



marantz[®]

AV Surround Receiver

SR6004

SR5004

User Guide



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 APPLIANCE TO RAIN OR MOISTURE.

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

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

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

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

NOTE:

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

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

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

IMPORTANT SAFETY INSTRUCTIONS

READ BEFORE OPERATING EQUIPMENT

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



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

Additional Safety Information!

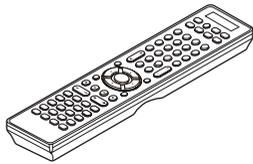
- This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
- When the switch is in the OFF position, the apparatus isn't completely switched-off from the MAINS.
- The equipment shall be installed near the power supply so that the power supply is easily accessible.
- Do not expose the unit to excessive heat such as direct sunlight, fire or the like.

Thank you for choosing the Marantz product. Please read this User Guide thoroughly to ensure proper operation and installation before using this product. After reading this User Guide, be sure to keep this for your future reference.

ACCESSORIES CHECK

Before use, check the below accessories were included in the package.

- Remote controller 1



RC007SR (SR6004 only)
RC008SR (SR5004 only)

- AAA-size batteries 2



- AC power cable 1
- AM loop antenna 1
- FM antenna 1
- Microphone 1
- Wireless receiver RX101 (SR6004 only) 1
- User guide 1
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FEATURES

Dolby Pro Logic IIz

This unit comes with a Dolby Pro Logic IIz decoder, which has the dimension of vertical expressiveness added to the existing horizontal sound field through the use of front height speakers.

HD Audio decoder

This unit incorporates a high-sound-quality HD audio decoder that employs a 32-bit digital signal processor (DSP) and 192 kHz/24-bit D/A converter. In addition to conventional digital surround, it faithfully reproduces content in the latest formats provided by Blu-ray discs and other such media.

- Dolby True HD
- Dolby Digital Plus
- DTS-HD (Master Audio, Hi-Resolution Audio)

Audyssey MultEQ®

Audyssey MultEQ is a room equalization solution that calibrates any audio system so that it can achieve optimum performance for every listener in a large listening area. Based on several room measurements, MultEQ® calculate an equalization solution that corrects for both time and frequency response problems in the listening area and also performs a fully automated surround system setup.

Audyssey Dynamic EQ™

Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Audyssey Dynamic EQ works in tandem with Audyssey MultEQ to provide well-balanced sound for every listener at any volume level.

Audyssey Dynamic Volume™

Audyssey Dynamic Volume solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies. Audyssey Dynamic EQ is integrated into Audyssey Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression, and dialog clarity remain the same.

High-power 7-channel amplifier

The unit features a high-power, wide-range discrete amplifier that brings the same high level of performance to all the channels and is backed by a powerful power supply consisting of a large-sized power transformer and capacitors boasting an impressively high capacitance. Regardless of whether movies or music is to be reproduced, this amplifier packs outstanding speaker drive capability.

HDMI

The unit has HDMI input and output terminals that support the following functions.

- Deep Color
 - Dolby True HD
 - DTS-HD Master Audio
 - SACD
 - DVD-Audio
- SR6004 enables two outputs to be selected so that users can switch between a TV set and projector, for instance, and use the output signals of the selected component.

Video converter

The unit contains a video converter that features digital processing to provide not only up-conversion from video/S-Video → component → HDMI but down-conversion from component → video as well.

Video scaler

The video scaler has a high-precision 10-bit scaler IC chip. It is capable of up-scaling 480i, 480p, 720p or 1080i signals input to the analog video terminals to signals up to the 1080p/60 format and outputting them to HDMI.

I/P converter

The unit has a high-performance interlace/progressive (I/P) converter. Its role is to provide accurate I/P conversion at high speed for 480i composite, S-Video or component video signals supplied to the unit, and to output high-quality and smooth 480p images to the unit's component video output terminals.

GUI

This unit uses the Graphical User Interface in the setup menu. Setup using eye-pleasing 3D graphics is possible using the speaker setup or acoustic equalizer setup menu.

M-XPort (Marantz-eXtension Port)

The unit has the M-XPort, a Marantz original innovation, which boasts excellent expandability. Accompanying SR6004 is the RX101 wireless receiver, which can be used as a receiver for Bluetooth audio and infrared remote controller. Users who have purchased the model SR5004 can purchase the RX101, which is available as an optional accessory, and connect it.

USB terminal (SR6004 only)

iPods of the fifth and later generations as well as the iPod nano, iPod classic, iPod touch and iPhone can be connected to the USB terminal on the SR6004. Since the sound from the iPod is transmitted digitally (using linear pulse code modulation (LPCM) encoding), it can be reproduced with high sound quality through the SR6004.

By connecting a USB medium, it is also possible to reproduce content that has been recorded in MP3, AAC, WMA or WAV format.

M-DAX (Marantz-Dynamic Audio eXpander)

The M-DAX function, a Marantz original innovation, which compensates for components in the high frequency range that have been lost in MP3, AAC or other contents by lossy compression, is provided.

Learning remote controller with backlight

SR6004 comes with the RC007SR learning remote controller with LCD display and easy-to-operate macro function. SR5004 comes with the RC008SR learning remote controller.

Both of these controllers have a backlight so they can be used even when the indoor lighting has been dimmed or turned off.

Multi-ZONE function

The unit is equipped with ZONE A OUT terminals for use in two rooms in addition to the main ZONE. The SR6004 also has a video selector function for selecting component video signals in ZONE A.

Other features

- Assignable Digital/Video/HDMI inputs
- Auto input signal detection
- Function rename
- Assignable DC trigger output
- IR flasher input
- RS232C terminal for future upgrade or system control
- HDCD decoder
- Dolby headphone
- Night mode
- Bi-amp drive
- Source/Pure direct mode
- 9bands,7channels G-EQ
- Video off mode
- Auto Lipsync(Audio Delay)
- Improvement station name input,60presets
- Sirius/XM Satellite radio ready

BEFORE USE

EQUIPMENT MAINS WORKING SETTING

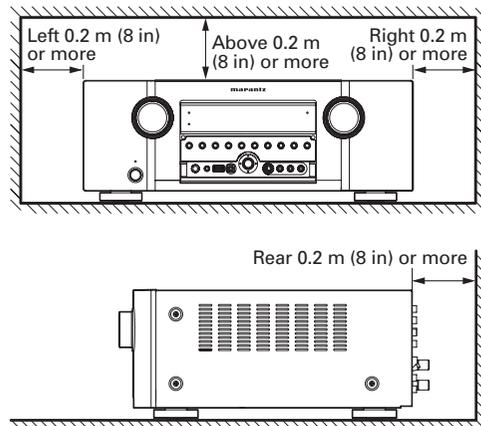
Your Marantz product has been prepared to comply with the household power and safety requirements that exist in your area.
This unit can be powered by 120V AC only.

DO NOT LOCATE IN THE FOLLOWING PLACES

To ensure long-lasting use, do not locate the unit where:

- Exposed to direct sunlight.
- Near to sources of heat such as heaters.
- Highly humid or poorly ventilated.
- Dusty.
- Subjected to mechanical vibrations.
- On wobbly, inclined or otherwise unstable surfaces
- Near windows where there is a chance of exposure to rain, etc.
- On top of an amplifier or other component which dissipates a great deal of heat

To ensure proper heat radiation, ensure the below clearance from walls and other equipment.



KEEP OBJECTS OFF

Keep objects off the unit. Blocking the vent can result in accident and damage.

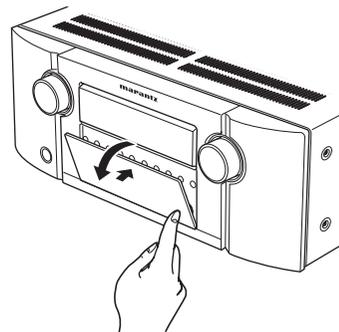


DO NOT TOUCH HOT AREAS, ESPECIALLY AROUND THE "HOT SURFACE MARK" DURING AND IMMEDIATELY AFTER USE

During and immediately after use, this product is hot in areas other than the controls and rear panel connection jacks. Do not touch hot areas, especially around the "hot surface mark" and the top panel. Contact with hot areas can cause burns.

OPENING AND CLOSING THE FRONT PANEL DOOR (SR6004 ONLY)

When you want to use the controls behind the front panel door, open the door by gently pressing on the lower part of the panel. Keep the door closed when not using these controls.



Caution

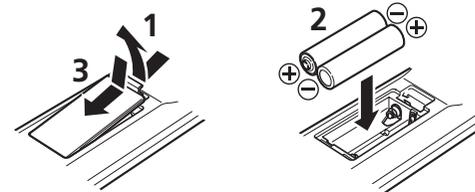
- Be careful not to pinch your fingers between the door and the panel.

USAGE OF REMOTE CONTROLLER

LOADING BATTERIES

Before using the remote controller for the first time, load the batteries in the remote controller. The batteries provided are used to verify the operations of the remote controller only.

1. Remove the battery cover.
2. Paying close attention to polarity indicators (+ plus and - minus), be sure to insert batteries correctly and as indicated.
3. Return the battery cover to its original position.



CAUTIONS ON HANDLING BATTERIES

Misusing batteries can lead to fire, injury or soiling of surrounding area as a result of leakage, rupture or corrosion.

Carefully read the following precautions before using batteries.

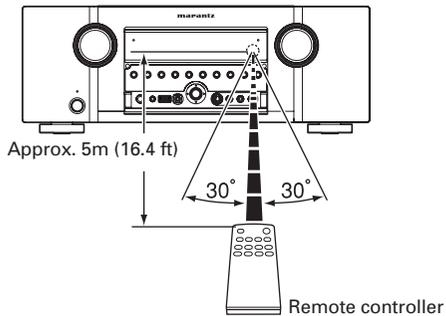
- Insert the batteries while ensuring that their ⊕ and ⊖ poles are properly aligned with the corresponding markings on the remote controller.
- Batteries of the same size and shape may have different voltages. Do not use any battery except the type indicated. Do not use old and new batteries together, and do not use different types of batteries together.
- Do not recharge batteries.
- Keep batteries out of the reach of children. Seek medical attention if accidentally ingested.
- Do not carry or store batteries together with metal ball point pens, necklaces, coins, hair pins, etc.
- If you will not be using the remote controller for an extended time (1 month or more), remove the batteries to prevent leakage. If batteries leak, do not touch the fluid with bare hands. Wipe away any fluid in the case and put in new batteries. When doing so, handle with care, because fluid on skin or clothing presents a burn risk. If you accidentally get fluid on your skin, immediately wash with water and seek medical attention.
- Do not heat or take apart batteries or put them in flame or water.

- When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.
- Do not expose the batteries to excessive heat such as direct sunlight, fire or the like.

BEFORE USE

REMOTE CONTROL

Operate the remote controller within a distance of approx. 16.4 ft from the infrared receptor window on the front of the unit.



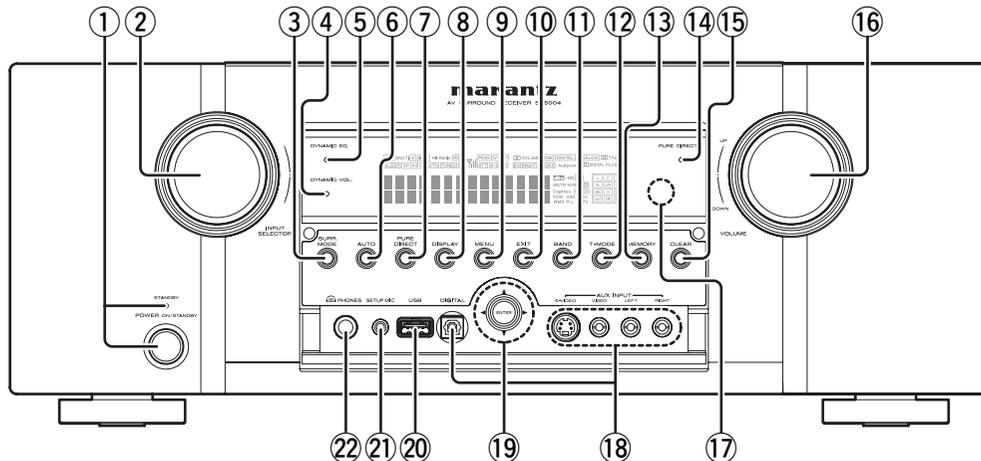
Caution

- Do not allow direct sunlight, an inverter fluorescent light or other strong source of light to shine onto the player's infrared receptor window. Otherwise, the operation of the remote controller may be disabled.
- Bear in mind that operating the remote controller may cause other devices operated by infrared rays to be operated by mistake.
- The remote controller cannot be operated if the space between the controller and the player's infrared receptor window is obstructed.
- Do not place any objects on top of the remote controller. Doing so may cause one or more buttons to be held down which will cause the batteries to run down.

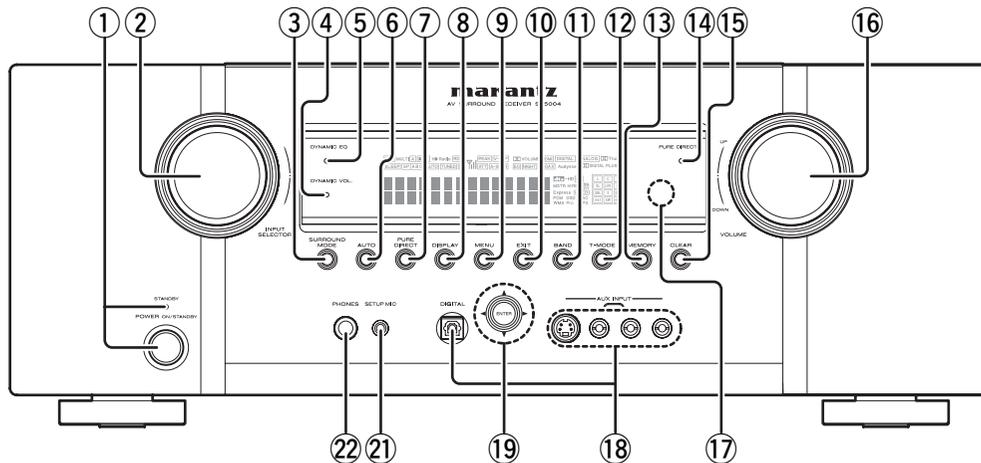
NAMES AND FUNCTION

FRONT PANEL

SR6004



SR5004



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 INPUT SELECTOR knob

This knob is used to select the input sources. (See page 16)

③ SURR. MODE button

Press this button to select the surround mode.

④ DYNAMIC VOL. indicator

This indicator illuminates while the Audyssey Dynamic Volume™ is in use.

⑤ DYNAMIC EQ. indicator

This indicator illuminates while the Audyssey Dynamic EQ™ is in use.

⑥ AUTO button

Press this button to select the AUTO mode from the surround modes. When this mode is selected, the unit determines the surround mode corresponding to a digital input signal automatically.

⑦ PURE DIRECT button

Press this button to select the pure direct mode or source direct mode.

⑧ DISPLAY button

Press this button to change the FL display mode.

9 MENU button

Press this button to enter the SETUP MAIN MENU.

10 EXIT button

Press this button to exit from the SETUP MAIN MENU.

11 BAND button

Press this button to switch between FM and AM in the TUNER mode.

12 T.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 17)

13 MEMORY button

Press this button to enter the tuner preset memory numbers or station names. (See page 45)

14 PURE DIRECT indicator

This indicator illuminates when PURE DIRECT mode has been selected.

15 CLEAR button

Press this button to cancel the station-memory setting mode or preset scan tuning. (See page 46)

16 VOLUME control knob

This knob is used to adjust the overall sound level. Turning the control clockwise increases the sound level.

17 Infrared receiving sensor window

This window receives infrared signals for the remote controller.

18 AUX INPUT jacks

These auxiliary video/audio input jacks accept the connections of a camcorder, portable DVD, game etc.

Note

VIDEO terminal and S-VIDEO terminal cannot be used at the same time. When using S-VIDEO terminal, do not connect any component to the VIDEO terminal.

19 Cursor (▲, ▼, ◀, ▶) / ENTER button

Press these buttons to operate the SETUP MAIN MENU and TUNER function.

20 USB connector (SR6004)

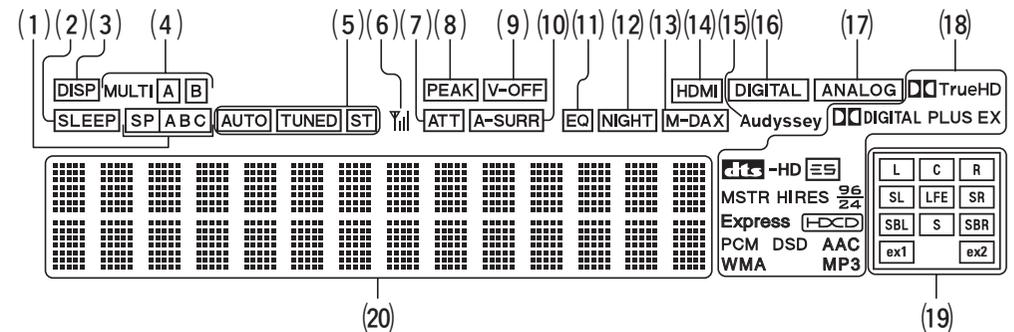
Connect USB media or iPod to this USB connector. (See page 19, 57)

21 SETUP MIC jack

Automatically measure speaker characteristics using the included microphone. (See page 28)

22 PHONES jack

This jack may be used to listen to the unit's output through a pair of headphones. Be certain that the headphones have a standard 1/4" stereo phono plug.

FL DISPLAY AND INDICATOR**(1) SP (speaker) ABC indicator**

This indicator is illuminated when the speaker system is active.

(2) SLEEP timer indicator

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

(3) DISP (Display Off) indicator

This indicator is illuminated when this unit is in the display off mode.

(4) MULTI (ZONE system) AB indicator

This indicator is illuminated when the ZONE system is active.

(5) TUNER's indicators

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

TUNED : This indicator illuminates when the tuner receives a sufficiently strong radio signal.

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

(6) Yil (Signal strength) indicator

This indicator indicates the strength of the XM Satellite Radio or SIRIUS Satellite Radio signal that is received.

(7) ATT (Attenuation) indicator

This indicator is illuminated when the attenuation function is active.

(8) 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 controller. (See page 8, 42)

(9) V-OFF (Video off mode) indicator

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

(10) A-SURR (Auto Surround mode) indicator

This indicator is illuminated when the AUTO SURROUND mode is in use.

(11) EQ mode indicator

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

(12) NIGHT mode indicator

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

(13) M-DAX indicator

This indicator illuminates when this unit is in the M-DAX mode.

(14) HDMI indicator

This indicator is illuminated when the HDMI device is connected to the unit.

NAMES AND FUNCTION

(15) Audyssey® indicator

This indicator is illuminated when the EQ MODE is selected to "AUDYSSEY", "AUDYSSEY FRONT" or "AUDYSSEY FLAT".

(16) DIGITAL input indicator

This indicator is illuminated when a digital input has been selected.

(17) ANALOG input indicator

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

(18) Signal format indicators

TrueHD

This indicator is illuminated when a Dolby Digital True HD signal is input.

DIGITAL

This indicator is illuminated when a Dolby Digital signal is input.

DIGITAL PLUS

This indicator is illuminated when a Dolby Digital Plus signal is input.

DIGITAL EX

This indicator is illuminated when a Dolby Digital EX signal is input.

dts

This indicator is illuminated when a DTS signal is input.

dts ES

This indicator is illuminated when a DTS ES signal is input.

dts-HD MSTR

This indicator is illuminated when a DTS-HD Master Audio signal is input.

dts-HD HIRES

This indicator is illuminated when a DTS-HD High Resolution Audio signal is input.

dts 96/24

This indicator is illuminated when a DTS 96/24 signal is input.

Express

This indicator is illuminated when a DTS Express signal input.

HDCD

This indicator is illuminated when the HDCD signal is decoded from digital input signal.

PCM

This indicator is illuminated when the input signal is PCM (pulse code modulation).

DSD

This indicator is illuminated when a DSD signal is input.

AAC

This indicator lights when AAC format files on the USB media are played back.

WMA

This indicator lights when WMA format files on the USB media are played back.

MP3

This indicator lights when MP3 format files on the USB media are played back.

(19) Encoded channel status indicators

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

If the 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 illuminated.

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

If the digital input signal is 7.1 channel PCM-audio, "L", "C", "R", "SL", "SBL", "SR", "SBR", and "LFE" will be illuminated.

If the digital input signal includes a channel other than those above, "ex1" or "ex2" will be illuminated. (See page 83)

Note

When the unit is decoding Dolby TrueHD, the input signal status displayed depends on the number of channels of the speakers used.

If a 7.1-channel signal is supplied for a 5.1-channel speaker system (L/C/R/SL/SR/SW), the "SBL", "SBR", "S" indicator is not illuminated.

(20) 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.

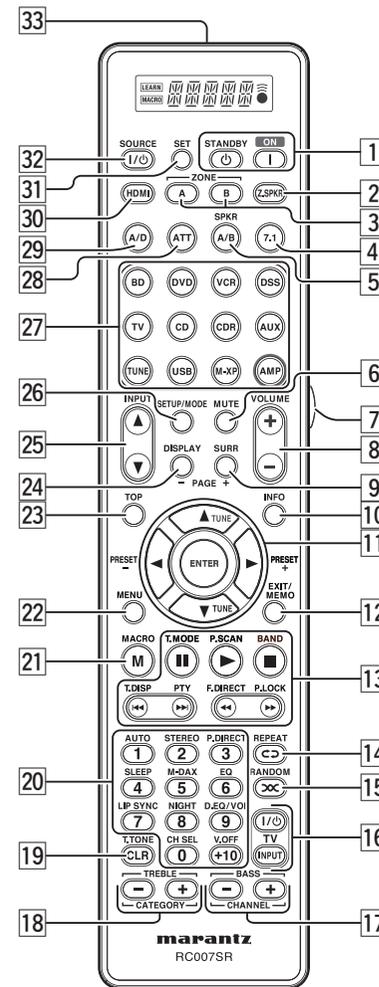
REMOTE CONTROLLER

The provided remote controller is a universal remote controller. The POWER button, numeric buttons and control buttons are used in common across different input source components.

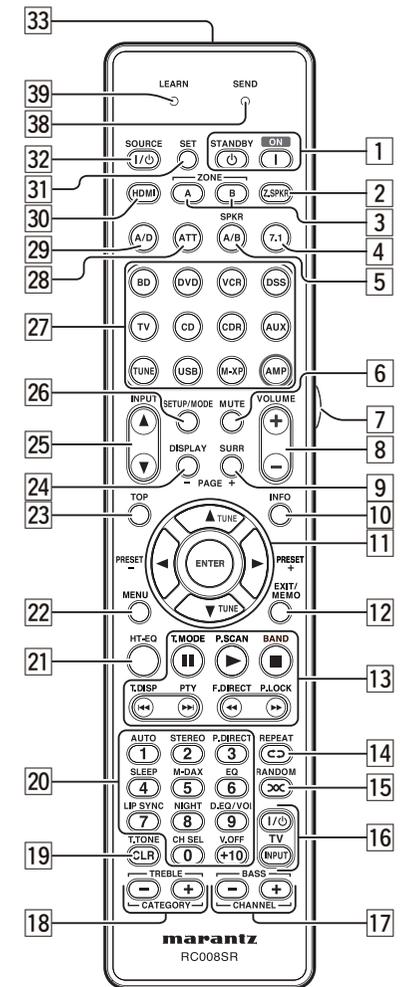
The input source controlled with the remote controller changes when one of the input selector buttons is pressed.

The RC007SR remote controller is provided with SR6004, and the RC008SR is provided with SR5004.

SR6004



SR5004



NAMES AND FUNCTION

1 I / ⏻ POWER ON and OFF buttons**(When AMP mode is selected)**

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

2 Z.SPKR button**(When AMP mode is selected)**

This button is used to turn on and off ZONE speaker.

3 ZONE A / B buttons

These button are used to turn the ZONE system on or off.

4 7.1 (7.1CH IN) button

This button is used to select the output of an external multi channel decoder.

5 SPKR A/B button

This button is used to select the speaker system. The speaker system is switched in the following sequence.

A → B → A+B → off → A

6 MUTE button

This button is used to mute the audio for the amplifier.

7 LIGHT button

This button is used to turn on the backlight for the buttons.

8 VOLUME +/- buttons

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

9 SURR (SURROUND) button**(When a mode other than USB is selected)**

This button is used to selects the surround mode.

(When USB mode is selected)

This button is used to select the next page.

10 INFO button**(When AMP mode is selected)**

When this button is pressed, the current setting of AV receiver are displayed on the connected TV monitor.

(When USB mode is selected)

The display is switched between the list screen and status screen during iPod operations.

11 ◀, ▶, ▲, ▼ (CURSOR) / ENTER buttons

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

(When Tuner mode mode is selected)**PRESET +/- PRESET - buttons**

Used to select a preset station up and down.

TUNE ▲ /TUNE ▼ buttons

Used to tune a frequency station up and down.

12 EXIT / MEMO button**(When AMP mode is selected)**

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

(When TUNER mode is selected)

This button is used to store the setting of preset channel and others.

13 CONTROL buttons

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

(When TUNER mode is selected)**T.MODE button**

This button is used to select auto stereo mode or mono mode when the FM band is selected. The "AUTO" indicator lights in the auto stereo mode.

P.SCAN button

This button is used to start preset scan.

BAND button

This button is used to select a radio band.

T.DISP button

This button is used to select the display mode in XM Satellite Radio and SIRIUS Satellite Radio.

PTY button

These button is not used for this unit.

F.DIRECT button

This button is used to select the "Frequency direct input".

P.LOCK button

This button selects the parental lock of SIRIUS Satellite Radio.

(When USB mode is selected)**|| button**

This pauses playback.

▶ button

This starts playback.

■ button

This stops playback.

◀◀ / ▶▶ buttons

Skips forward or previous.

◀◀ / ▶▶ buttons

Searches forward or backward.

14 REPEAT button

This button is used to select the REPEAT mode of a source.

15 RANDOM button

This button is used to select the RANDOM mode of a source.

16 TV CONTROL buttons

These buttons are used when operating of TV and Monitor.

17 BASS /TV CH +/- buttons**(When AMP mode is selected)**

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

(When TV/DSS mode are selected)

These buttons are used to change channels.

18 TREBLE / CAT +/- buttons**(When AMP mode is selected)**

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

19 CLR (Clear) / T.TONE button

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

(When AMP mode is selected)

This button is used to enter the test tone menu.

20 Numeric buttons

These buttons are used to switch between 0 to +10 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/AUTO button**

This button is used to select auto surround.

2/STEREO button

This button is used to select STEREO mode.

3/P.DIRECT button

When this button is pressed once, SOURCE DIRECT mode is selected.

If pressed again, PURE DIRECT mode is selected.

4/SLEEP button

This button is used for setting the sleep timer.

5/M-DAX button

This button is used to select M-DAX mode.

6/EQ button

This button is used to select EQ modes including Audyssey® (see page 38).

7/LIP SYNC button

This button is used to select LIP SYNC mode.

NAMES AND FUNCTION

8/NIGHT button

Pressing this button prevents the Dolby Digital signal from playback at a loud voice. When this button is pressed, the "NIGHT" indicator is illuminated.

9/D.EQ/VOL button

This button is used to select Audyssey Dynamic EQ/Dynamic Volume modes.

0/CH SEL button

This button is used to call up CH LEVEL ADJUST and adjust speaker levels or 7.1 ch input level.

+10/V.OFF button

This button is used to turn off the video signal.

21 M (MACRO) button (SR6004)

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

HT-EQ button (SR5004)

This button is used to turn on or off HT (Home Theater)-EQ mode.

22 MENU button

(When AMP mode is selected)

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

(When USB mode is selected)

Pressing this button during iPod operation moves you to higher-level page.

23 TOP button

(When AMP mode is selected)

Pressing this button during setup returns you to the top screen of the setup main menu.

(When USB mode is selected)

Pressing this button displays the highest-level item.

24 DISPLAY button

(When a mode other than USB is selected)

This button is used to select the display mode for the front display of the unit.

(When USB mode is selected)

This button is used to select the previous page.

25 INPUT ▲ button

This button is for forward-feeding the input source to select a desired source.

INPUT ▼ button

This button is for backward-feeding the input source to select a desired source.

26 SETUP/MODE button

This button is used to setup for DVD and other device.

(When USB mode is selected)

This button is used to switch between direct/remote mode during iPod operation.

27 SOURCE button

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

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

Notes

- Select the AMP as the source to use this remote controller with the unit.
- In the case of SR5004, the USB button cannot be used.

28 ATT button

When the input signal is too high and the voice distorts even by throttling the unit VOLUME control, turn on this function.

"ATT" is indicated when this function is activated. The input level reduced. Attenuator is invalid for the output signal of "REC OUT".

Note

This function is unavailable while the digital input is selected.

29 A/D button

This button is used to switch between the analog and digital inputs.

30 HDMI button (SR6004)

This button is used to select HDMI OUTPUT 1 or 2.

31 SET button

This button is used to enter learn mode and preset mode.

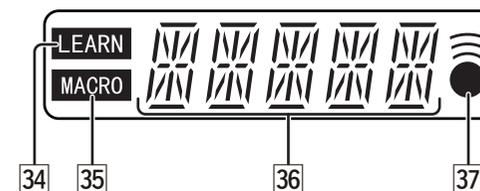
32 I / ⏻ SOURCE ON/OFF button

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

33 Infrared transmitter and learning sensor

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

SR6004



34 LEARN indicator

This indicator is displayed when the remote controller is in the LEARN mode.

35 MACRO indicator

This is displayed when a macro program is selected by the remote controller.

36 Information indicator

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

37 ̳ indicator

This indicator is displayed when the remote controller is transmitting a signal.

SR5004

38 SEND indicator

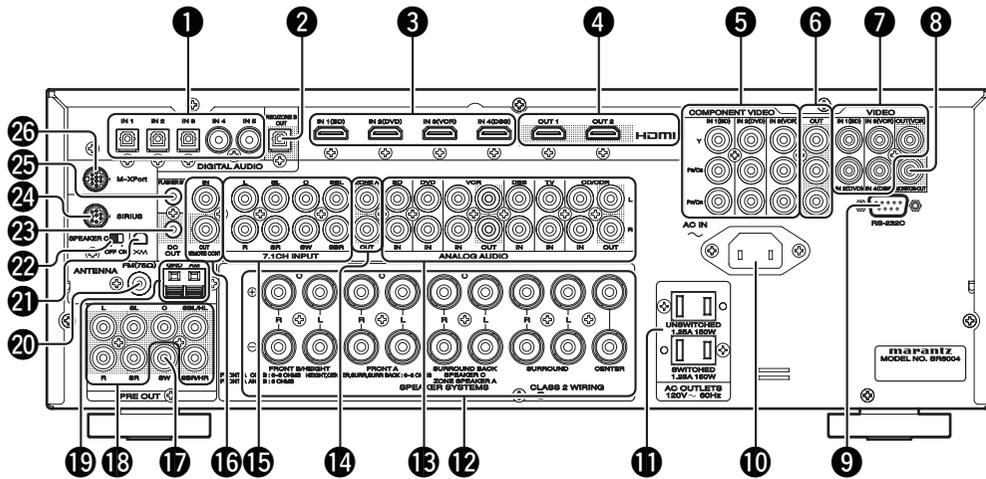
Indicates when the remote controller is transmitting a signal.

39 LEARN indicator

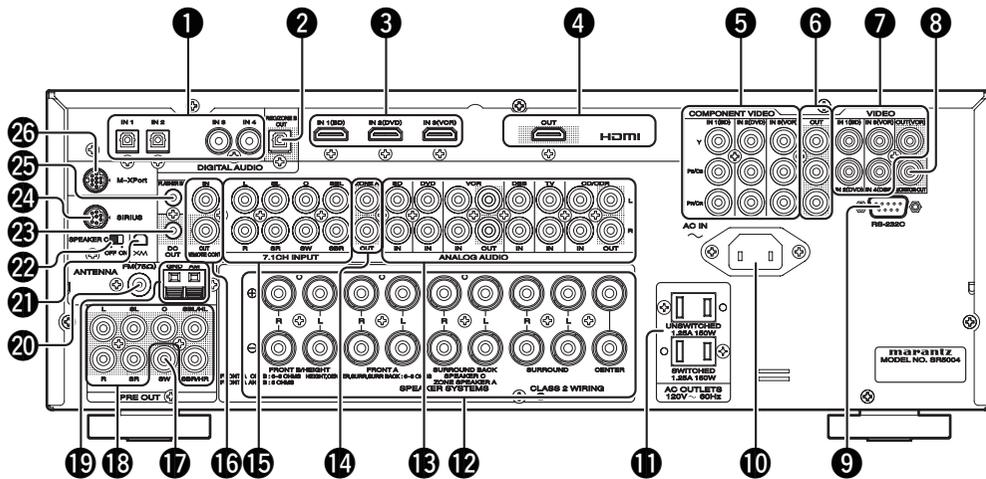
Indicates when the remote controller is in the LEARN mode.

REAR PANEL

SR6004



SR5004



1 DIGITAL AUDIO IN terminals (Optical and Coaxial)

Connect these terminals to the digital signal output terminal(s) of the digital component (such as DVD player, CD player or DSS system).

2 DIGITAL AUDIO REC / ZONE B OUT terminal (Optical)

Connect this terminal to the digital signal input terminal(s) of the digital recording component (such as a CD recorder) or another AV amplifier. (Page 21)

3 HDMI IN terminals

Connect these terminals to a Blu-ray disc player or DVD player equipped with an HDMI output terminal(s). (Page 14)

4 HDMI OUT terminals

Connect these terminals to a TV set or projector equipped with an HDMI input terminal(s). (Page 14)

5 COMPONENT VIDEO IN terminals

Connect these terminals to a video component equipped with component video output terminal(s). (Page 13)

6 COMPONENT VIDEO OUT terminals

Connect these terminals to a monitor TV or projector equipped with component video input terminal(s). (Page 13)

7 VIDEO IN / OUT terminals

Connect these terminals to the video terminal(s) of a video component. (Page 13)

8 VIDEO MONITOR OUT terminal

Connect this terminal to the video input terminal(s) of a monitor TV or projector. (Page 13)

9 RS-232C terminal

The RS-232C port is to be used in conjunction with an external controller to control the operation of the unit by using an external device.

10 AC IN

Plug the supplied power cable into this AC INLET and then into the power outlet on the wall.

11 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 unit 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 unit 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.

Note

When ZONE A or ZONE B is on, power will also be supplied to the AC outlets on the SWITCHED side in the same manner as the UNSWITCHED side, regardless of whether the unit is turned on or in standby mode.

Caution

- In order to avoid potential turn-off thumps, anything plugged into this outlet should be powered up before this unit is turned on.
- The capacity of this AC outlet is 150W. Do not connect devices that consume electricity more than the capacity of this outlet. If the total power consumption of the connected devices exceeds the capacity, the protection circuit shuts down the power supply.

12 Speaker outputs terminals

Connect the speakers to these terminals. (Page 11)

13 ANALOG AUDIO IN/OUT terminals

Connect these terminals to the audio terminal(s) of an audio or video component. (Page 13)

14 ZONE A OUT terminals

These are the audio output jacks for the ZONE A. Connect these jacks to optional audio power amplifiers to listen the source selected by the ZONE system in a remote room. (Page 21)

15 7.1 CH INPUT terminals

By connecting a DVD Audio player, Super Audio CD multichannel player, or other components that has a multichannel port, you can playback the audio with 5.1 channel or 7.1 channel outputs. (Page 20)

16 REMOTE CONT. IN/OUT terminals

Connect to a Marantz component equipped with remote control (RC-5) terminals. (Page 22)

NAMES AND FUNCTION

17 SW terminal

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. (Page 20)

18 PRE OUT terminals

Use these jacks for connection to external power amplifiers. (Page 20)

19 AM antenna and ground terminals

Connect the supplied AM loop antenna. (Page 15)

20 FM antenna terminal (75 ohms)

Connect an external FM antenna with a coaxial cable, or a cable network FM source. (Page 15)

21 XM terminal

Connect to the XM Mini-Tuner and Home Dock. (See page 23)

22 SPEAKER C selector switch

Set this switch to ON when using speaker C. Set it to OFF when using surround back speakers, height speakers or ZONE speaker A. (Page 19)

23 DC OUT terminal

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

24 SIRIUS terminal

Connect to the SiriusConnect™ Home Tuner. (See page 23)

25 FLASHER IN terminal

These terminals are to control the unit from each ZONE. Connect the control signal from a Keypad, etc.

26 M-XPport terminal

Connect the Marantz wireless receiver RX101 to this terminal. (Page 19)

BASIC CONNECTIONS

SPEAKER PLACEMENT

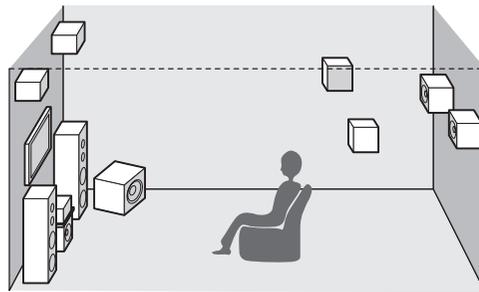
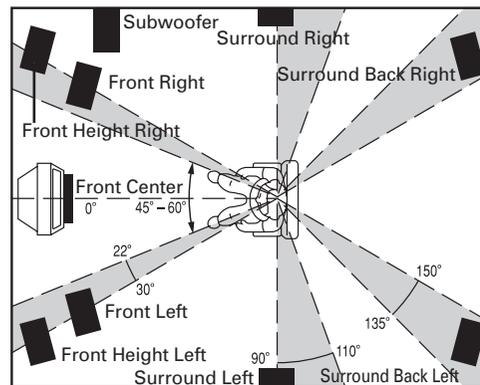
The ideal surround speaker system for this unit is 9-speaker systems, using front left and right speakers, a center speaker, surround left and right speakers, a surround back left and right speakers, a subwoofer and front height left and right speakers.

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 back 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 this unit 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 subwoofer to have maximum bass effect. As the subwoofer only handle low frequency. You can place it any where in the room.

FRONT HEIGHT LEFT AND RIGHT SPEAKERS

These speakers are required to reproduce Dolby Pro Logic IIz sound.

They enhance the sound effects that create a 3-dimensional space.

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.

Note

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

SURROUND LEFT AND RIGHT SPEAKERS, AND SURROUND BACK SPEAKER

Place the surround left, right and surround back speakers higher than your ears by about 70cm-1m (2.3 - 3.3 ft). Also place the speakers at the same height, as best as possible.

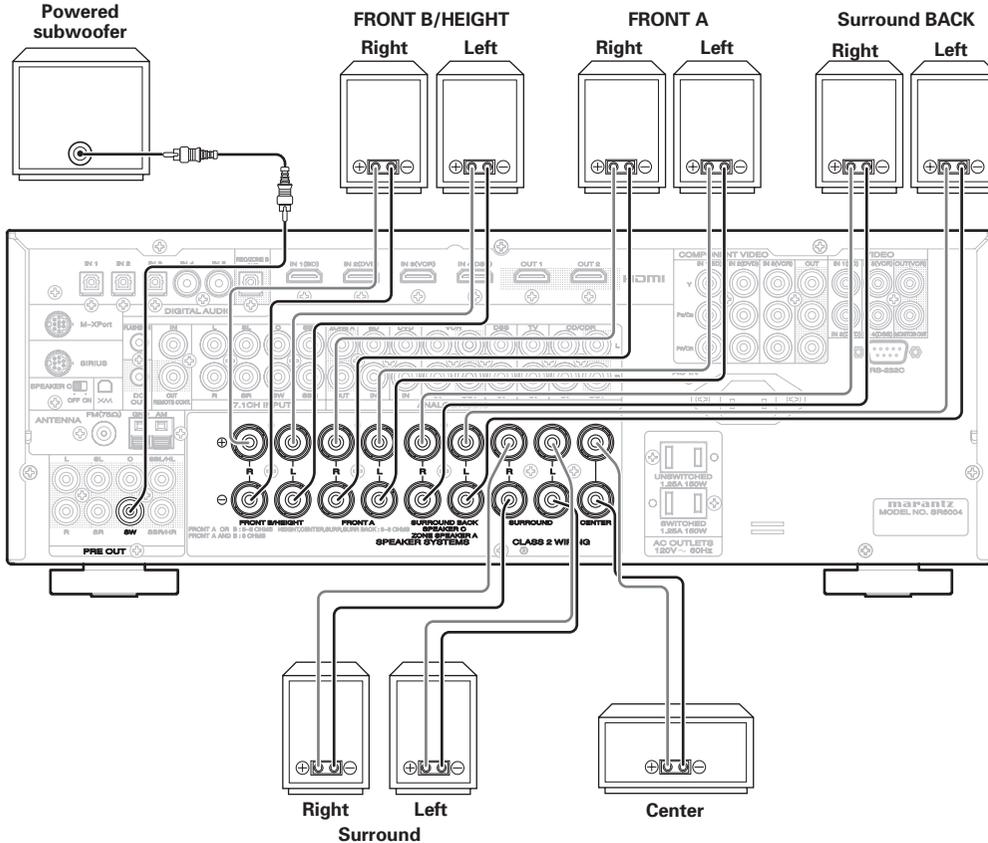
FRONT HEIGHT LEFT AND RIGHT SPEAKERS

Position these speakers 1 m (3.3 ft.) higher than the front left and right speakers.

They may be placed at an angle that is wider than the front speakers but, ideally, should be placed at the same angle as the front speakers and higher than them.

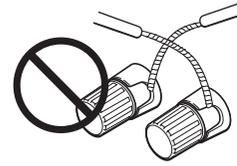
CONNECTING SPEAKERS

- Be sure to use speakers with the specified impedance as shown on the rear panel of this unit.
- When the subwoofer you are connecting is a powered subwoofer (i.e., has a built-in amp), connect it to the PRE OUT subwoofer jack.



Notes

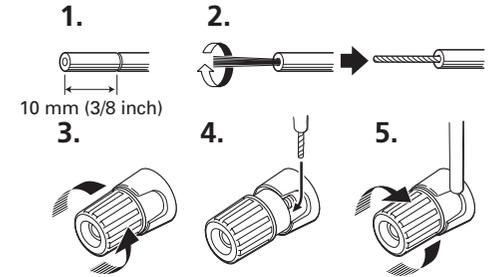
- To prevent damage to circuitry, do not let the bare speaker wires touch each other and do not let them touch any metal part of this unit.



- 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.
- 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 SPEAKER WIRE

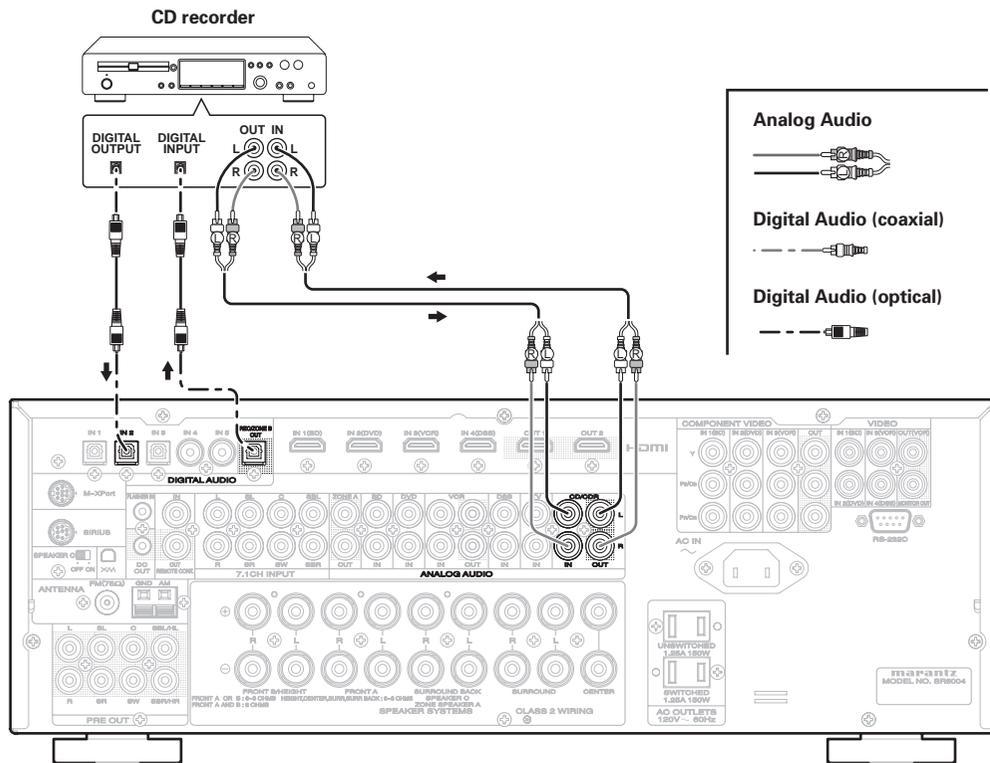
1. Strip away approx. 10 mm (3/8 inch) of wire insulation.
2. Twist the bared wire ends tight, to prevent short circuits.
3. Loosen the knob by turning it counterclockwise.
4. Insert the bare part of the wire into the hole in side of each terminal.
5. Tighten the knob by turning it clockwise to secure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



BASIC CONNECTIONS

CONNECTING AUDIO COMPONENTS

The output audio signal from the CD/CDR OUT jack is the same signal which is currently selected.



CONNECTING DIGITAL AUDIO COMPONENTS

- Refer to the instructions for each component. To setup the digital audio format of CD player, or other digital source's connected to digital input jacks.
- Use fiber optical cables (optical) for optical input jacks and REC/ZONE B optical output jack. Use 75 ohms coaxial cables (for digital audio or video) for coaxial input jacks.
- You can designate the input for each digital input/output jacks according to your component. (See page 25)

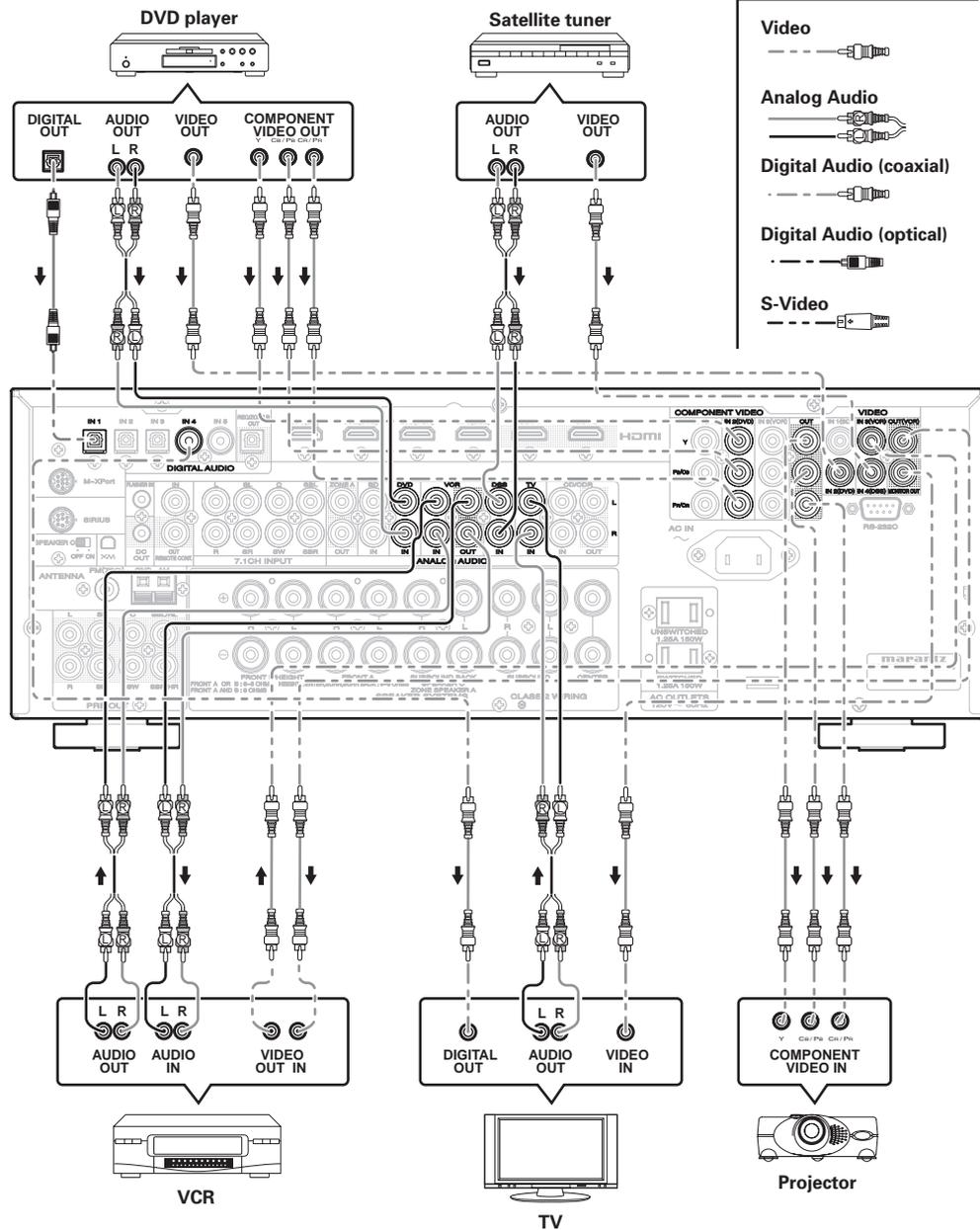
Notes

- *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.*

Notes

- *Do not connect this unit and other components to mains power until all connections between components have been completed.*
- *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 cables and speaker cables this will result in generating a hum or other noise.*

CONNECTING VIDEO COMPONENTS



VIDEO, S-VIDEO, COMPONENT JACKS

VIDEO JACK

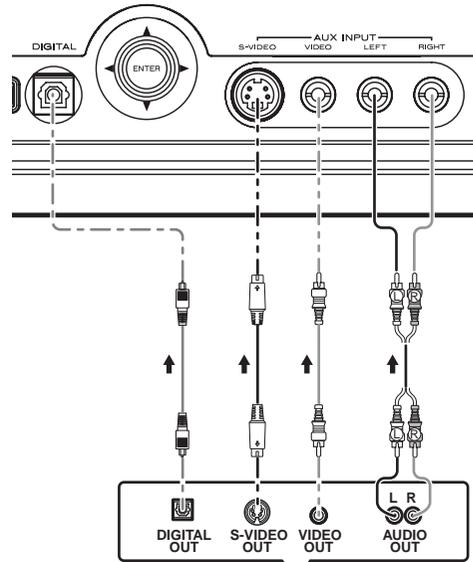
The video signal for the VIDEO jacks is the conventional composite video signal.

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 unit to the monitor.

S-VIDEO JACK

The video signal is separated into luminance (Y) and color (C) signals for the S-VIDEO jack.



Camcorder, portable DVD, Game etc.

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 the L (left) channel.
- Be sure to connect the inputs and outputs of the video signals properly.
- 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.
- The unit has a video conversion function. For details on the input and output of the video signals, refer to page 44.
- The AUX VIDEO terminal and S-VIDEO terminal cannot be used at the same time. When using the S-VIDEO terminal, do not connect any component to the VIDEO terminal.

BASIC CONNECTIONS

CONNECTING HDMI COMPONENTS

HDMI JACKS

It can send digital video and audio signals from BDs and other sources directly to a display. It minimizes signal degradation caused by analog conversion so that high quality images can be enjoyed.

This unit is also capable of converting analog video signals (Composite Video, S-Video, Component Video) for HDMI output. Select an input source from the GUI menu system. (See page 25)

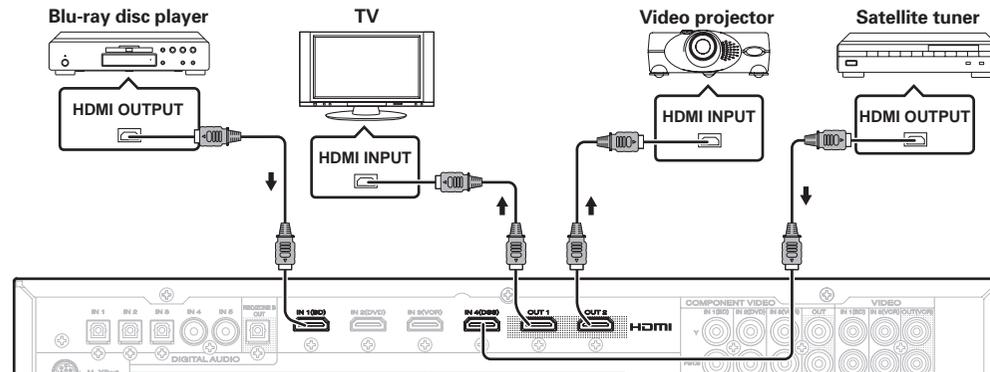
Users can change the allocations made to the unit's HDMI input terminals using the functions. For details, refer to page 25.

Notes

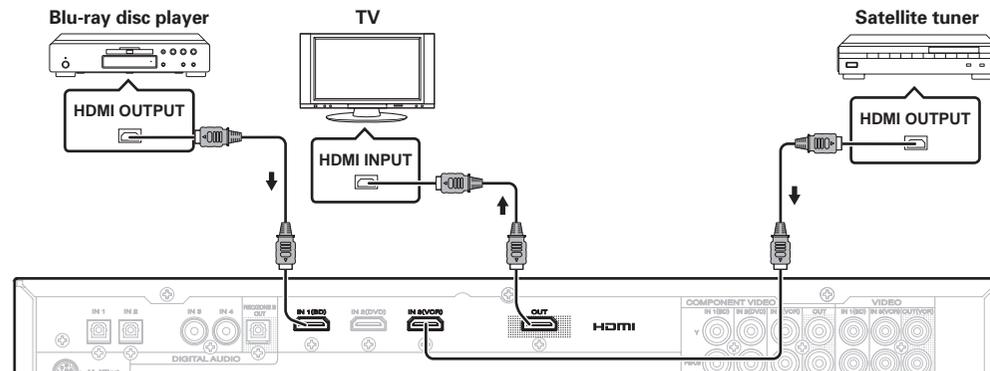
- When the HDMI output is connected to a display monitor that does not support HDCP*, signals are not output. To view images in HDMI, it is necessary to connect to a display that supports HDCP.
- There may be no image output if connected to a TV or display that is not compatible with the above format.
- Refer to the instruction manual of the TV or display to be connected to the unit for detailed information regarding the HDMI terminal.

* **HDCP: High-bandwidth Digital Content Protection system**

SR6004



SR5004



CONNECTING HDMI COMPONENTS

An HDMI cable (sold separately) is used to connect the HDMI jack on the unit with the HDMI jack on the Blu-ray disc player, TV, projector or other component. To transmit multichannel audio via HDMI, the connected player must support multichannel audio transmission through its HDMI jack.

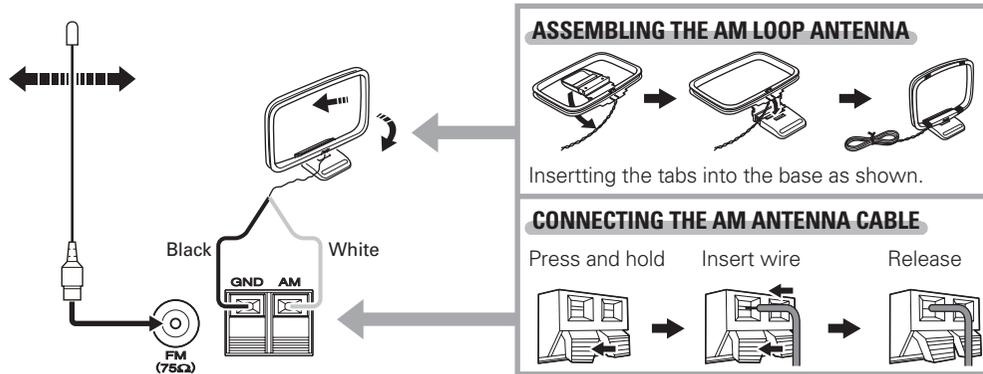
Notes

- Some HDMI components can be controlled over the HDMI cable, but this unit cannot control other components this way.
- Some source devices such as DVD players or set top box do not support HDMI repeater operations like those of the unit. In such case, pictures are not properly projected on monitors such as TVs and projectors.
- When multiple components are connected to this unit, turn power to unused components off to prevent interference between them.
- Disconnecting or connecting cables with the power on can damage the equipment. Turn the power off before disconnecting or connecting cables.
- The unit has HDMI input and output terminals that support the following functions.
 - Deep Color
 - Dolby True HD
 - DTS-HD Master Audio
 - SACD
 - DVD-Audio
- Multi channel PCM signals and audio signals of 64 kHz or higher that are input from the HDMI jack are not output from the DIGITAL OUT jack.
- Depending on the quality of the cable used, the HDMI signal may be affected by noise.
- The unit does not support HDMI control. However, it is possible to connect the unit between components that do support HDMI control and exercise control by passing the HDMI control signals through the unit. (HDMI control through function)
The HDMI OUT2 terminal of SR6004 does not support the HDMI control through function. When using the HDMI control through function, use the HDMI OUT1 terminal. All the HDMI input terminals support the HDMI control through function.
“HDMI control” is a function for exercising mutual control between components using CEC (Consumer Electronics Control) as stipulated by the HDMI standard. By connecting components using HDMI cables, linked operations can be performed between the components.

CONNECTING THE ANTENNAS

CONNECTING THE SUPPLIED ANTENNAS

The supplied antennas are for indoor use only.

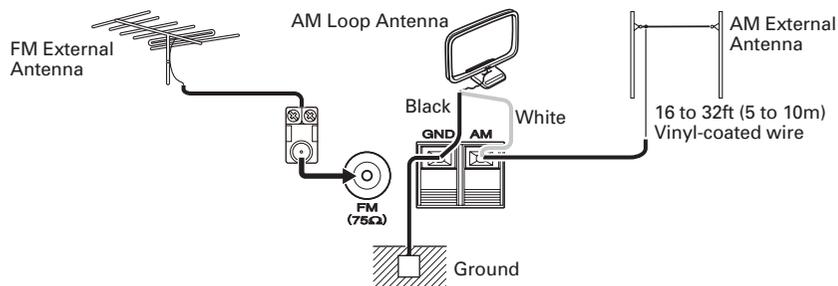


Notes

- During use, extend the FM antenna and move it in various directions until the clearest sound is received. Fix it with push pins or similar implements in that cause the least amount of distortion.
- Set 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 cable.

CONNECTING AN OUTDOOR ANTENNAS

If you experience poor reception quality, an outdoor antenna may improve the quality. Keep the antenna from noise sources (neon signes, busy roads, power lines, transformers, etc)

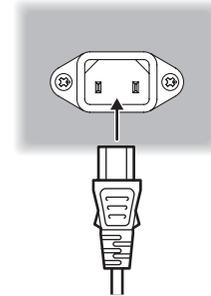


Notes

- Do not remove the AM loop antenna.
- Do not connect the supplied FM antenna.
- The terminal marked "GND" on this unit is not for safety grounding.

CONNECTING THE AC POWER CABLE

1. Plug the supplied AC power cable to the AC IN socket on the rear panel of the unit.



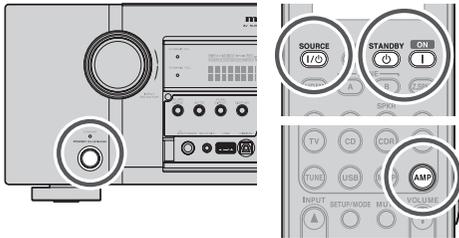
2. Plug the power cable into an AC outlet.

BASIC OPERATION

AMP OPERATION

The unit shown in the illustrations is SR6004.

TURNING ON THE UNIT



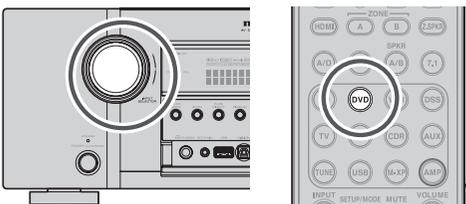
1. Turn the power of the equipment connected to this unit on.
2. Press the **POWER ON/STANDBY** button of this unit. Every time the button is pressed, the power to this unit toggles between on and standby.

To activate power using the remote controller, press the **AMP** button, followed by the **ON** button and **SOURCE ON/OFF** button of the remote controller.

SELECTING AN INPUT SOURCE

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

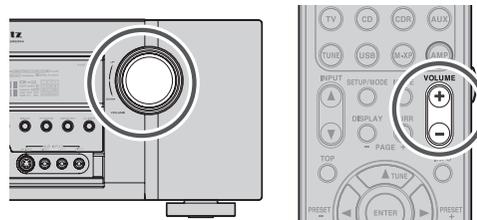
EXAMPLE : DVD



To select DVD, turn the **INPUT SELECTOR** knob on the front panel or press the **DVD** button on the remote controller two times in a row. 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.
- If you use the **FUNCTION RENAME** feature (see page 26), the renamed name appears on the display.
- As the input is changed, this unit 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 a video source is selected, the selected video signal is output from the **MONITOR OUT** terminal.

ADJUSTING THE MAIN VOLUME

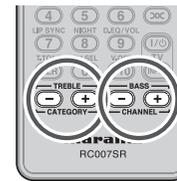


Adjust the volume to a comfortable level using the **VOLUME** control knob on the front panel or **VOLUME + / -** buttons on the remote controller. To increase the volume, turn the **VOLUME** knob clockwise or press **VOLUME +** button on the remote controller, to decrease the volume, turn counterclockwise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

Notes

- The volume can be adjusted within the range of $-\infty$ and -71 to 18 dB, in steps of 1 dB.
- However, when the channel level is set as described on page 32, 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 remote controller)

To adjust the tone, press the **AMP** button.

To adjust the bass effect, press **BASS +** or **BASS -** button.

To adjust the treble effect, **TREBLE +** or **TREBLE -** button.

Notes

The tone control function cannot be used in any of the modes listed below.

- Source Direct
- Pure Direct
- 7.1 ch Input
- Dolby Virtual Speaker
- Dolby Headphone
- Dolby True HD
- Dolby Digital Plus
- DTS-HD and 176.4/192 kHz PCM
- Acoustic EQ
- M-DAX

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 remote controller.

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.

TUNER OPERATION

To operate the unit from the remote controller, press the **TUNE** button on the remote controller so that the tuner mode is engaged.
The unit shown in the illustrations is SR6004.

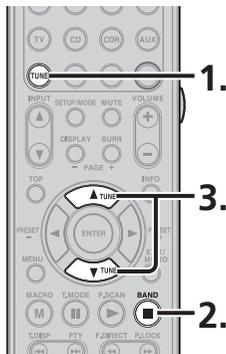
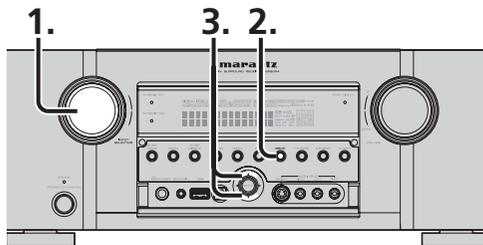
LISTENING TO THE TUNER

Frequency scan step for AM is selectable. Default setup is 10 kHz step, if your country's standard is 9 kHz step, Press **BAND** button on the front panel or **BAND** button on the remote controller more than 5 seconds. Scan step will change.

Note

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

AUTO TUNING



(Using the unit)

1. Turn the **INPUT SELECTOR** knob to select "TUNER".

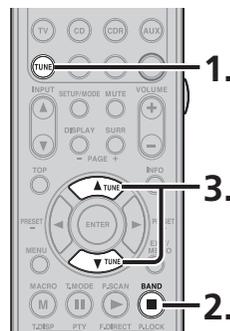
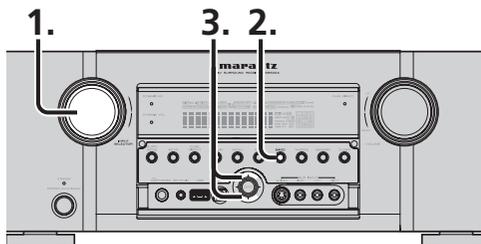
2. Press the **BAND** button to select either FM or AM.
3. Press the **▲** or **▼** cursor buttons on the front Panel for more than 1 second to start the auto tuning function.
4. Automatic searching begins then stops when a station is tuned in.

(Using the remote controller)

1. To select tuner, Press the **TUNE** button twice within two second on the remote controller.
2. Press the **BAND** button to select either FM or AM.
3. Press and hold the **TUNE ▲** or **▼** 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



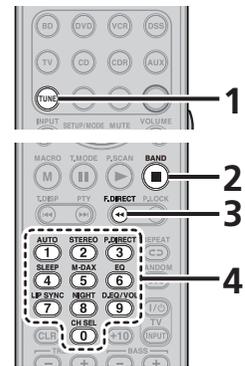
(Using the unit)

1. Turn the **INPUT SELECTOR** knob to select "TUNER".
2. Press the **BAND** button to select either FM or AM.
3. Press the **▲** or **▼** cursor buttons on the front Panel to select the desired station.

(Using the remote controller)

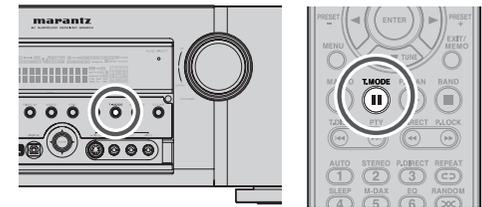
1. To select tuner, press the **TUNE** button twice within two seconds on the remote controller.
2. Press the **BAND** button to select either FM or AM.
3. Press the **TUNE ▲** or **▼** button to tune in the deseired station.

DIRECT FREQUENCY CALL



1. To select tuner, press the **TUNE** button twice within two seconds on the remote controller.
2. Press the **BAND** button to select either FM or AM.
3. Press the **F.DIRECT** on the remote controller, display will show "FREQ----".
4. Input your desired station's, frequency with the ten numbered keypad on the remote controller.
5. The desired station will automatically be tuned.

(FM) TUNING MODE (AUTO STEREO OR MONO)



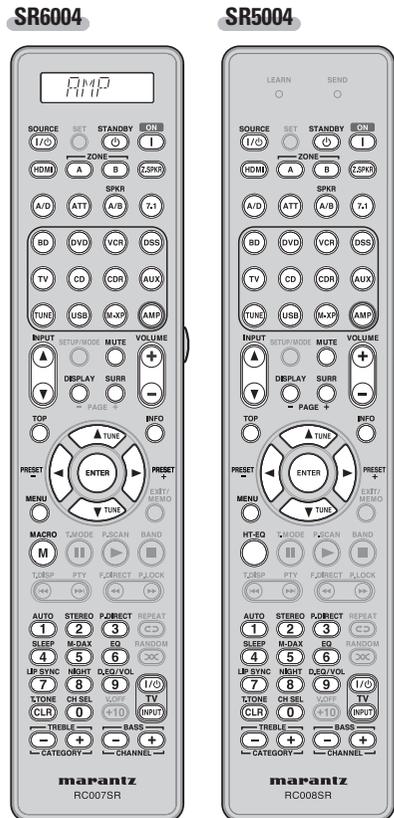
When in the auto stereo mode, "AUTO" indicator will be illuminated on the display. The "ST" indicator is illuminated when a stereo broadcast is tuned in. At open frequencies, the noise is muted and the "TUNED" and "ST" indicators are not illuminated. If the signal is weak, it may be difficult to tune into the station in stereo. In such a case, Press the **T.MODE** button on the front panel or **T.MODE** button on the remote controller. "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 **T.MODE** button on the front panel or **T.MODE** button on the remote controller again. "AUTO" indicator is illuminated the display.

BASIC OPERATION

REMOTE CONTROLLER OPERATION

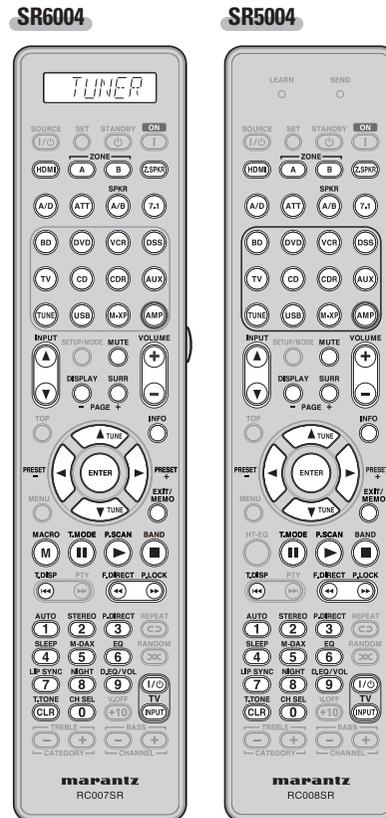
To control the unit by your remote controller, you have to select the device AMP or TUNER by pressing the SOURCE button. Please refer below for the details in AMP or TUNER mode.

AMP MODE



SOURCE ON/OFF	Turns the SR5004/6004 on and off
POWER OFF	Turns the SR5004/6004 off
POWER ON	Turns the SR5004/6004 on
HDMI	Switches between HDMI 1 and 2 outputs (SR6004 only)
ZONE A/B	Turns on or off ZONE A or ZONE B
Z.SPKR	Turns on or off ZONE SPEAKER A
A/D	Switches between the analog and digital inputs
ATT	Reduces the input level
SPKR A/B	Selects the speaker system
7.1	Selects the 7.1CH IN
SOURCE	Selects a particular source component
AMP	Selects AMP mode of remote unit
INPUT ▲ / ▼	Changes the input selector of SR5004/6004
DISPLAY	Changes the front display mode
MUTE	Decreases the sound temporarily
SURR	Selects the surround mode
VOLUME +/-	Adjusts the over all sound level
TOP	Back to the TOP of "SETUP MENU"
INFO	Displays the current setting on the monitor
CURSOR	Moves the cursor for setting in "SETUP MENU" mode
ENTER	Confirms the setting in "SETUP MENU" mode
MENU	Enters the "SETUP MENU"
EXIT	Exits from "SETUP MENU"
MACRO(M)	Selects the MACRO mode
(RC007SR only)	
HT-EQ	Turns on or off HT-EQ mode
(RC008SR only)	
AUTO(1)	Selects auto surround
STEREO(2)	Selects STEREO mode
P.DIRECT(3)	Selects the pure direct mode
SLEEP(4)	Sets the sleep timer function
M-DAX(5)	Selects the M-DAX mode
EQ(6)	Selects the EQ mode
LIP SYNC(7)	Selects the LIP SYNC mode
NIGHT(8)	Turns on or off NIGHT mode
D.EQ/VOL(9)	Selects Audyssey Dynamic EQ™ and Audyssey Dynamic Volume™ modes
T.TONE(CLR)	Enters the test tone menu
CH SEL(0)	Calls up CH LEVEL ADJUST and adjusts speaker levels or 7.1ch input level
V.OFF(+10)	Turns on or off video output
TV POWER	Turns the TV on and off
TV INPUT	Selects the TV video input
TREBLE +/-	Adjusts the tone control of high frequency sound
BASS +/-	Adjusts the tone control of low frequency sound

TUNER MODE



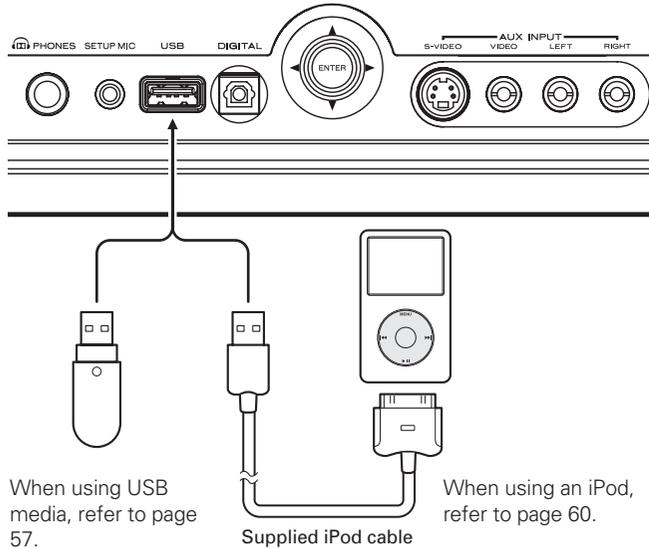
ZONE A/B	AMP function enabled
Z.SPKR	AMP function enabled
A/D	AMP function enabled
ATT	AMP function enabled
SPKR A/B	AMP function enabled
7.1	AMP function enabled
SOURCE	AMP function enabled
AMP	AMP function enabled
INPUT ▲ / ▼	AMP function enabled
DISPLAY	AMP function enabled
MUTE	AMP function enabled
SURR	AMP function enabled
VOLUME +/-	AMP function enabled
INFO	Shows preset information
TUNE ▲ / ▼	Tunes a frequency station up and down
PRESET + ► / - ◀	Selects a preset station up and down
EXIT/MEMO	Enters the tuner preset memory numbers
T.MODE	Selects the auto stereo mode or mono mode
P.SCAN	Starts preset scan
BAND	Selects a radio band
T.DISP	Selects the display mode in XM Satellite Radio and SIRIUS Satellite Radio
P.LOCK	Select the parental lock mode
F.DIRECT	Selects the "Frequency direct input"
0-9	Inputs the numeric
CLR	Clears the inputting
TV POWER	Turns the TV on and off
TV INPUT	Selects the TV video input

• Both RC007SR and RC008SR do not have the PRESET code library for this device.

ADVANCED CONNECTIONS

CONNECTING THE USB MEDIA/iPod (SR6004 ONLY)

Connect the USB media/iPod to the unit.



Note

Connect the USB media/iPod while in power off or when the input source is something other than USB. Connecting/disconnecting USB memory when the input source is USB and the power is on may damage the USB memory.

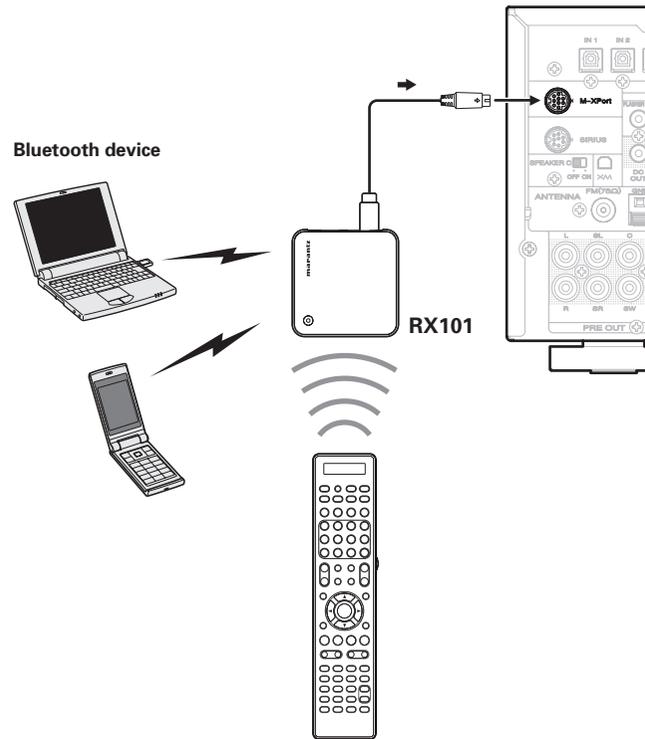
Caution

When the USB devices are used, do not use the USB extension cable.

CONNECTING THE WIRELESS RECEIVER

The unit allows the RX101 wireless receiver to be connected. Connect the RX101 to the M-XPort (Marantz-eXtension Port) of the unit.

- When using SR6004, connect the RX101 provided with the unit. When using an SR5004, purchase the RX101 available as an optional accessory, and connect it.
- For the installation and operating procedures, read the operating instructions that come with the RX101.



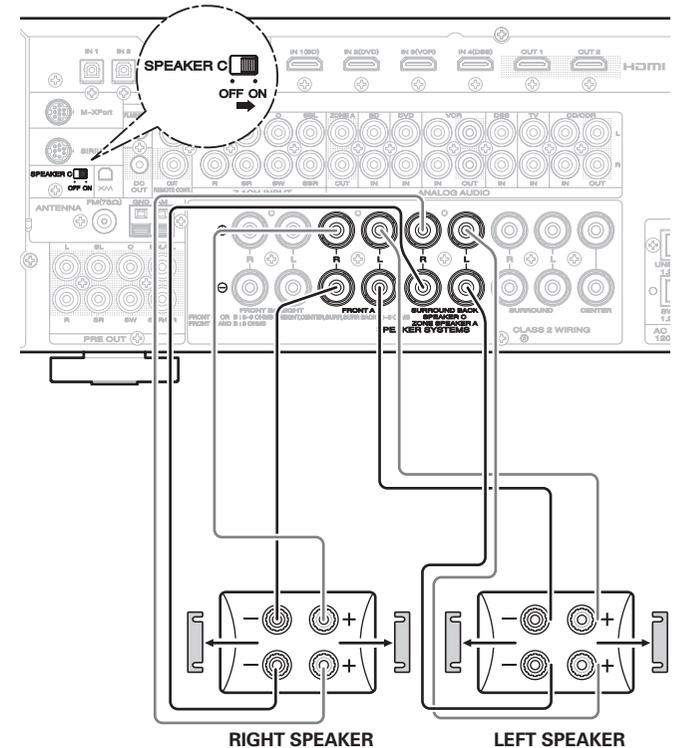
CONNECTING FOR SPEAKER C USE (BI-AMP CONNECTION)

A bi-amp connection is possible with speakers that have two sets of inputs (for treble and bass).

This allows you to drive the treble and bass units with separate channel amps, which enables better sound quality. Connect the speakers as shown in the figure. Set the SPEAKER C selector switch on the rear panel to ON.

Notes

- If incorrectly connected, a protective circuit in the unit will trip and set the unit to standby. (The STANDBY indicator will flash.) In such case, recheck the connections between the speakers and the unit.
- Turn power to the unit off before changing the setting of the SPEAKER C selector switch.
- Use speakers that support a bi-amp configuration.
- When connecting the speakers, be sure to remove their shorting bars.

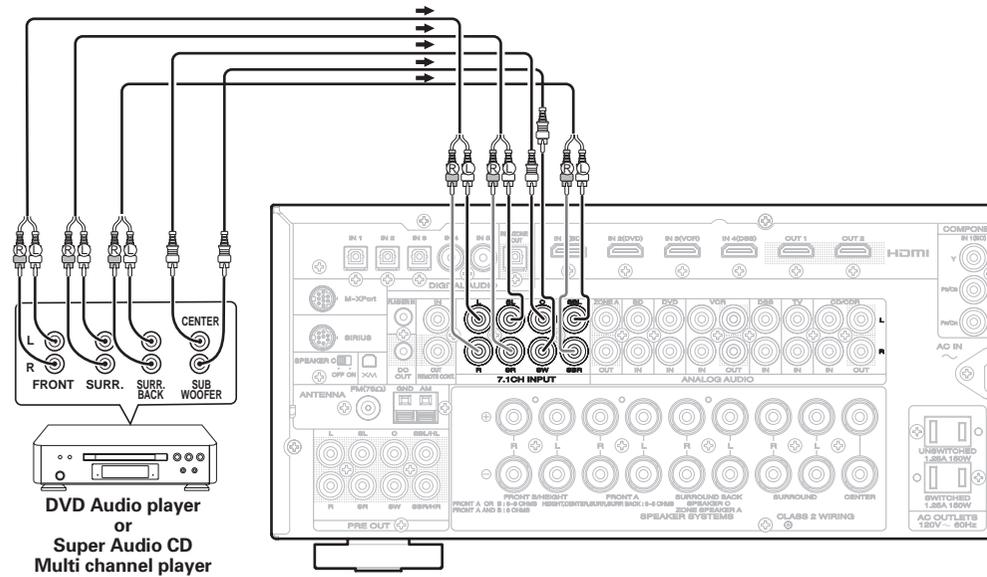


ADVANCED CONNECTIONS

CONNECTING MULTI CHANNEL AUDIO COMPONENTS

The 7.1CH INPUT jacks are for multichannel audio source such as the Super Audio CD 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 26.



CONNECTING AN EXTERNAL POWER AMPLIFIER

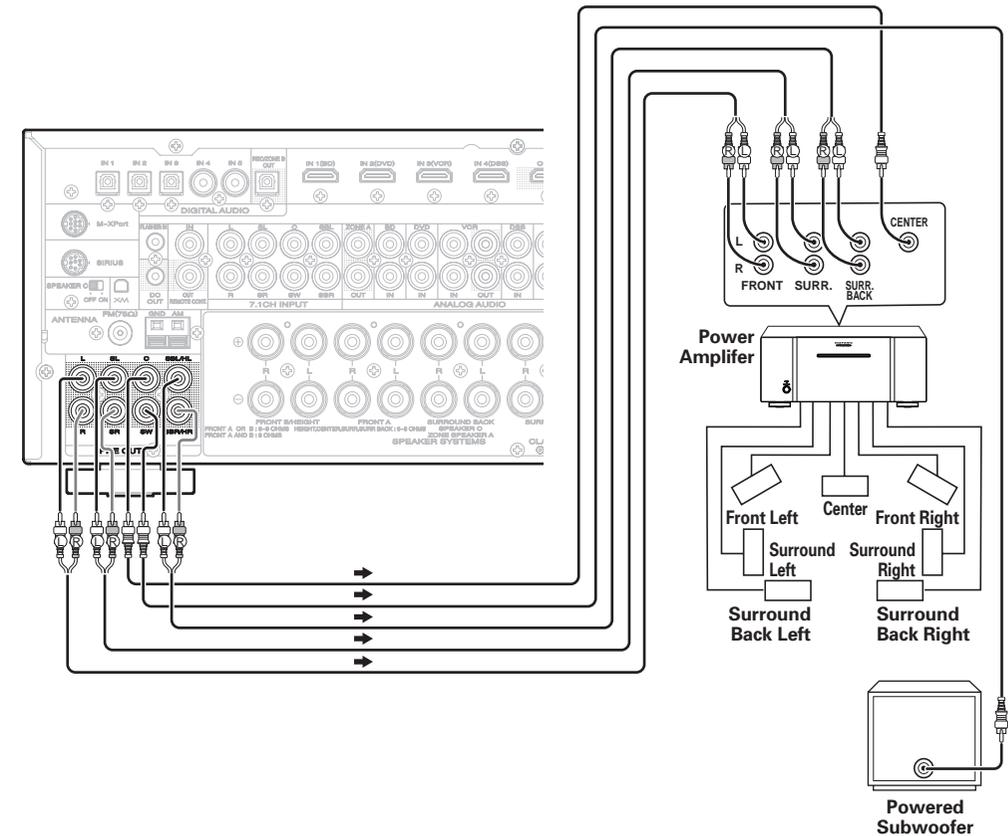
The PREOUT jacks are for connecting external power amplifier.

Be sure to connect each speaker to the corresponding external power amplifier.

Note

The unit's SBL/HL terminal and SBR/HR terminal serve as terminals for surround back speakers, front height speakers and ZONE speaker A.

The sound from either of the three kinds of speakers mentioned above will be output through these terminals.



NAMES AND FUNCTIONS

BASIC CONNECTIONS

BASIC OPERATION

ADVANCED CONNECTIONS

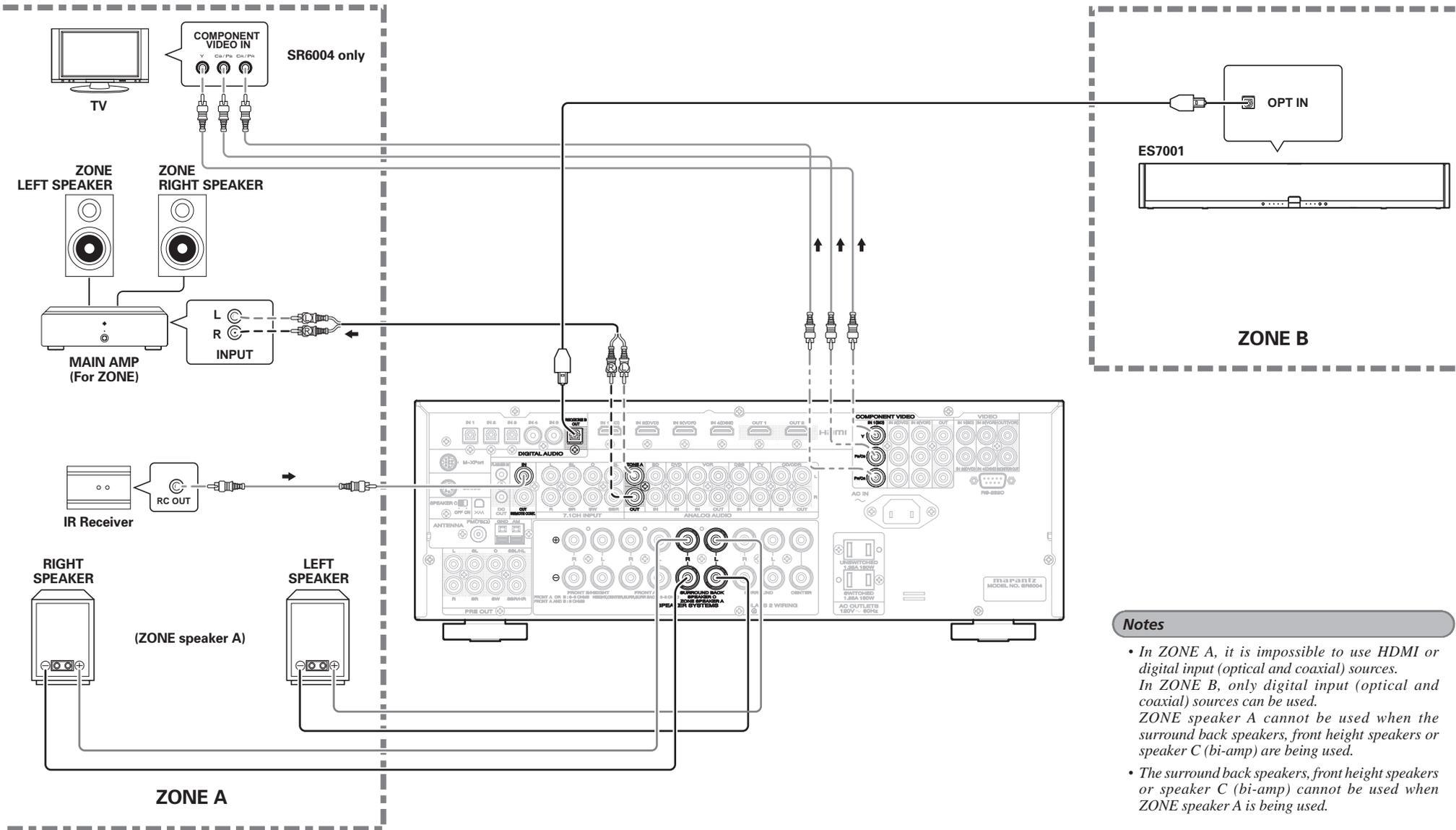
SETUP

ADVANCED OPERATION

TROUBLESHOOTING

OTHERS

CONNECTING FOR ANOTHER ZONE

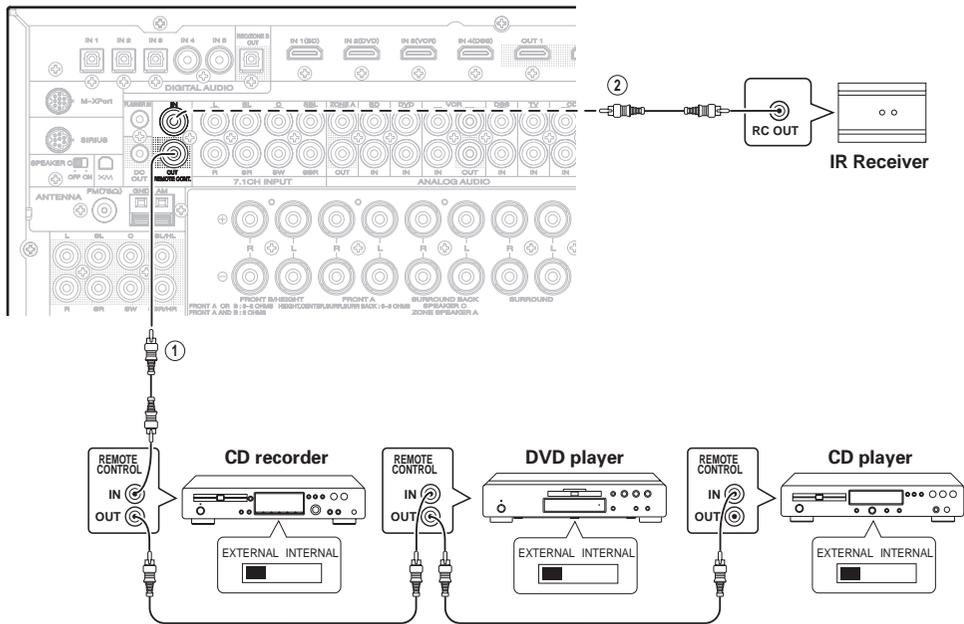


Notes

- In ZONE A, it is impossible to use HDMI or digital input (optical and coaxial) sources. In ZONE B, only digital input (optical and coaxial) sources can be used. ZONE speaker A cannot be used when the surround back speakers, front height speakers or speaker C (bi-amp) are being used.
- The surround back speakers, front height speakers or speaker C (bi-amp) cannot be used when ZONE speaker A is being used.

ADVANCED CONNECTIONS

CONNECTING THE REMOTE CONTROL JACKS



① You can control other Marantz products through this unit with the remote controller by connecting the REMOTE CONTROL terminals on each unit. The signal transmitted from the remote controller is received by the remote sensor on this unit. Then the signal is sent to the connected device through this terminal. Therefore you need to aim the remote control only at 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 back of other units (not the SR6004/SR5004) to "EXT." (EXTERNAL) to use this feature.

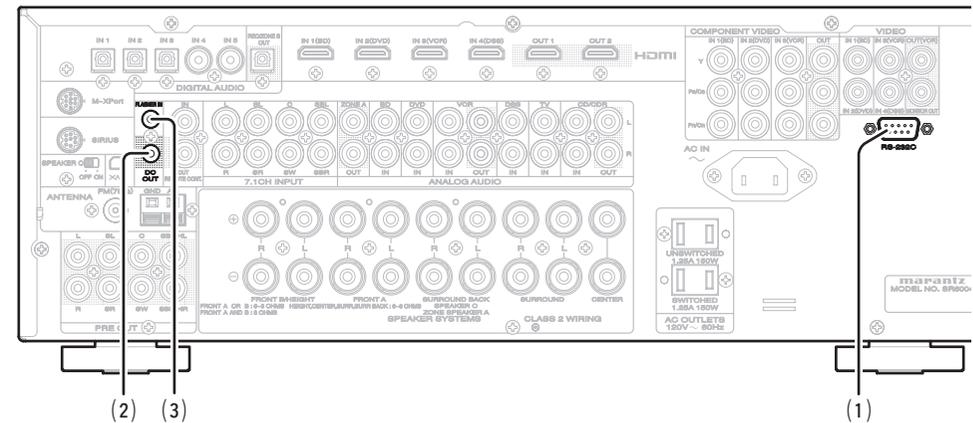
② Whenever external infrared sensors or similar devices are connected to REMOTE IN of the unit, be sure to always disable operation of the infrared sensor on the unit by using the following procedure.

1. Hold down the **SURROUND MODE** button and the **MENU** 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 **CURSOR** buttons (◀, ▶) to change this to "IR=DISABLE".
4. Press the **ENTER** button. Once this setting is made, the infrared sensor on the unit is disabled.

Note

- Be sure to set to "IR=ENABLE" when external infrared sensors or similar devices are not connected. Otherwise, the 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 OTHER EQUIPMENT

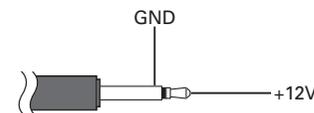


(1) RS-232C

Connect an external control device or other device for servicing. (Use a straight cable for the connection.)

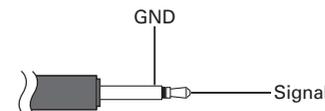
(2) DC OUT (DC TRIGGER)

External devices can be controlled from the unit by connecting them to the DC OUT terminal (12 V 44mA max).



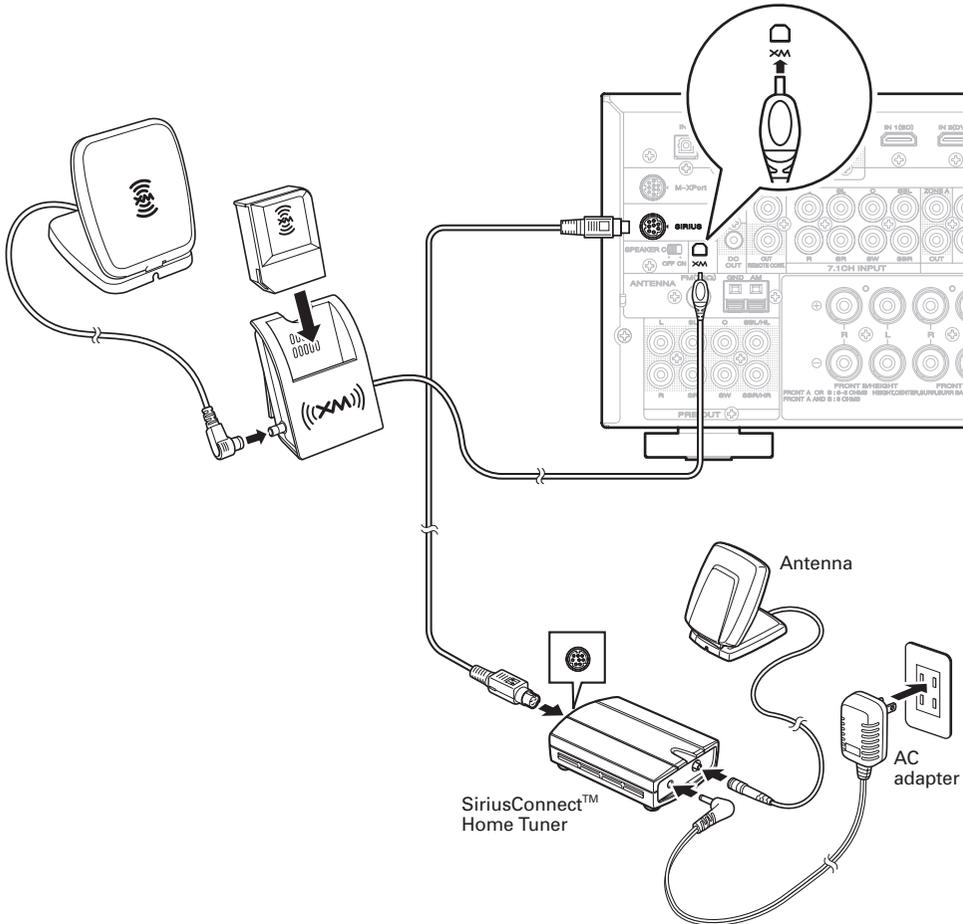
(3) FLASHER IN

This unit can be controlled by connecting a control box or other control device to this unit.



CONNECTING THE SATELLITE RADIO

Subscriptions are required in order to listen to both XM Satellite Radio and SIRIUS Satellite Radio. For details on XM Satellite Radio, see page 47. For details on SIRIUS Satellite Radio, see page 51.



XM SATELLITE RADIO

- Plug the XM Mini-Tuner and Home Dock into XM terminal on the rear panel.
- Position the XM antenna near a south-facing window to receive the best signal. When making connections, also refer to the operating instructions of the XM Mini-Tuner and Home Dock.

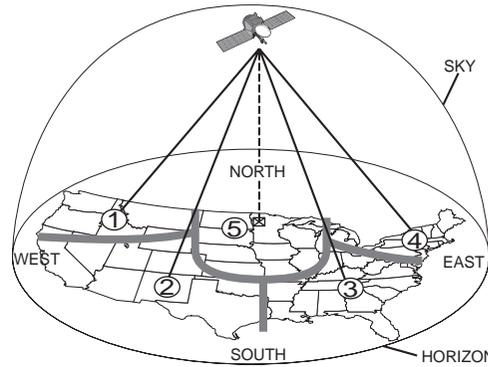
Note

This unit does not support the XM CNP-1000. See page 82.

SIRIUS SATELLITE RADIO

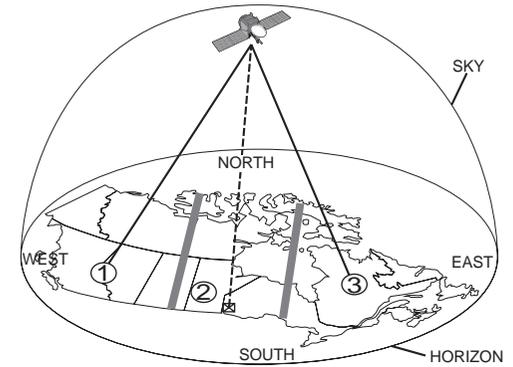
- Plug the SiriusConnect™ Home Tuner, Antenna and AC adapter into SIRIUS terminal on the rear panel.
- Position the SIRIUS antenna for a consistent satellite signal, the antenna must be positioned correctly. Use the following map to determine which area you are in and position the antenna accordingly.

(US)



AREA	ANTENNA AIMING DIRECTION
AREA 1	Aim the antenna EAST or NORTHEAST
AREA 2	Aim the antenna NORTH or NORTHEAST
AREA 3	Aim the antenna NORTH or NORTHWEST
AREA 4	Aim the antenna WEST or NORTHWEST
AREA 5	Aim the antenna STRAIGHT UP at the sky (may require outdoor placement)

(Canada)



AREA	ANTENNA AIMING DIRECTION
AREA 1	Aim the antenna EAST or SOUTHEAST
AREA 2	Aim the antenna SOUTH or STRAIGHT UP at the sky (may require outdoor placement)
AREA 3	Aim the antenna WEST or SOUTHWEST

SETUP

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

GRAPHICAL USER INTERFACE (GUI) MENU SYSTEM

This unit incorporates the graphical user interface menu system, which makes various operations possible by using the cursor (▲, ▼, ◀, ▶) and **ENTER** buttons on the remote controller or on the front panel.

Note

• To view the graphical user interface displays, make certain you have connected the **MONITOR OUT** jack on the rear panel to the composite, component video or HDMI input of your TV or projector. (See page 13, 14)

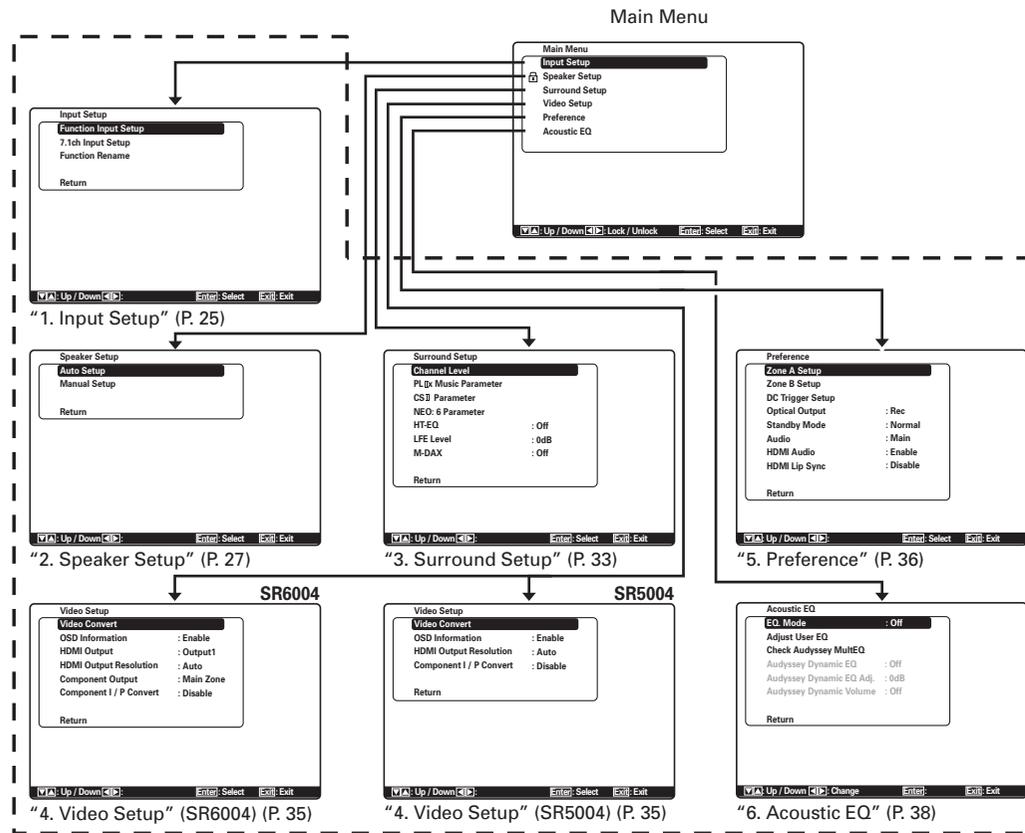
1. Press the **AMP** button on the remote controller. (This step is not needed when operating the setup menus from the unit.)
2. Press the **MENU** button on the remote controller or press the **MENU** button on the front panel. The "Main Menu" of the GUI menu system is displayed.
3. Select the desired sub-menu with the ▲ or ▼ cursor buttons and press the **ENTER** button. The display will change to the selected sub-menu.
There are 6 items in the "Main Menu".

LOCKING SUBMENUS

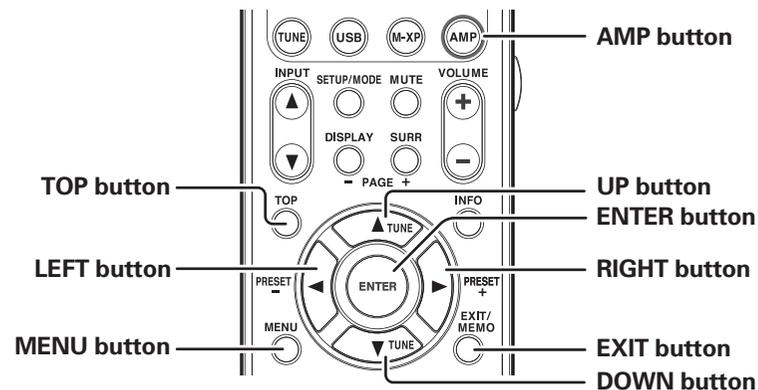
- (1) Move the cursor to "Input Setup" in the Main Menu.
- (2) When the ◀ or ▶ cursor button is pressed to display the  (key) icon on an item, the item concerned is locked.
4. To return to the Main MENU of the GUI menu system, press the **TOP** button.
5. To exit from the GUI menu system, press the **EXIT** button, or move the cursor to **EXIT** and press the **ENTER** button.

Note

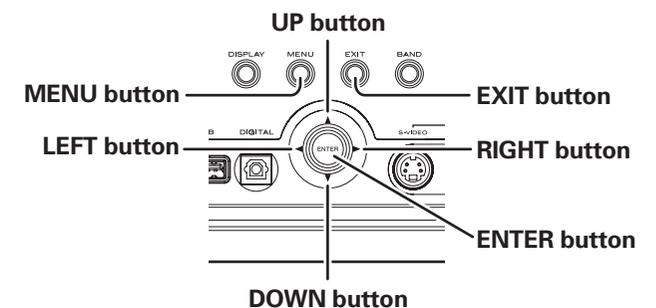
• After you complete this portion of the setup, move cursor to "Return" with the ▲ and ▼ cursor buttons and press the **ENTER** button.



RC007SR/RC008SR BUTTON CONTROL



SR6004/SR5004 FRONT BUTTON CONTROL



1 INPUT SETUP

This menu is for setting the matching the output of connected audio devices and the input jacks of this unit.

• **Function Input Setup :**

“1-1 FUNCTION INPUT SETUP”

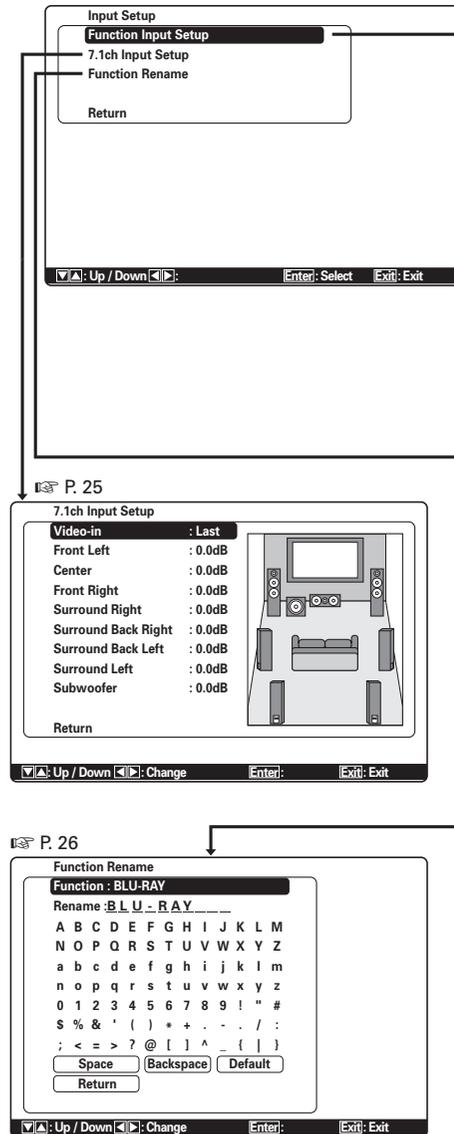
• **7.1ch Input Setup :**

“1-2 7.1 CH INPUT SETUP” (see page 26)

• **Function Rename :**

“1-3 FUNCTION RENAME” (see page 26)

1. Select “**Input Setup**” from the Main Menu with **▲** or **▼** cursor button, and press the **ENTER** button.
2. Select the desired sub-menu with the **▲** or **▼** cursor buttons, and press the **ENTER** button.



1-1 FUNCTION INPUT SETUP (ASSIGNABLE DIGITAL INPUT)

The digital inputs can be assigned to a desired source. HDMI and component inputs can be assigned to the preferred source. Use this menu to select which digital input jacks are to be assigned to which input source.

1. Select “**Function Input Setup**” from the Input Setup menu with the **▲** or **▼** cursor buttons and press the **ENTER** button.

SR6004

Function	Mode	Digital	HDMI	Comp.	Video
BLU-RAY	Auto	-	1	1	1
DVD	Auto	1	2	2	2
VCR	Auto	5	3	3	3
DSS	Auto	3	4	-	4
TV	Auto	4	-	-	Last
CD/CDR	Auto	2	-	-	Last
AUX	Auto	Front	-	-	(Front)
M-XPport	*	*	*	*	Last
SIRIUS	Analog	-	*	*	(Last)

SR5004

Function	Mode	Digital	HDMI	Comp.	Video
BLU-RAY	Auto	-	1	1	1
DVD	Auto	1	2	2	2
VCR	Auto	-	3	3	3
DSS	Auto	3	-	-	4
TV	Auto	4	-	-	Last
CD/CDR	Auto	2	-	-	Last
AUX	Auto	Front	-	-	(Front)
M-XPport	*	*	*	*	Last
SIRIUS	Analog	-	*	*	(Last)

2. Select a setting with the **▲**, **▼**, **◀**, and **▶** cursor buttons, and assign a mode and input jack (Digital, HDMI, Comp).

Mode

Auto: Select “**Auto**”, for automatic detection of the digital input signal condition. If there is no digital signal, but there is an analog signal present, the analog signal will be played. “Auto” is the initial setting of all input sources.

HDMI: Select “**HDMI**”, when only a HDMI signal will be used.

Digital:

Select “**Digital**”, when only a digital signal will be used.

Analog:

Select “**Analog**” for input sources for which no digital input jacks are used.

Digital

The digital inputs can be assigned to a desired source. Assign the number of a digital input jack to the device.

HDMI

Assign the number of an HDMI input jack to the device.

Note

- When **FUNCTION MODE** is set to **HDMI** and **HDMI AUDIO** of “5. PREFERENCE” is set to **Through**, audio is not output from the unit. (See page 36)

Comp.

Assign the number of a component video input jack to the device.

Video

Assign the number of a composite video and S-video input jack to the device.

Notes

- Video can use the same numbers when assigning to input functions.
- The * mark in **AUX** indicates that other inputs cannot be assigned.

3. Press the **ENTER** button.
4. Select each mode setting and input terminal with the **◀** or **▶** cursor buttons.
5. Press the **ENTER** button.
6. Repeat steps 2-5 until all items are set.

Note

- Assignments cannot be made in sections with a () mark.

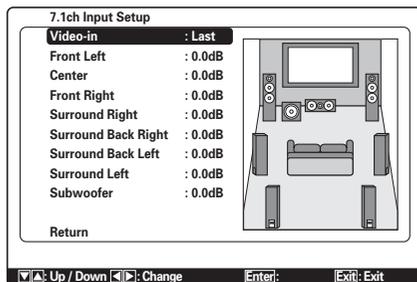
SETUP

1-2 7.1CH INPUT SETUP

This menu is for adjusting 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.

1. Select "7.1ch Input Setup" from the Input Setup menu with the ▲ or ▼ cursor buttons and press the ENTER button.



2. Select "Video-in" with the ▲ or ▼ cursor buttons.
3. Using the ◀ or ▶ cursor buttons, select the video input source to be played through the MONITOR OUT jack. The input source is switched by pressing the ◀ or ▶ cursor buttons as follows:
Last ↔ BLU-RAY ↔ DVD ↔ VCR ↔ DSS
↔ TV ↔ CD/CDR ↔ AUX ↔ M-XPport ↔
Video-off ↔ Last ↔...

Notes

- When "Last" is selected, the source is set to the source selected before the 7.1 ch input menu was activated.
- When "Video-off" is selected, no signal is emitted from MONITOR OUT jack.

4. Select desired channel with the ▲ or ▼ cursor buttons.
5. Using the ◀ or ▶ cursor buttons, adjust the volume level of each channel.

Move the cursor to "Return" with the ▲, ▼, ◀, and ▶ cursor buttons, and press the ENTER button to go to the Input Setup menu.

Note

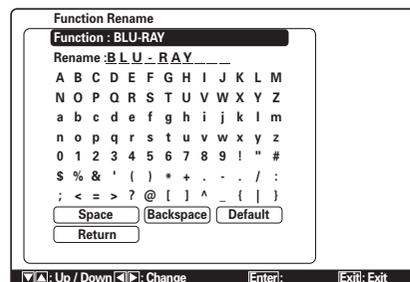
- The volume level can be set between -12 dB and +12 dB in 0.5 dB increments on all channels except the subwoofer (SUB W), which can be set from -18dB to +12 dB in 0.5 dB increments.

1-3 FUNCTION RENAME

Input sources can be registered under any name. This menu is for renaming input source.

This menu is for renaming function name. Names can be up to 10 characters long, including spaces. (Characters are selected from those appearing on the display.) This name appears on the unit's FL display and the GUI, but it does not appear in the GUI Setup menu.

1. Select "Function Rename" from the Input Setup menu with the ▲ or ▼ cursor buttons and press the ENTER button.



2. Select "Function" with the ▲ or ▼ cursor buttons.
3. Select an input source with the ◀ or ▶ cursor buttons.
4. Select "Rename" with the ▲ or ▼ cursor buttons.
5. Move the cursor to the character (1st to 10th) to change with the ◀ or ▶ cursor buttons.
6. Move the cursor to the character list with the ▼ cursor button. (Move the cursor to the letter "A" to begin with.)
7. Select a character with the ▲, ▼, ◀, and ▶ cursor buttons.
8. Press the ENTER button to enter the selected letter.
9. Repeat steps 5-8 until the new name is input.

Space:

Inserts a space at the cursor point of the "Rename" area.

Backspace:

Deletes the character left of the cursor in the "Rename" area one character at a time.

Default:

Restores the name in the "Rename" area to the name in the "Function" area.

Note

- Rename cannot be left blank.

Move the cursor to "Return" with the ▲, ▼, ◀, and ▶ cursor buttons and press the ENTER button to go to the Input Setup menu.

2 SPEAKER SETUP

After you have installed the unit 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:

• **Auto Setup:**

“2-1 AUTO SETUP (Audyssey MultEQ®)” (see page 28)

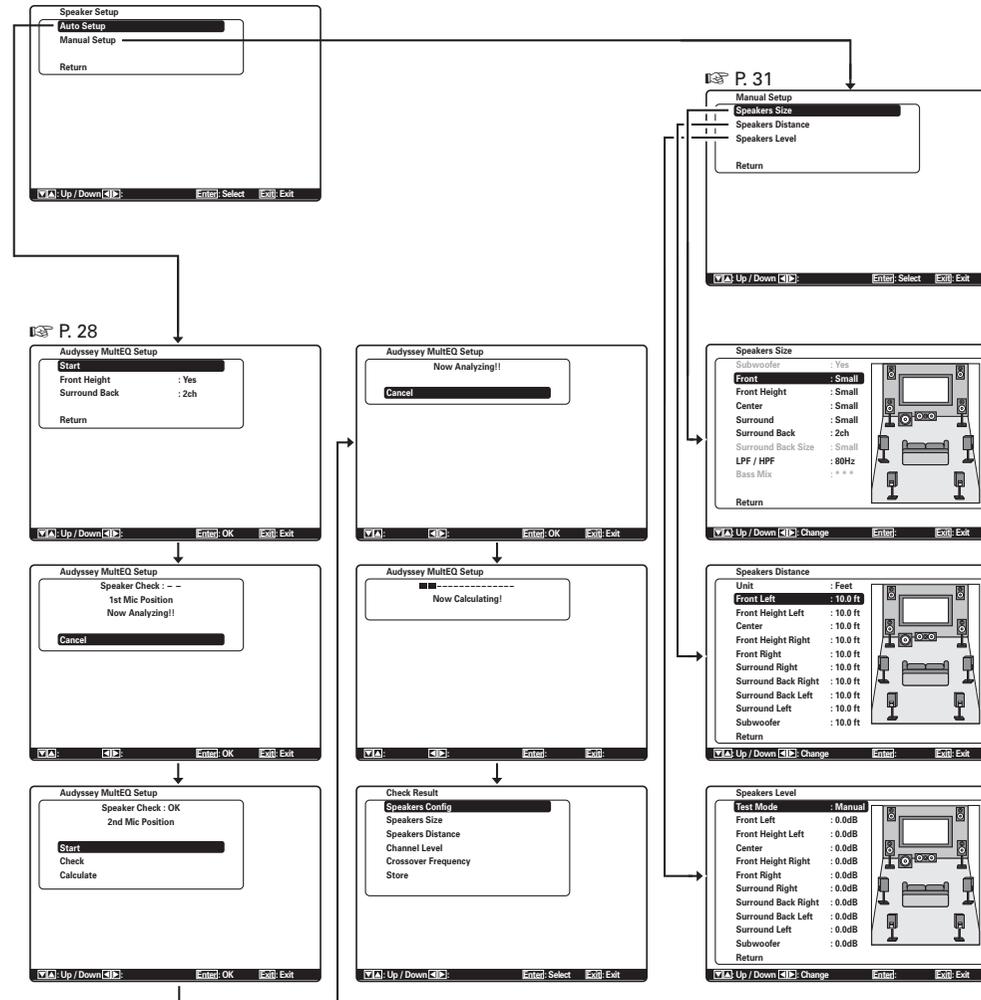
• **Manual Setup:**

“2-2 MANUAL SETUP” (see page 31)

1. Select “**Speaker Setup**” from the Main Menu with ▲ or ▼ cursor buttons and press the **ENTER** button.
2. Select the desired menu with the ▲ or ▼ cursor buttons, and press the **ENTER** button.

Note

• After you complete this the portion of the setup, press the ▲, ▼, ◀, and ▶ cursor button. The cursor will move to “**Return**” and press the **ENTER** button to go to the Sub-menu.



2-1 AUTO SETUP (AUDYSSEY MULTEQ®)

AUTO SETUP (performed by Audyssey MultEQ) automatically measures the acoustical problems in the listening environment and optimizes settings to create the best audio experience for your listening environment.

Audyssey MultEQ removes frequency response anomalies caused by the interaction of sound from loudspeakers within the room. This results in the playback of sound as it was intended, without coloration, not just in one seat, but over a large listening area.

Audyssey MultEQ measures up to 6 listening positions in the room, detects the presence of each speaker, and automatically calculates the speaker size, channel level, distance, and optimal crossover frequency settings.

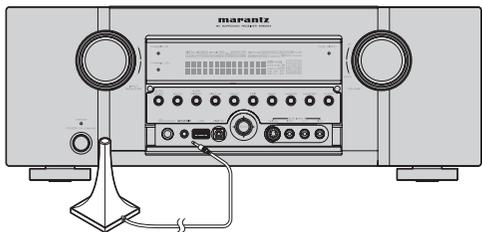
To set up the speaker system (i.e., adjusting speaker distance, etc.) without using the AUTO SETUP feature, see “MANUAL SETUP” on page 31 of the manual.

SETUP

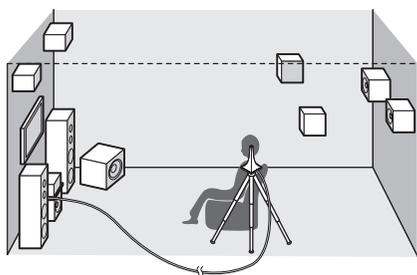
HOW TO PERFORM AUTO SETUP (AUDYSSEY MULTEQ®)

During this setup process, a GUI menu displays important instructions. So be sure to connect and power on the monitor to view the GUI instructions.

1. Connect the supplied microphone to the SETUP MIC jack on the unit.



2. Set the microphone in the main listening position.



Notes

- Up to 6 positions around the main listening position can be measured. For the first measurement, set the microphone in the main listening position.
- Use a stand or tripod to position the microphone at ear height for all listening positions measured with the microphone tip pointing directly up to the ceiling.
- Remove any obstructions between the speakers and microphone.
- When using a powered subwoofer, set the level knob to the middle or 12 o'clock position. Set the crossover to off, or to its highest value. If the subwoofer has a standby, or sleep mode, disable it. Not doing so could affect the test signal which may result in inaccurate subwoofer measurements.

- During measurements, do not stand between the microphone and the speakers. Make the room as quiet as possible. Background noise can disrupt the room measurements. Close windows, silence cell phones, televisions, radios, air conditioners, fluorescent lights, home appliances, light dimmers, or other devices.

Cell phones should be placed away from all audio electronics during the measurement process as Radio Frequency Interference (RFI) may cause measurement disruptions (even if the cell phone is not in use).

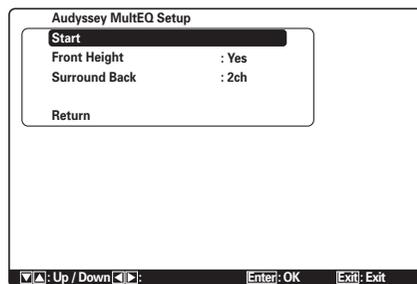
It is suggested to operate the AUTO SETUP via the remote controller rather than by front panel.

- The test tones played through each channel increase level as needed in order to overcome ambient noise present in the listening environment and obtain the best signal to noise ratio.

3. Select "Speaker Setup" from the Main Menu, select "Auto Setup" with the ▲/▼ cursor buttons, and press the ENTER button to display the start screen.

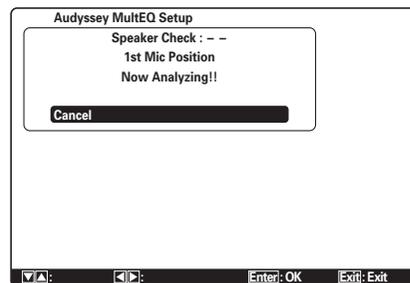
4. Select the number of channels of the surround back speakers which are being used and whether height speakers are part of the system. When a 5.1-channel configuration is used for the speaker systems, select "NONE" (no surround back speakers and no front height speakers). (See page 21, 36.)

Select "Start" with the ▲/▼ cursor buttons and press the ENTER button to start measurement.



5. "1st Mic Position Check"

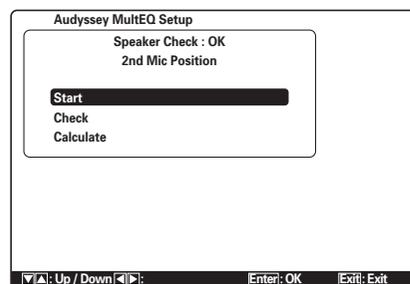
The main listening position refers to the most central position where one would normally sit within the listening environment. MultEQ uses the measurements from this position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer.



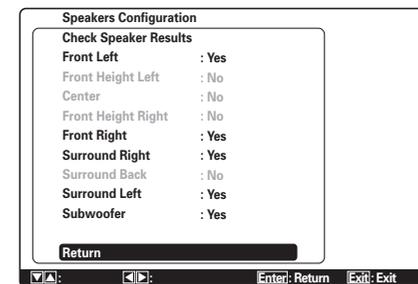
Note

- The Speakers Check detects the presence of connected speakers. If a channel is not used, the SPEAKERS CHECK will try to detect it, then continue to the next channel.

6. When the 1st Mic Position Check ends, the following GUI appears on the display.



Here, to view the results of the detection check, select "Check" with the ▲/▼ cursor buttons and press the ENTER button. The results will be displayed.



If Check Speaker Results indicates an error, address the issue of the noted speaker and remeasure. (For error messages, see "ERROR MESSAGES" on page 30.)

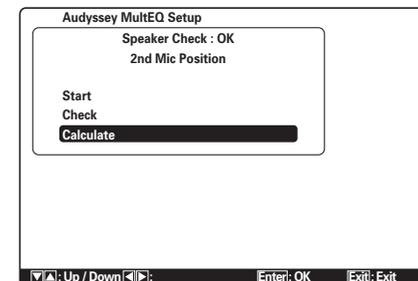
After confirming the check results, select "Return" with the ▲/▼ cursor buttons and press the ENTER button to return to the GUI menu.

At this point, you can select "Exit" to end Auto Setup and return to "Speaker Setup".

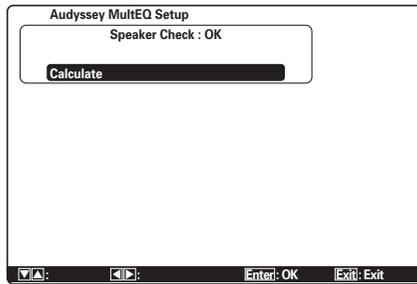
Note

- Auto Setup is not available in Pure Direct, Source Direct, or 7.1 Channel Input modes.

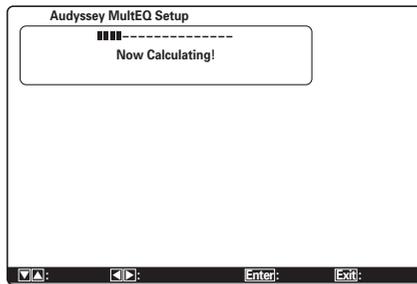
7. Move the microphone to the 2nd listening position, select "Start" with the ▲/▼ cursor buttons and press the ENTER button to measure the 2nd point. At this point, you can cancel second point measurement and calculate measurement results by selecting "Calculate" and pressing the ENTER button.



8. Repeat step 7 until measuring up to 6 points measuring the main listening position and other positions where people will commonly listen. When all measurements end, the following GUI appears on the display.



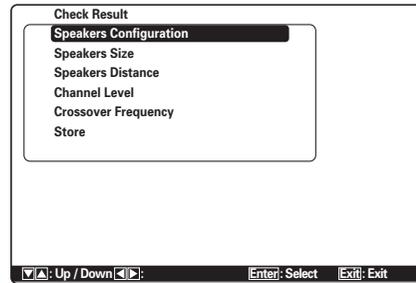
Select "Calculate" with the ▲/▼ cursor buttons and press the ENTER button to calculate measurement results. During calculations, the following GUI appears on the display.



Notes

- Fewer than 6 positions may be measured, but it is recommended to measure in all 6 positions for best results. Measuring in fewer than 3 position is not recommended as it does not provide enough acoustical information for good correction.
- The time needed to complete calculations depends on the number of connected speakers and measured listening positions. The more speakers and listening positions, the more time is needed.

9. Checking Measurement Results
When calculations for the measurement results end, a screen appears for confirming the calculation results.



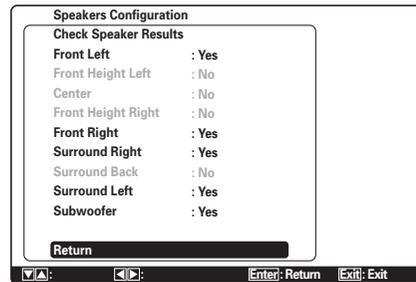
Select items to check with the ▲/▼ cursor buttons and press the ENTER button to enter them.

Note

To check equalizer (MultEQ®) parameters, see page 38.

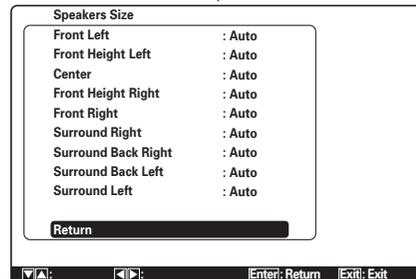
[Example]

Confirmation screen for speaker detection



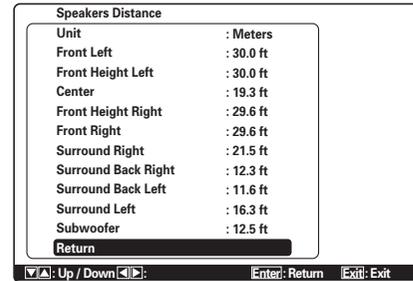
[Example]

Confirmation screen for speaker size.



[Example]

Confirmation screen for the distance from speakers to the listening position



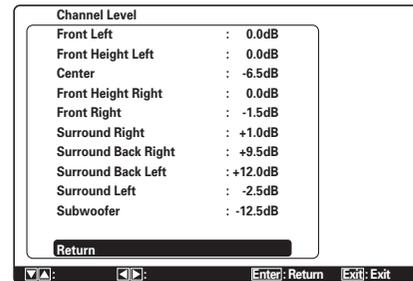
- * The units can be changed by moving the cursor to Meters of Unit and pressing ◀/▶ the cursor buttons. Each time a ◀/▶ cursor button is pressed, the units alternate between Feet and Meters.

Note

This system cannot measure a distance of 9.15 m (30.0 ft) or higher. In this case, >9.15 m (>30.0 ft) is displayed.

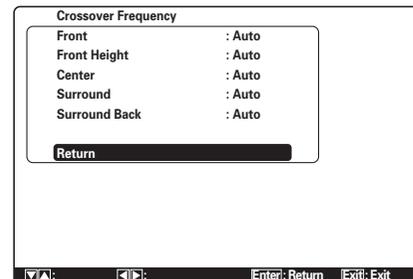
[Example]

Confirmation screen for channel level.



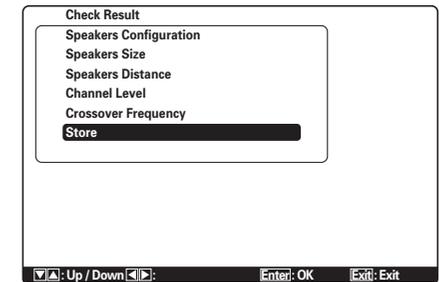
[Example]

Confirmation screen for crossover frequency.



- * Auto is displayed to indicate that the speaker size and crossover frequency results were automatically measured.

10. Storing Measurement Results in Memory
Once finished confirming the measurement results, select "Return" with the ▲/▼ cursor buttons and press the ENTER button to display the Check Result screen.

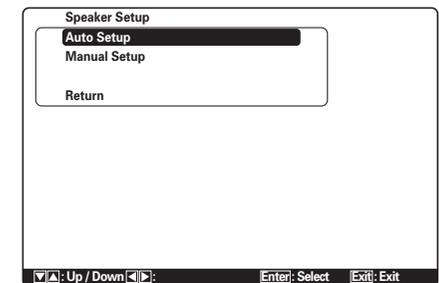


Place the cursor on "Store" and press the ENTER button to store all parameters including the equalizer parameters in memory. If not wanting to store the calculation results in memory, press the Exit button.

Note

Pressing "Exit" prior to pressing "Store" erases all measurement results and calculation results, therefore operate the remote controller with care.

When storing operations end, the following GUI appears on the display.

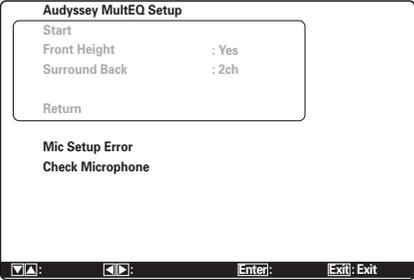
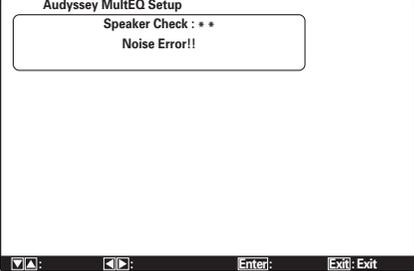
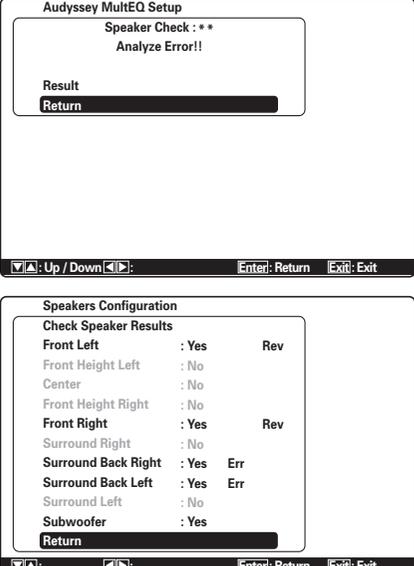


Note

- Do not turn the power to the unit off while storing parameters in memory. This may erase or corrupt data in the unit's memory and may damage the unit.

SETUP

ERROR MESSAGES

Displayed Error	Cause	How to Remedy
<p>Mic Setup Error!!</p>  <p>The screenshot shows the Audyssey MultEQ Setup menu. At the top, it says "Audyssey MultEQ Setup". Below that, it lists "Start", "Front Height : Yes", and "Surround Back : 2ch". At the bottom, it says "Return". Below the menu, there is a "Mic Setup Error" message and a "Check Microphone" instruction. The bottom navigation bar shows "Enter: Exit" and "Exit: Exit".</p>	<ul style="list-style-type: none"> The microphone is not properly connected. 	<ul style="list-style-type: none"> Connect the included microphone. Check the microphone connection.
<p>Noise Error!!</p>  <p>The screenshot shows the Audyssey MultEQ Setup menu. It says "Audyssey MultEQ Setup" and "Speaker Check : **". Below that, it says "Noise Error!!". The bottom navigation bar shows "Enter: Exit" and "Exit: Exit".</p>	<ul style="list-style-type: none"> There is too much noise in the listening room to measure properly. Volume from the speakers is low. 	<ul style="list-style-type: none"> During measurement, turn off devices that make noise such as air conditioners. Measure at a time when the surrounding area is quiet.
<p>Analyze Error!!</p> <p>* Under Analyze Error, select "Result" with the ▲/▼ cursor buttons and press the ENTER button. A detail screen like the following appears on the display.</p>  <p>The first screenshot shows the Audyssey MultEQ Setup menu with "Speaker Check : **", "Analyze Error!!", and "Result" highlighted. The second screenshot shows the "Speakers Configuration" screen with "Check Speaker Results". It lists various speaker channels and their status: Front Left (Yes, Rev), Front Height Left (No), Center (No), Front Height Right (No), Front Right (Yes, Rev), Surround Right (No), Surround Back Right (Yes, Err), Surround Back Left (Yes, Err), Surround Left (No), and Subwoofer (Yes). The bottom navigation bar shows "Enter: Return" and "Exit: Exit".</p>	<ul style="list-style-type: none"> The speakers required for suitable playback were not detected. Speaker polarity is connected backwards. <p>In the examples at left, the following trouble is detected.</p> <ul style="list-style-type: none"> The polarity of the left and right channels of the front speakers is backwards ([Rev] appears on the display.) The surround speaker is not connected ([No] is displayed), but the surround back speaker is connected <p>An error is indicated in addition to the above if the speakers are connected as follows.</p> <ul style="list-style-type: none"> When using just one surround back speaker, but it is connected to the surround back R-channel (To use just one surround back speaker, connect it to the L-channel.) 	<ul style="list-style-type: none"> Power off the unit and check the speakers that are indicated as reversed polarity. ([Rev] may appear with some speakers even if properly connected. If you are certain the wiring is correct, ignore the error indication and continue.) Check speaker direction and layout

NAMES AND FUNCTIONS

BASIC CONNECTIONS

BASIC OPERATION

ADVANCED CONNECTIONS

SETUP

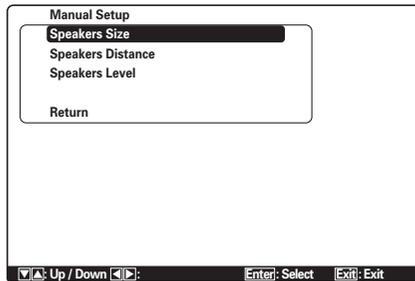
ADVANCED OPERATION

TROUBLESHOOTING

OTHERS

2-2 MANUAL SETUP

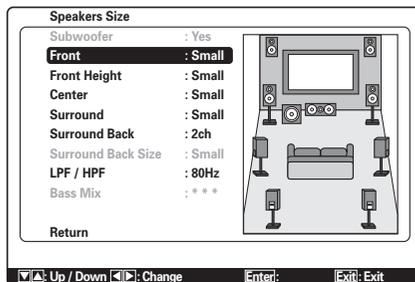
1. Select **"Speaker Setup"** from the Main Menu.
2. Select **"Manual Setup"** with the ▲ or ▼ cursor buttons.
3. Press the **ENTER** button to enter the selection.



4. Select the sub-menu with the ▲ or ▼ cursor button, and press the **ENTER** button.

<SPEAKERS SIZE>

5. Select Speaker Size with the ▲ or ▼ cursor button from the Manual Setup menu, and press the **ENTER** button.



When setting the speaker size in the Speaker Size menu, use the guidelines 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 that are lower than approx. 80 Hz will be output from the subwoofer.

If the Subwoofer is set to **"No"** and the front speakers are set to **"Large"**, then the sound will be output from both the left and right speakers.

Subwoofer

Yes:

Select when a subwoofer is connected.

No:

Select when a subwoofer is not connected.

Front

Large:

Select if the front speakers are large.

Small:

Select if the front speakers are small.

Note

- If **"No"** is selected for the subwoofer setting, then this setting is fixed at **"Large."**

Front Height

None:

Select if no front height speaker is connected.

Large:

Select if the front height speaker is large.

Small:

Select if the front height speaker is small.

Note

- If **"Zone SPKR"** is selected for Surround Back speakers, then this setting is fixed to **"None"**.

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

None:

Select if no surround speakers are connected.

Large:

Select if the surround speakers are large.

Small:

Select if the surround speakers are small.

Surround Back

None:

Select if no surround back speakers are connected.

1ch:

Select if one surround back speaker is connected. In this case, the audio signal is emitted from the SURR BACK LEFT SPEAKER terminal.

2ch:

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

Zone SPKR:

Select if using the SURROUND BACK SPEAKER terminal as ZONE SPEAKER A.

Note

- If **"None"** is selected for the Surround setting, then this setting is fixed to **"None."**

Surround Back Size

Large:

Select if the surround back speakers are large.

Small:

Select if the surround back speakers are small.

Note

- If **"None"** is selected for the Surround 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 speakers connected.

40Hz → 60Hz → 80Hz → 100Hz → 120Hz → 140Hz → 160Hz → 180Hz

Note

- If using small front speakers, set a slightly higher frequency. If using large front speakers, set a slightly lower frequency.

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.

This setting has effect only during playback of PCM or analog stereo sources.

- When **"Both"** is selected, the low frequencies will be played through the main L&R speakers and the subwoofer.

In this playback mode, the low frequency range expands more uniformly throughout 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 subwoofer.

6. Select each speaker with the ▲ or ▼ cursor buttons.

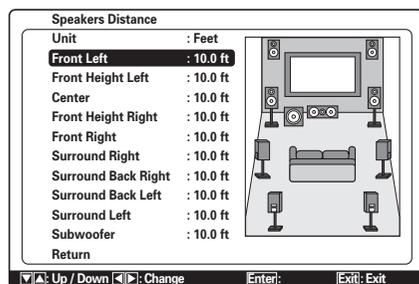
7. Set the size of each speaker with the ◀ or ▶ cursor buttons.

8. After you complete this portion of the setup, move the cursor to **"Return"** with the ▲ or ▼ cursor buttons and press the **ENTER** button to display the Manual Setup screen.

SETUP

<SPEAKERS DISTANCE>

9. Select Speaker Distance with the ▲ or ▼ cursor button from the Manual Setup menu, and press the ENTER button.



Use this menu 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 unit and today's sound systems are able to produce.

Note

- For speakers for which you have selected "None", the speaker configuration sub-menu will not appear here.

10. Select either **Meters** or **Feet** for Unit with the ◀ or ▶ cursor buttons.
11. Select each speaker with the ▲ or ▼ cursor buttons.
12. Set the distance for each speaker, press the ◀ or ▶ cursor buttons.

Front Left:

Set the distance from the front left speaker to your normal listening position.

Front Height Left:

Set the distance from the front height left speaker to your normal listening position.

Center:

Set the distance from the center speaker to your normal listening position.

Front Right:

Set the distance from the front right speaker to your normal listening position.

Front Height Right:

Set the distance from the front height right speaker to your normal listening position.

Surround Left:

Set the distance from the surround left speaker to your normal listening position.

Surround Right:

Set the distance from the surround right speaker to your normal listening position.

Subwoofer:

Set the distance from the subwoofer to your normal listening position.

Surround Back Left:

Set the distance from the surround back left speaker to your normal listening position.

Surround Back Right:

Set the distance from the surround back right speaker to your normal listening position.

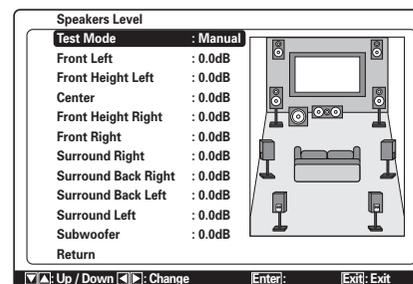
Notes

- Set the distance to each speaker in meters (m) or feet (ft) as follows.
m: 0.03 - 9.15 m in 0.03 m steps
ft: 0.1 - 30.0 ft in 0.1 ft steps
(The values appearing on the FL display are approximate.)
- For the speakers that you have selected "No" the speaker size menu will not appear.
- The setting for Surround Back Left and Surround Back Right appears if it is set, two surround back speakers in the Speaker Size menu.
- The setting of Surround Back appears if it is set for one surround back speaker in the Speaker Size menu.

13. After you complete this portion of the setup, move the cursor to "Return" with the ▲ or ▼ cursor buttons and press the ENTER button to display the Manual Setup screen.

<SPEAKERS LEVEL>

14. Select Speakers Level with the ▲ or ▼ cursor button from the Manual Setup menu, and press the ENTER button.



Here you can set the volume for each speaker so that they are all heard by the listener at the same level. We recommend holding a dB SPL (Sound Pressure Level) meter at the listening position, at arms length, and pointing straight up at the ceiling, adjust the level of each speaker in turn until it reads 75dB SPL when the meter is set to "C" weighting and Slow response.

Note

- The speaker level settings are not available in 7.1 Channel Input mode, Pure Direct mode and Source Direct mode.

Test tone:

Select "Manual" or "Auto" generation of the test tone with the ◀ or ▶ cursor buttons.

If you select "Auto", the test tone will be cycled through in a circular pattern beginning at **Front Left** → **Front Height Left** → **Center** → **Front Height Right** → **Front Right** → **Surround Right** → **Surround Back Right** → **Surround Back Left** → **Surround Left** → **Subwoofer** → **Front Left**, in 2 seconds increments 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.

15. Move the cursor to Front Left by pressing the ▼ cursor button. This unit 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 -12 and +12 dB in 0.5 dB increments.)
This unit will now emit the pink noise from the center speaker.
16. Using the ◀ or ▶ 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.
17. Press the ▼ cursor button again. This unit will now emit the pink noise from the front right speaker.
18. Repeat steps 17 and 18 for the front right and other speakers until all speakers are adjusted to the same volume level.

After you complete this portion of the setup, press the ENTER button to move the cursor to "Return". Press the ENTER button to go to "Manual Setup".

Notes

- Speakers for which you selected "None" in the Speaker Size menu will not appear.
- Surround Back Left and Surround Back Right appear if it is set for two surround back speakers in the Speaker Size menu.
- Surround Back appears if it is set 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 7.1 ch Input sub menu. (See page 26)
- Subwoofer can be set from -18dB to +12dB.

3 SURROUND SETUP

This menu is for setting surround effect parameters for the various surround input signals so as to bring out the live audio effect of your speaker system.

1. Select "Surround Setup" from the Main Menu with the ▲ or ▼ cursor buttons and press the ENTER button.
2. Select the desired menu with the ▲ or ▼ cursor buttons and press the ENTER button.

• Channel level:

"3-1 CHANNEL LEVEL" (see page 33)

• PLIIx Music Parameter:

"3-2 PLIIx MUSIC PARAMETER" (see page 34)

• CSII Parameter:

"3-3 CSII PARAMETER" (see page 34)

• NEO:6 Parameter:

"3-4 NEO:6 PARAMETER" (see page 34)

• HT-EQ:

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

The total 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 is available except in the following modes.

- 7.1 CH INPUT
- PURE DIRECT
- SOURCE DIRECT
- Dolby Head Phone
- When VIRTUAL is set for the surround mode

• LFE Level:

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

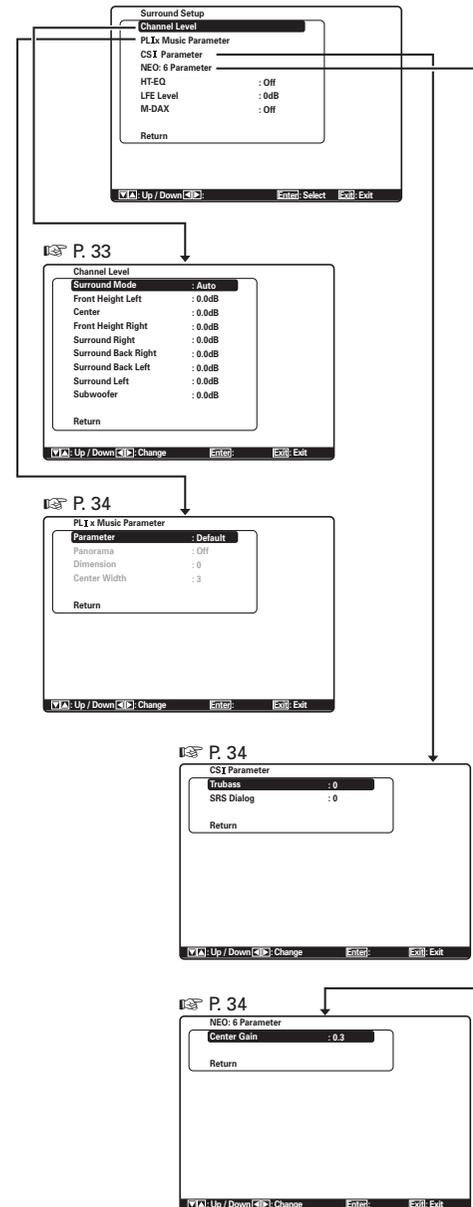
Select "0dB", "-10 dB" or "OFF" with the ◀ or ▶ cursor button.

• M-DAX:

Select the desired M-DAX mode.

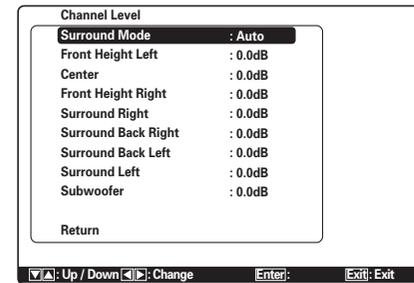
Select "High", "Low" or "Off" with the ◀ or ▶ cursor button. (See page 41)

After you complete this portion of the setup, move the cursor to "Return" with the ▲, ▼ cursor buttons and press the ENTER button.



3-1 CHANNEL LEVEL

1. Select "Surround Setup" from Main Menu with the ▲ or ▼ cursor buttons and press the ENTER button.
2. Select "Channel Level" with the ▲ or ▼ cursor buttons and press the ENTER button.
3. Set the Surround Mode with the ◀ or ▶ cursor buttons.



4. Select the desired menu item with the ▲ or ▼ cursor buttons, set the desired level with the ◀ or ▶ cursor buttons, and press the ENTER button.

Surround Mode:

The surround mode can be independently set for 3 modes.

1. Multi Ch STEREO
2. CSII
3. Others

CHANNEL LEVEL

Center:

Set the effect level of the center speaker between -12 and +12 level in 0.5 level interval .

- If "None" was selected for the center speaker setting in the Speaker Size, then this setting will not appear.

Surround Left or Right:

Set the effect level of the Surround speaker between -12 and +12 level in 0.5 level interval .

- If "None" was selected for the surround speakers setting in the Speaker Size, then this setting will not appear.

Surround Back Left or Right:

Set the effect level of the Surround Back speaker between -12 and +12 level in 0.5 level interval .

- If "None" was selected for the surround back speakers setting in the Speaker Size, then this setting will not appear.

Front Height Left or Right:

Set the effect level of the front height speaker between -12 and +12 level in 0.5 level interval .

- If "None" was selected for the front height speakers setting in the Speaker Size, then this setting will not appear.

Subwoofer:

Set the effect level of the subwoofer speaker between -18 and +12 level in 0.5 level interval .

- If "No" was selected for the subwoofer speaker setting in the Speaker Size, then this setting will not appear.

Note

- Setting to a mode other than multichannel stereo or CSII will affect the speaker level as explained in "2-2 MANUAL SETUP".

After you complete this portion of the setup, move the cursor to "Return" with the ▲ or ▼ cursor buttons and press the ENTER button to go to the Surround Setup menu.

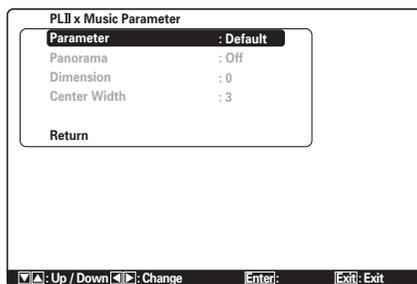
SETUP

3-2 PLIIx (PRO LOGIC IIX) MUSIC PARAMETER

Pro LogicIIX-Music mode creates a rich and enveloping surround ambience from stereo sources such as CDs.

In this mode, this unit includes three controls to fine-tune the sound field as follows.

1. Select **"Surround Setup"** in Main Menu with **▲** or **▼** cursor buttons and press the **ENTER** button.
2. Select **"PLIIx Music Parameter"** with the **▲** or **▼** cursor buttons.
3. Press the **ENTER** button to enter the selection.



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 **-3** and **+3** level in 1 level intervals with the **◀** or **▶** cursor buttons.

Adjust the sound field 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 speakers.

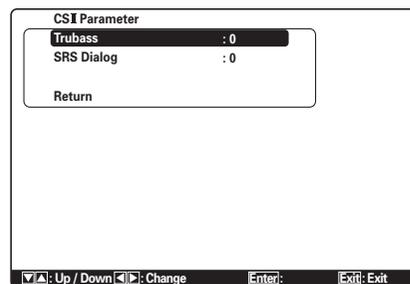
This control may help achieve a more spacious sound or a better blend for the front image.

If **"None"** was selected for the center speaker setting in the Speaker Size menu, this setting cannot be selected.

After you complete this portion of the setup, move cursor to **"Return"** with the **▲** or **▼** cursor buttons and press the **ENTER** button.

3-3 CSII PARAMETER

1. Select **"Surround Setup"** from Main Menu with the **▲** or **▼** cursor buttons and press the **ENTER** button.
2. Select **"CS II Parameter"** with the **▲** or **▼** cursor buttons.
3. Press the **ENTER** button to enter the selection.



Trubass:

Set the Trubass level between **0** and **6** in 1-level increments 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 increments 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 menu, this setting cannot be selected.

After you complete this portion of the setup, move cursor to **"Return"** with the **▲** or **▼** cursor buttons and press the **ENTER** button.

Note

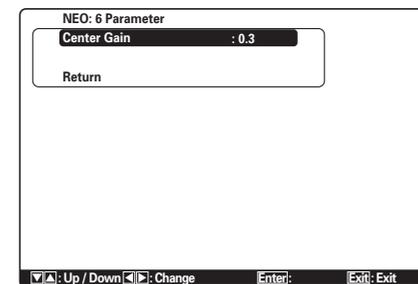
- This parameter can only be set in the CSII mode.

3-4 NEO:6 PARAMETER

The DTS NEO:6 mode enables a maximum 6.1 channel output with just 2 channel input. (It also supports 5.1 channel input.)

This mode expands the sound image from the center channel.

1. Select **"Surround Setup"** from Main Menu with the **▲** or **▼** cursor buttons and press the **ENTER** button.
2. Select **"NEO:6 Parameter"** with the **▲** or **▼** cursor buttons.
3. Press the **ENTER** button to enter the selection.



4. Set the Center Gain level between 0.0 and 1.0 in 0.1 level increments with the **◀** or **▶** cursor buttons.

After you complete this portion of the setup, move cursor to **"Return"** with the **▲** or **▼** cursor buttons and press the **ENTER** button.

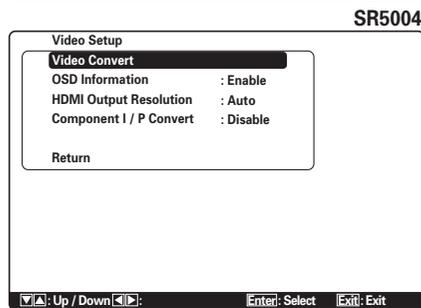
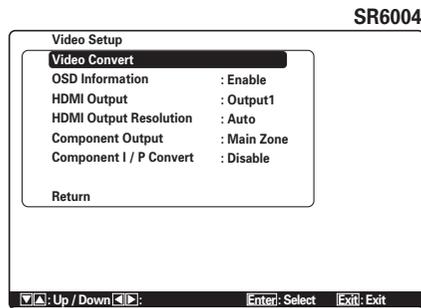
Notes

- This parameter can only be set in the NEO:6-Music mode.
- If **"None"** was selected for the center speaker setting in the Speaker Size menu, this setting is disabled.

4 VIDEO SETUP

Video settings are made as follows.

1. Select "Video Setup" from the Main Menu with the ▲ or ▼ cursor buttons and press the ENTER button.



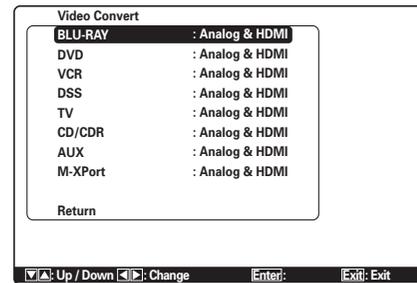
2. Select the desired menu with the ▲ or ▼ cursor buttons and press the ENTER button.

• Video Convert

This unit is equipped to convert video signals for monitor output.

This section explains how to set up conversion for each type of video input.

1. Select "Video Convert" with the ▲ or ▼ cursor buttons and press the ENTER button.



2. Select "Function" with the ▲ or ▼ cursor buttons and set the video conversion mode with the ◀ or ▶ cursor buttons.

Analog&HDMI:

This mode both up-converts and down-converts analog video signals (Composite Video, S-Video, Component Video). Furthermore, it up-converts from analog video signal to HDMI. (It cannot down-convert from HDMI digital video signals to analog video signals.)

Analog Only:

This mode both up-converts and down-converts analog video signals (Composite Video, S-Video, Component Video). It does not up-convert to HDMI.

Off:

This mode turns off all conversion features.

Note

- For details on video convert feature, see page 43.

• OSD Information

Select the OSD information function to "Enable" or "Disable" with the ◀ or ▶ cursor buttons.

If you select "Enable", this unit will display the status of the feature (Volume up/down, input select, etc..) on the monitor. If you do not desire this information, select "Disable".

Note

- OSD information is not output to Monitor Output of HDMI and Component Video. However, OSD information is output if the Video Convert function is used to output Video video signals to Monitor Out of HDMI and Component Video. For details, refer to "Video Convert" on page 44.

• HDMI Output (SR6004 only)

This setting is for selecting which output terminal, HDMI 1 or HDMI 2, to output the signal to. Select the output destination with the ◀ / ▶ cursor buttons.

• HDMI Output Resolution

Selects the resolution of the video signal output from the HDMI terminal of this unit. Select from the following using the ◀ or ▶ cursor buttons.

Auto ↔ Through ↔ 480p/576p ↔ 720p ↔ 1080i ↔ 1080p ↔ Auto ↔ ...

• Component Output (SR6004 only)

This setting is for selecting whether to output the images for the main zone or the images for the zone system to the COMPONENT MONITOR OUT terminal. Select the output destination between Main Zone and Zone A with the ◀ / ▶ cursor buttons.

• Component I/P Convert

Set whether or not to convert 480i/576i signals to 480p/576p signals when outputting the analog video input signal input from the VIDEO terminals or COMPONENT terminals.

Select "Enable" or "Disable."

Disable: Do not convert

Enable: Convert

Notes

- This setting is enabled only when Video Convert is set to other than Off.
- When a monitor is connected to the HDMI MONITOR OUT terminal, and HDMI RESOLUTION is set to 720p, 1080i, 1080p, or AUTO, the I/P CONVERT for COMPONENT VIDEO OUTPUT does not function.

After you complete this portion of the setup, move cursor to "Return" with the ▲ or ▼ cursor buttons and press the ENTER button.

SETUP

5 PREFERENCE

1. Select "Preference" from Main Menu with the ▲ or ▼ cursor buttons and press the ENTER button.
2. Select the desired menu with the ▲ or ▼ cursor buttons and press the ENTER button.

• Zone A Setup :

"5-1 ZONE SETUP" (see page 36)

• Zone B Setup :

"5-1 ZONE SETUP" (see page 36)

• DC Trigger Setup :

"5-2 DC TRIGGER SETUP" (see page 37)

• Optical:

Select when using equipment with optical digital output.

Rec: Select when recording to a CD recorder or MD recorder. (See page 12)

Zone B: Select when using ZONE B. (See pages 21, 65)

• Standby Mode:

When this is set to "Economy", you can reduce the power consumption when the unit is in the Standby mode. When "Economy" is selected, "RS-232C" is disabled when the unit is in the Standby mode.

• Audio:

In the Audio mode, Dolby Digital and DTS output is set to either "Main" or "Sub". Select "Audio" with the ◀ or ▶ cursor buttons, then select Main ↔ Sub ↔ Main+Sub with the ◀ or ▶ cursor buttons.

• HDMI Audio:

This setting determines whether to play back audio input to the HDMI jacks through the unit or output it through the unit to a TV or projector.

Enable: The audio input to the HDMI jacks can be played back by this unit. In such case, audio signals are not output to the TV or projector.

Through: The audio input to the HDMI jacks is not output from the speaker terminals of the unit. Audio data is output directly to the TV or projector. This setting is used to listen to audio on a multi channel TV, etc.

• HDMI Lip Sync:

Video signals may take longer to process than audio signals depending on the connected video equipment.

When the unit is connected to TV or Projector supporting Auto Lipsync Correction in HDMI 1.3a, audio and video can be automatically synchronized using this function.

Use the ◀ or ▶ cursor buttons to switch between Enable and Disable.

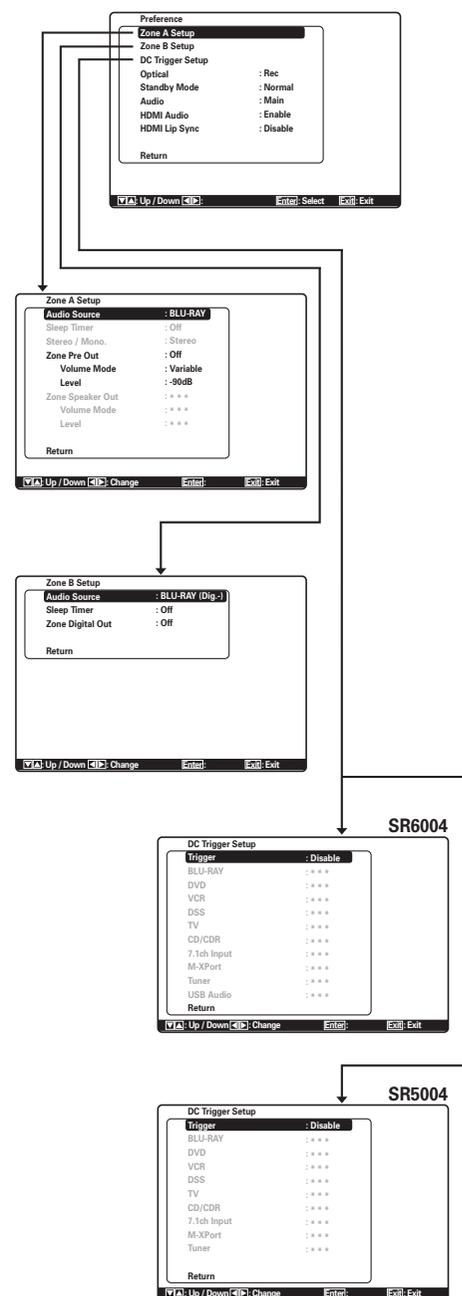
Enable: Auto Lipsync Correction is used to synchronize audio and video.

Disable: Deactivates this function.

Notes

- This function is not available when the unit is connected to equipment that does not support HDMI 1.3a or Auto Lipsync Correction. For details, check the user's manual of the connected equipment.
- If this function is unavailable, you can use the regular Lipsync function to synchronize audio and video. (See page 43)

After you complete this portion of the setup, move the cursor to "Return" with the ▲ or ▼ cursor buttons and press the ENTER button.

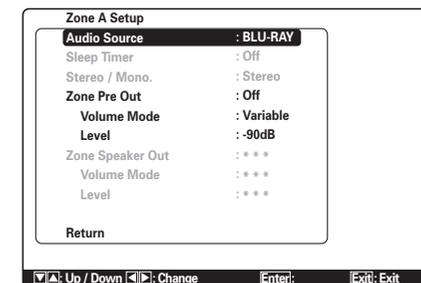


5-1 ZONE SETUP

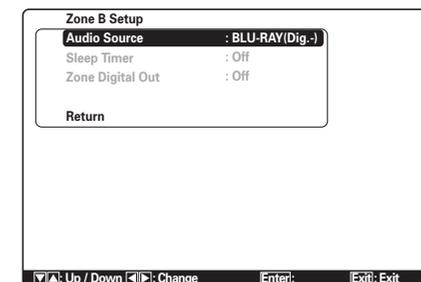
This unit has source selectors, sleep timers, zonespeaker output, and remote controller for the two other ZONES in the ZONE system. These features can be set from this menu.

1. Select "Preference" from the Main Menu with the ▲ or ▼ cursor buttons and press the ENTER button.
2. Select "Zone A Setup" or "Zone B Setup" with the ▲ or ▼ cursor buttons.
3. Press the ENTER button to enter the setting.

The following explanation shows how to operate ZONE A of the ZONE system.



The following explanation shows how to operate ZONE B of the ZONE system.



4. Select the desired item with the ▲ or ▼ cursor button.

Audio Source:

Select the audio source of the ZONE output with the ◀ or ▶ cursor buttons.

Sleep Timer:

The sleep mode is available when the ZONE is active, set the time with ◀ or ▶ cursor buttons. The sleep timer can be set to a maximum 120 minutes in 10 minute increments.

Stereo / Mono: (Zone A only)

This mode switches audio output to the ZONE system between Monaural and Stereo, using the ◀ and ▶ cursor buttons.

Zone Pre Out: (Zone A only)

Switch the zone pre out "On" or "Off" with the ◀ or ▶ cursor buttons.

Volume Mode: (Zone A only)

Select whether the zone pre out level is Variable or Fixed with the ◀ or ▶ cursor buttons.

Level (Volume Level): (Zone A only)

Adjust the zone pre out level with the ◀ or ▶ cursor buttons. The volume can be set between -90 dB and 0 dB in 1 dB increments.

Zone Speaker Out: (Zone A only)

Switch the zone speaker out "On" or "Off" with the ◀ or ▶ cursor buttons.

Volume Mode: (Zone A only)

Select whether the zone speaker out level is Variable or Fixed with the ◀ or ▶ cursor buttons.

Level (Volume Level): (Zone A only)

Adjust the zone speaker out level with the ◀ or ▶ cursor buttons. The volume can be set between -90 dB and 0 dB in 1 dB increments.

Zone Digital Out: (Zone B only)

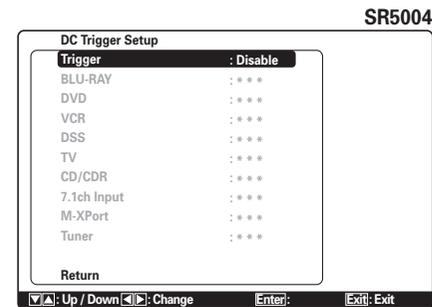
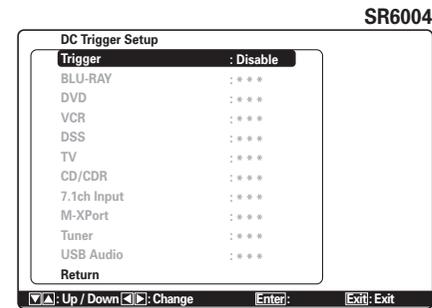
Switch the zone digital out "On" or "Off" with the ◀ or ▶ cursor buttons.

- *Zone Speaker Out cannot be on the ZONE B.*
- *In ZONE B, input sources that have not been set cannot be used.*
- *There are no Stereo/Mono, Volume Mode, Level (Volume Level) or Zone Speaker Out settings for ZONE B.*
- *If Optical Output is set to Rec (See page 36), Zone B functions cannot be used.*

5-2 DC TRIGGER SETUP

This unit has a DC trigger control jack, which can be used to link with input functions for the main ZONE or ZONE A or ZONE B.

1. Select "Preference" from Main Menu with the ▲ or ▼ cursor buttons and press the ENTER button.
2. Select "DC Trigger Setup" with the ▲ or ▼ cursor buttons.
3. Press the ENTER button to enter the selection.



4. You can select "Main Zone", "Zone A", "Zone B", "Remote" or "Disable" with the ◀ or ▶ cursor buttons.

Note

- *Remote is available for the external control. The RC007SR/RC008SR cannot operate the function.*

5. Select desired input source with the ▲ or ▼ cursor buttons.
6. Set to "On" or "Off" with the ◀ or ▶ cursor buttons.
7. After you complete this portion of the setup, move the cursor to "Return" with the ▲ or ▼ cursor button and press the ENTER button.

Note

- *When an input source that is on in the set ZONE is selected, voltage is output to the DC TRIG output terminal.*

Notes

- *In ZONE A, it is impossible to use HDMI or digital input (optical and coaxial) sources.*
- *In ZONE B, it is possible to use digital input (optical and coaxial) sources.*
- *Zone Speaker Out setting can be changed when the Surround Back is set to "None" in the Speaker Size menu and "SPEAKER C" is in the OFF position on the rear panel. When this setting is unavailable, "****" is displayed.*
- *If "Volume" is set to "Fixed", the ZONE output level cannot be adjusted from the ZONE A.*

SETUP

6 ACOUSTIC EQ

This display is for setting up the equalizer and changing the Equalizer mode.

1. Select "Acoustic EQ" from Main Menu with the ▲ or ▼ cursor buttons and press the ENTER button.
2. Select the desired menu with the ▲ or ▼ cursor buttons and press the ENTER button.

After you complete this portion of the setup, move the cursor to "RETURN" with the ▲ or ▼ cursor buttons and press the ENTER button.

• EQ Mode:

There are 4 equalizer modes to choose from: Preset Graphic EQ that allows the user to manually adjust the equalizer, and Audyssey™, Audyssey Front and Audyssey Flat that automatically adjust the equalizer from the measurement results of the Auto Setup feature (see page 28).

Audyssey Front:

Front L/R channels have no EQ correction applied while all other channels use the standard Audyssey mode for EQ correction.

Audyssey Flat:

This mode flattens the frequency characteristics of all speakers. It is suited for playback of multichannel music such as Dolby Digital and DTS.

Audyssey:

This mode adjusts the frequency characteristics of all speakers so as to create the best listening environment for the sound characteristics of the listening room.

User:

This mode adjusts the graphic equalizer that was set in Adjust User EQ to adjust the characteristics of each speaker (see page 39).

Off:

The graphic equalizer is not used.

To use the remote controller to change the EQ Mode, press the AMP button and press the EQ button.



Each time this button is pressed, the EQ Mode changes as follows.

**Notes**

- "Audyssey Front", "Audyssey Flat" and "Audyssey" can be selected after executing the Auto Setup feature.
- If a speaker that was determined "No" in Auto Setup is manually turned on, the "Audyssey", "Audyssey Front" and "Audyssey Flat" modes cannot be selected.
- If, after auto setup was performed, changes were made to the settings, such as the speaker configuration and distance, channel levels and crossover frequencies, without increasing the number of speakers whose characteristics were measured, "*" will be displayed for the name of the mode.
Example: "Audyssey Flat*"
- The equalizer turns off when the Pure Direct mode, Source Direct mode, Dolby Headphone or Virtual mode is set.
- Acoustic EQ Modes are not used during playback of Dolby TrueHD, Dolby Digital Plus, or DTS-HD signals.
Even in this case, settings made using Speaker Auto Setup (speaker yes/no, distance, size, channel level, crossover) are enabled.
- Tone Control is disabled when an EQ Mode is in use.

• Adjust User EQ :

"6-1 ADJUST USER EQ" (see page 39)

• Check Audyssey MultEQ® :

"6-2 CHECK AUDYSSEY MULTEQ" (see page 39)

• Audyssey Dynamic EQ™ :

Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Audyssey Dynamic EQ works in tandem with Audyssey MultEQ to provide well-balanced sound for every listener at any volume level.

Select "On" or "Off" with the ◀ or ▶ cursor buttons.

• Audyssey Dynamic EQ™ Adjust :

Audyssey Dynamic EQ is referenced to the standard film mix level of 85 dB SPL for -20 dBFS. Due to the lack of standards outside the film industry, the film reference level may not be appropriate when listening to other material.

Audyssey Dynamic EQ Adjust provides three offsets from the film level reference (5 dB, 10 dB, and 15 dB) that can be selected when the mix level of the content is not within the standard.

0 dB (Film Ref):

This is the default setting and should be used when listening to movies.

5 dB:

Select this setting for content that has a very wide dynamic range, such as classical music.

10 dB:

Select this setting for jazz or other music that has a wider dynamic range.
This setting should also be selected for TV content as that is usually mixed at 10 dB below film reference.

15 dB:

Select this setting for pop/rock music or other program material that is mixed at very high listening levels and has a compressed dynamic range.

Note

If Dynamic EQ is set to "Off", these settings cannot be selected.

• Audyssey Dynamic Volume™ :

Audyssey Dynamic Volume solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies. Audyssey Dynamic EQ is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression and dialog clarity remain the same. The amount of compression can be set to any of three levels.

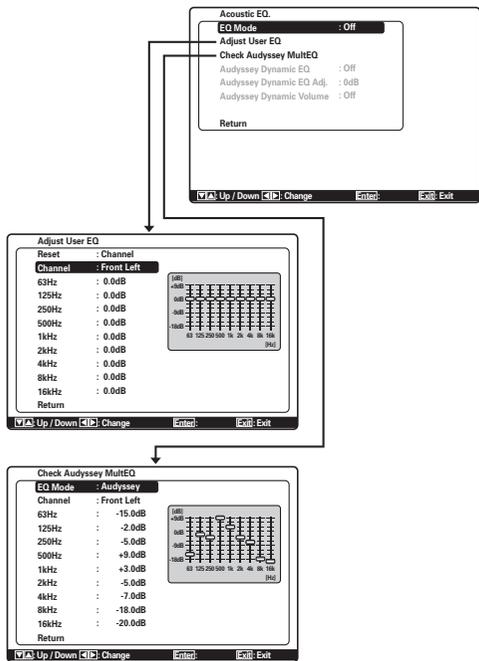
Select "Light", "Medium", "Heavy" or "Off" with the ◀ or ▶ cursor buttons.

Note

When Audyssey Dynamic EQ is off, Audyssey Dynamic Volume cannot be used.

To change Audyssey Dynamic EQ and Audyssey Dynamic Volume using the remote controller, press the **D.EQ/VOL** button. Each time this button is pressed, the mode changes in the sequence shown below.

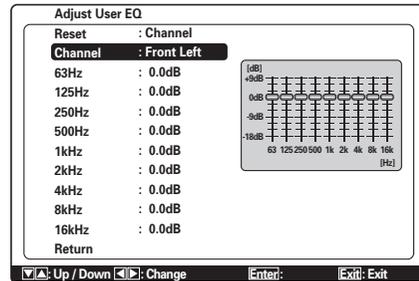
Off → Audyssey Dynamic EQ: On,
Audyssey Dynamic Volume: Off
→ Audyssey Dynamic EQ: On,
Audyssey Dynamic Volume: Light
→ Audyssey Dynamic EQ: On,
Audyssey Dynamic Volume: Medium
→ Audyssey Dynamic EQ: On,
Audyssey Dynamic Volume: Heavy
→ Off → ...



6-1 ADJUST USER EQ

These modes allow you to set a 9-band graphic equalizer for each of the 7 channels.

1. Select **“Adjust User EQ”** with the ▲ or ▼ cursor buttons.
2. Press the **ENTER** button to enter the selection.



Reset:

Using the ◀ or ▶ cursor buttons, select the channel(s) to be reset to either the currently displayed channel (“Channel”) or all channels (“All-Channel”), and press the **ENTER** button to enter the setting.

“All-Channel” : Resets all channels.

“Channel” : Resets only the currently displayed channel.

Channel:

Select the channel (“**Front Left**”, “**Front Height Left**”, “**Center**”, “**Front Height Right**”, “**Front Right**”, “**Surround Right**”, “**Surround Back Right**”, “**Surround Back Left**” or “**Surround Left**”) to adjust with the ◀ or ▶ cursor buttons, and switch to the adjustment mode with the ▼ cursor button.

Frequency:

Select the target frequency on the graph with the ▲ or ▼ cursor buttons. Adjust the level with the ◀ or ▶ cursor buttons. (Note that this can be adjusted to any level between **-20** and **+9** dB in 0.5 dB increments.)

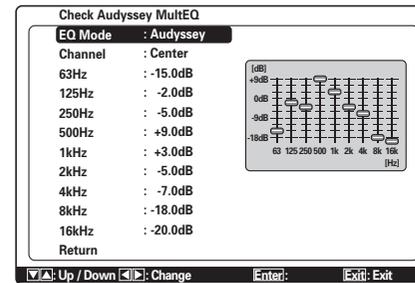
Move to the next frequency with the ▲ or ▼ cursor buttons, and adjust the level.

After you complete this portion of the setup move cursor to **“Return”** with the ▲ or ▼ cursor buttons and press the **ENTER** button.

6-2 CHECK AUDYSSEY MULTEQ®

These menus are for confirming the results of Auto Setup function equalizer measurement (Audyssey Front, Audyssey Flat, Audyssey).

1. Select **“Check Audyssey MultEQ”** with the ▲ or ▼ cursor buttons.
2. Press the **ENTER** button to enter the selection.



EQ Mode:

Select EQ (mode) with the ◀ or ▶ cursor buttons followed by the desired equalizer (“Audyssey”, “Audyssey Front”, “Audyssey Flat”).

Channel:

Select the channel to check with the ◀ or ▶ cursor buttons.

Notes

- The frequency will not be exactly the same as in the Preset Graphic EQ modes.
- Front Left and Front Right are not indicated on the Audyssey Front mode.

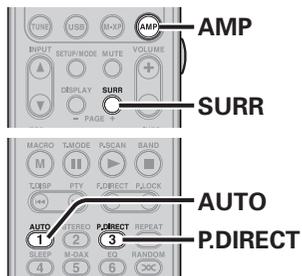
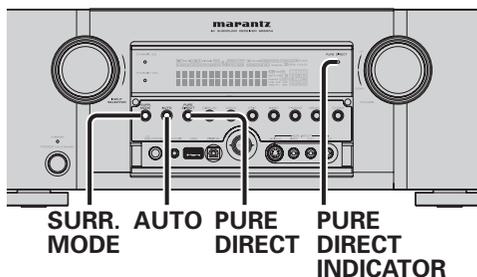
3. Once finished checking, select **“Return”** with the ▲ or ▼ cursor buttons and press the **ENTER** button to return to the “Acoustic EQ” menu.

ADVANCED OPERATION

AMP OPERATION

The unit shown in the illustrations is SR6004.

SELECTING THE SURROUND MODE



SURROUND MODE

For details on surround mode, refer to page 83.

(Using the unit)

Press the **SURR. MODE** button several times until the desired surround mode is selected.

(Using the remote controller)

After pressing the **AMP** button, press the **SURR** button several times until the desired surround mode is selected.

AUTO SURROUND

(Using the unit)

To select the Auto surround mode during playback, press the **AUTO** button on the front panel.

(Using the remote controller)

To select the Auto surround mode, press the **AMP** button and press the **AUTO** button.

- For surround modes, see "Surround Mode" on page 83.

PURE DIRECT

(Using the unit)

Press the **PURE DIRECT** button.

(Using the remote controller)

After pressing the **AMP** button, press the **P.DIRECT** button.

When this button is pressed once, "SOURCE DIRECT" appears on the FL display. If pressed again, "PURE DIRECT" appears. After 2 seconds, the FL display indication goes out.

In the source/pure direct mode, the tone control circuitry and bass management are bypassed.

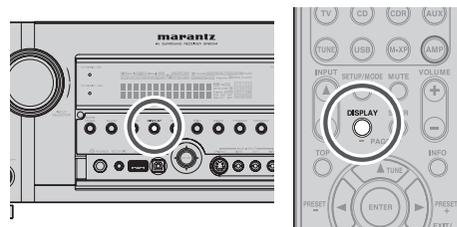
Each time this button is pressed, this mode changes as follows.



Notes

- The surround mode is automatically switched to **AUTO** when the pure direct function is turned on.
- Additionally, speaker configurations are fixed automatically as follows.
 - Front SPKR = LARGE
 - Center SPKR = LARGE
 - Surround SPKR = LARGE
 - Surround Back SPKR = LARGE
 - Sub woofer = YES

DISPLAY MODE



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

To select this mode, press the **DISPLAY** on the remote controller or the front panel.

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

Normal → Volume → Auto display OFF → Display OFF → Normal → ...

Normal mode:

The following three mode types are displayed.

- Displays the selected input function. If the function has been renamed using the Function Rename feature (see page 26), the renamed name appears on the display.
- Displays the input mode set via the Function Input Setup feature. (See page 25)
- Displays the status of the selected surround mode.

Volume mode:

The input function and input mode are displayed in the upper part, and the current volume level is displayed in the lower part.

Auto Display Off mode:

The display is off. But, if you make a change to the unit such as the 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.

Display Off mode:

The display is off completely.

Note

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

DIALOGUE NORMALIZATION MESSAGE

Dialogue Normalization (Dial Norm) is a feature of Dolby Digital.

When playing back software which has been encoded in Dolby Digital, sometimes you may see a brief message on the FL display which will read "D-NORM X dB" (X being a numeric value).

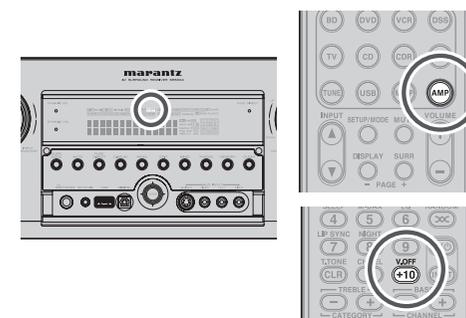
Dialogue Normalization serves to let you know if the source material has been recorded at a higher or lower level than usual. For example, if you see the following message: "D-NORM + 4 dB" on the FL display, to keep the overall output level constant just turn down the volume control by 4 dB. In other words, the source material that you are listening to has been recorded 4 dB louder than usual.

If you do not see a message on the FL display, then no adjustment of the volume control is necessary.

VIDEO ON/OFF

When no video signal is connected to the unit or a DVD, etc., is connected directly to your TV, the unnecessary video circuit can be turned off by selecting the "VIDEO OFF" setting.

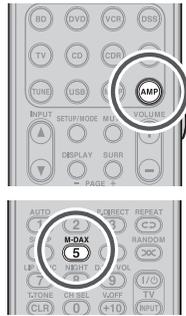
To select video off, press the **AMP** button and press the **V.OFF** button.



The "V-OFF" indicator on the front display panel will light.

ADVANCED OPERATION

M-DAX
(MARANTZ DYNAMIC AUDIO EXPANDER)



This function makes up for lost audio content in MP3 or AAC sources (from lossy compression) during playback. Choose one of the following levels for this effect as desired.

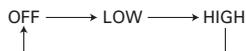
- “HIGH”: Stronger effect
- “LOW”: Weaker effect
- “OFF”: Deactivated

(Using the remote controller)

When switching to M-DAX mode, press the **AMP** button.

Press the **M-DAX** button.

Each time this button is pressed, M-DAX changes as follows.



The “M-DAX” indicator on the front display lights when M-DAX mode is LOW or HIGH. (See page 5)

Notes

- M-DAX is compatible with PCM (48 kHz or lower) and two-channel analog sources.
- The M-DAX is not available when Dolby Virtual Speaker mode is being used.

NIGHT MODE

Useful at night or when loud noise is undesirable, this mode compresses the dynamic range, making it easier to hear quieter audio content without increasing the overall volume.

Note that the effect of night mode is determined by the Dolby Digital content. Night mode may have no effect with content that does not support this function.



1. To select this mode, press the **AMP** button on the remote controller.
2. Each time the **NIGHT** button is pressed, the mode changes according to the following options indicated on the front of the unit.

- AUTO Mode



AUTO mode is available when decoding Dolby TrueHD signals.

When night mode is activated, “NIGHT” is illuminated on the front of the unit. (See page 5)

- NIGHT Mode ON



Setting the Night mode to “ON” compresses the dynamic range in Dolby Digital only.

- NIGHT Mode OFF



Turn off the Night mode.

SPEAKER A/B

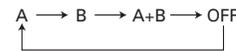


This unit has speaker system-A and speaker system-B for front L/R channels.

You can select these systems by pressing **SPKR A/B** on the remote controller.

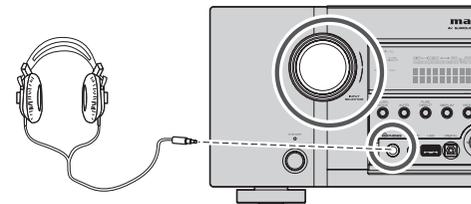
Press the **SPKR A/B** button.

Each time this button is pressed, Speaker system A and B changes as follows.



LISTENING THROUGH HEADPHONES

This jack may be used to listen to the unit’s output through a pair of headphones. Be certain that the headphones have a standard 1/4” stereo phono plug. Note that the speakers will automatically be turned off when the headphone jack is in use.



Notes

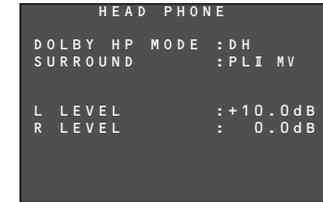
- When using headphones, the surround mode will change to STEREO and Dolby Headphone by MENU and Cursor button.
- The surround mode returns to the previous setting as soon as the headphone plug is removed from the jack.

DOLBY HEADPHONE MODE

This feature simulates the waveforms of the actual sounds heard from the speakers.

When headphones are used, the **MENU** button automatically switches to the Dolby headphone mode.

The OSD that appears when the **MENU** button is pressed is shown below.



DOLBY HP (Headphone) MODE can be selected with the left and right cursor buttons.

BYPASS → DH (DOLBY Headphone) → BYPASS

BYPASS: Bypasses the Dolby headphone mode and delivers ordinary 2-channel stereo.

DH: Dolby Headphone is a signal processing system that delivers a sound similar to room speakers.

It makes it possible to experience the volume and space of a 5-channel surround system using ordinary stereo headphones.

When the PURE DIRECT mode is selected, Dolby surround processing is bypassed and “***” is displayed as the mode indication.

The surround mode can be selected when the modes in DH is selected.

L/R LEVEL can be set in the ±12 dB range.

Notes

- The surround mode returns to the previous setting as soon as the plug is removed from the jack.
- In headphone mode, Tone Control and ACOUSTIC EQ are not available.

ADVANCED OPERATION

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 **A/D** button. When this button is pressed, the input mode is switched in the following sequence. Auto → HDMI → Digital → Analog → Auto

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.

HDMI mode:

HDMI mode can be selected only when an HDMI input has been assigned as an input source. When "HDMI Audio" under Preference of the Setup Menu is set to "Through", the HDMI mode cannot be selected.

Digital mode:

The input signal is fixed to an assigned digital input terminal.

Analog mode:

The analog input jacks are selected.

This selection is temporary and will not be stored in memory.

To store changes to the input mode, select "**Input Setup**" from the Main Menu. (See page 25)

Note

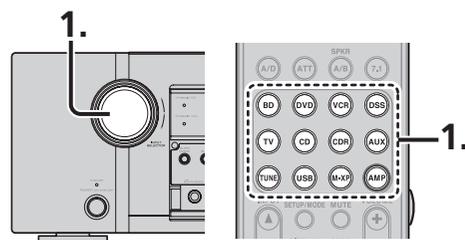
- This function cannot be used when performing USB, M-XPport or Tuner operations.

RECORDING AN ANALOG SOURCE

In normal operation, the audio or video source selected for listening through this unit 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 **CD/CDR OUT** and **VCR OUT** in the record mode.

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



- Select the input source to record by turning the **INPUT SELECTOR** knob on the front panel or simply press the input selector buttons on the remote controller. The input source is now selected and you may watch or listen to it as desired.
- The currently selected input source signal is output to the **CD/CDR OUT** and **VCR OUT** outputs for recording.
- Start recording to the recording component as desired.

Notes

- When connecting only digital signal input, output cannot be made to the **CD/CDR OUT** or **VCR OUT** terminals. When using recording functions, be sure to also make connections for analog signal input.
- Video or audio signals input to HDMI input terminals cannot be recorded.
- The S-Video or video signals input from the **AUX INPUT** terminal are output to the **VIDEO OUT (VCR)** terminal. However, video recording is not possible when copy control signals are contained in the video signals.

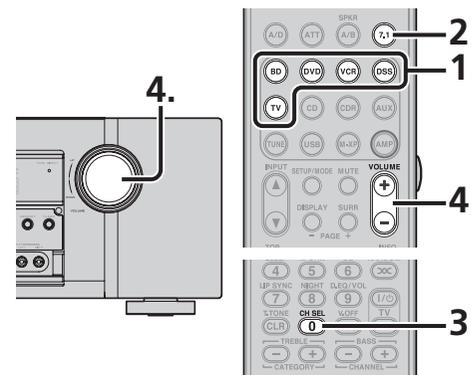
7.1 CH INPUT

This unit is equipped for future expansion through the use of Multi channel Super Audio CD 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) and 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. When 7.1 CH. INPUT is selected, the last video input used remains routed to the **Monitor Outputs**.

This permits simultaneous viewing with video sources



- Select a desired Video source to decide the routed video signal to the **Monitor Outputs**.
- Press the **7.1** button on the remote controller to switch the 7.1 channel input.
- If it is necessary to adjust the output level of each channel, press the **CH.SEL** button on the remote controller. 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 -12 to +12 dB. The subwoofer can be adjusted between -18 and +12 dB. These adjustments result will be stored to 7.1 CH. INPUT memory.

- Adjust the main volume with the **MAIN VOLUME** knob or the **VOL** buttons on the remote controller.

7.1 CH LEVEL ADJUST		
FRONT .L	LEVEL:	0.0 dB
CENTER	LEVEL:	0.0 dB
FRONT .R	LEVEL:	0.0 dB
SURR .R	LEVEL:	0.0 dB
S .B .R	LEVEL:	0.0 dB
S .B .L	LEVEL:	0.0 dB
SURR .L	LEVEL:	0.0 dB
SUB W	LEVEL:	0.0 dB

To cancel the 7.1 CH. INPUT setting, press the 7.1 button on the remote controller.

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.
- Furthermore, the following functions are not available during 7.1 CH Input use. Test Tone, NIGHT MODE, Source Direct, Pure Direct, HT-EQ, Tone Control, Acoustic EQ.

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 controller.

"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 CD/CDR and VCR-OUT.

This function is memorized for each individual input source.

LIP.SYNC

Depending on the image device (TV, monitor, projector, etc.) connected to the unit a time lag can occur between image signal processing and audio signal processing. Though minor, this time lag can interfere with movie and music enjoyment. The LIP.SYNC feature delays the audio signal with respect to the image signal output from the unit to correct the time lag between the sound and image. It can be operated with the "LIP SYNC" and ◀ and ▶ cursor buttons of the remote controller. Set the remote controller to the AMP mode before operating the LIP.SYNC feature. The initial setting is OFF (0 ms). The time lag can be adjusted in 10 ms steps up to 200 ms.

Watch the picture on the image device (i.e., TV, monitor, projector, etc.) as you adjust the time lag.



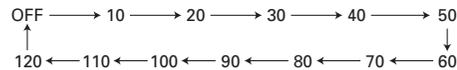
Notes

- The LIP.SYNC feature turns OFF (0 ms) in the SOURCE/PURE DIRECT mode. When the SOURCE/PURE DIRECT mode is deactivated, the set value of the LIP.SYNC feature is automatically restored.
- Even if you do not correct the time lag manually this way, audio and video are automatically synchronized when the unit is connected to TV or Projector supporting Auto Lipsync Correction in HDMI 1.3a. For instructions on Auto Lipsync Correction, see page 36.

USING THE SLEEP TIMER



To program this unit for automatic standby, press the **SLEEP** button on the remote controller. 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.

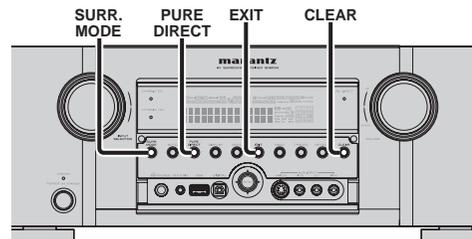
When the programmed sleep time has elapsed, the unit will automatically turn off.

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.

FRONT KEY (BUTTON) LOCK OF THE UNIT

To lock all front panel buttons (except the POWER ON/OFF button) and the INPUT SELECTER and VOLUME knobs, hold the **PURE DIRECT** and **EXIT** buttons on the front panel simultaneously for at least 3 seconds. At this time, "F-KEY LOCK!" is displayed.

To unlock the controls, press the same buttons again simultaneously for at least 3 seconds. At this time, "F-KEY UNLOCK" is displayed, and the buttons are released.

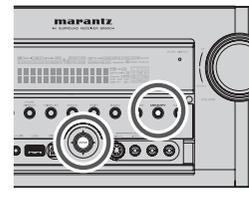


DUAL BACKUP MEMORY

The unit stores settings information in nonvolatile memory even when the main power supply is turned off. Using the Dual Backup Memory function, you can write settings information to another memory area to back up saved settings for recovery anytime as needed.

BACKUP

Set up the unit in the state for which you want to store the settings. Hold the **MEMORY** and **ENTER** buttons on the front panel simultaneously for at least 3 seconds.



"MEMORY SAVING" is displayed and the unit's settings are saved. The stored settings information is retained until Dual Backup Memory is used again and the information is overwritten.

M E M O R Y S A V I N G

Note

The following settings values cannot be backed up, each Volume value is set to Minimum.

- Main ZONE Volume
- ZONE A Volume
- ZONE Speaker A Volume

RECOVERY OF MEMORY

Recover backed up settings as follows. Hold the **MEMORY** and **MENU** buttons on the front panel simultaneously for at least 3 seconds.



"MEMORY LOAD" is displayed and the unit's stored settings are reapplied.

The unit temporarily enters standby mode. If there is no backup data, "NO BACKUP" is displayed and no data is recovered.

M E M O R Y L O A D

N O B A C K U P

ADVANCED OPERATION

VIDEO CONVERT

ANALOG VIDEO CONVERSION

This unit is equipped to convert video signals for monitor output. Because of this, indifferent of the connection (VIDEO, S-VIDEO, COMPONENT VIDEO) between the playback device and this unit, listening and viewing are possible with a single higher grade cable between the MONITOR OUT terminal of the unit and the monitor.

UP-CONVERSION FROM ANALOG VIDEO SIGNALS TO HDMI

The up-conversion feature of this unit can output the input analog video signals (for component video signals of 480i/576i, 480p/576p, 1080i and 720p resolution, and S-Video and Video (composite) of 480i/576i resolution) to the HDMI MONITOR terminal.

Notes

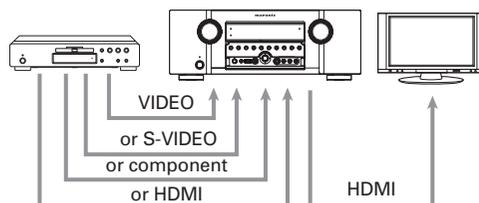
- HDMI video input is only output to the HDMI MONITOR OUT terminal of the unit. If connecting a playback device such as a DVD player to the HDMI input jack, connect the HDMI MONITOR OUT terminal of the unit to a TV monitor.
- This mode is unavailable for the REC out terminal.
- This mode is unavailable for still picture, fast forward and reverse play on video component.
- If, while attempting to use the video convert feature, the unit cannot synchronize with the display device, "NO SIGNAL" appears on the monitor or noise is generated, this feature cannot be used. All of these signs are caused by equipment incompatibility; there is nothing wrong with the unit.

If this occurs, set "VIDEO CONVERT" in the "VIDEO SETUP" menu to "DISABLE". Next, connect the video input signal to the display component via the MONITOR OUT terminal under VIDEO and the S-video input signal to the display component via the MONITOR OUT terminal under S-VIDEO.

- The video convert feature constantly monitors input video signals and determines whether to convert the input signals or not. However, some input video signals cannot be detected correctly. If this occurs, set "VIDEO CONVERT" in the "VIDEO SETUP" menu to "DISABLE".

CONNECTION EXAMPLE

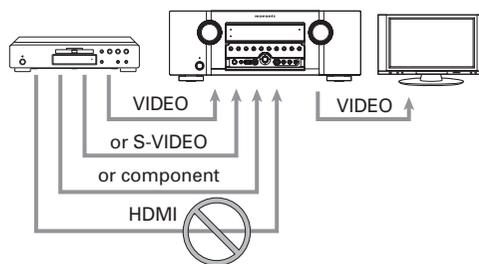
- When a monitor is connected to the HDMI MONITOR OUT terminal of the unit



Notes

- If the resolution of the component video signal input from the playback device is other than 480i/576i, 480p/576p, 1080i or 720p, images are not output from the HDMI MONITOR OUT terminal of the unit.
- If the resolution of the Video signal input from the playback device is other than 480i/576i, images are not output from the HDMI MONITOR OUT terminal of the unit.

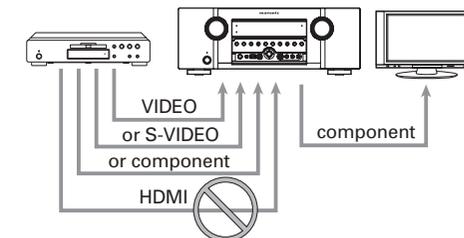
- When a monitor is connected to the VIDEO MONITOR OUT terminals of the unit



Notes

- The HDMI video signal input from the playback device is not output from the VIDEO MONITOR OUT terminals of the unit.
- If the resolution of the component video signal input from the playback device is other than 480i/576i, it is not output from the VIDEO MONITOR OUT terminals of the unit.

- When a monitor is connected to the COMPONENT VIDEO MONITOR OUT terminal of the unit



Note

- The HDMI video signal input from the playback device is not output from the COMPONENT VIDEO MONITOR OUT terminal of the unit.

Note of OSD menu system

- The setup menu can be displayed through all video out terminals ("HDMI", "COMPONENT" and "VIDEO").

I/P CONVERT

The video circuit of the unit is equipped with an I/P conversion feature.

When this feature is on, 480i/576i analog video signals (VIDEO, S-VIDEO or COMPONENT VIDEO) input from a playback device can be converted to 480p/576p and progressively output to the COMPONENT VIDEO or HDMI MONITOR OUT terminals of the unit.

(For setting instructions, see page 35)

Note

When a monitor is connected to the HDMI MONITOR OUT terminal, and HDMI RESOLUTION is set to 720p, 1080i, 1080p, or AUTO, the I/P CONVERT for COMPONENT VIDEO OUTPUT does not function.

HDMI OUT (SR6004 ONLY)



HDMI OUTPUT 1 or 2 can be selected and used with this unit.

Each time the **HDMI** button on the remote controller is pressed, OUTPUT 1 is switched to OUTPUT 2 or vice versa.

HDMI OUT 1 and HDMI OUT 2 cannot be output simultaneously.

HDMI - 0 = OUT 1

HDMI RESOLUTION

This function is used to output the analog video signal to HDMI as follows.

- 480i/576i signals can be converted to 480p/576p, 1080i, 720p or 1080p signals, while 480p/576p signals can be converted to 1080i, 720p or 1080p signals.
- 720p signals can be converted to 1080i or 1080p.
- 1080i signals can be converted to 1080p.
- The output resolution can be set for HDMI OUT 1 and HDMI OUT 2. (SR6004 only)

Notes

- Do not set to 1080i, 720p or 1080p when connected to a monitor that does not support 1080i, 720p or 1080p signals. The SETUP MENU will not be displayed. If the SETUP MENU is not displayed, change settings while viewing the main unit display panel.
- The resolution of analog component output cannot be changed.
- HDMI OUT 1 and HDMI OUT 2 cannot be output simultaneously. (SR6004 only)

TUNER OPERATION (PRESET MEMORY)

The unit shown in the illustrations is SR6004.

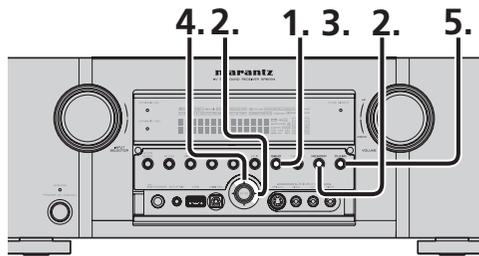
PRESET MEMORY

With this unit you can preset up to 60 FM/AM stations in any order.

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

AUTO PRESET MEMORY

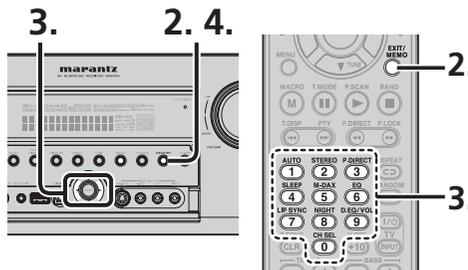
This function automatically scans the FM and AM band and enters all stations with proper signal strength into the memory.



- To select FM, press the **BAND** button on the front panel.
- While pressing the **MEMORY** button, press the **▶** cursor button. "AUTO PRESET" will appear on the display, and scanning starts from the lowest frequency.
- 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 **BAND** button.
- If no button is pressed during this period, the current station is memorized in location Preset 01. If you wish to skip the current station, press the **▲** cursor button during this period, this station is skipped and auto presetting continues.

- Operation stops automatically when all 60 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.

MANUAL PRESET MEMORY



(Using the unit)

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

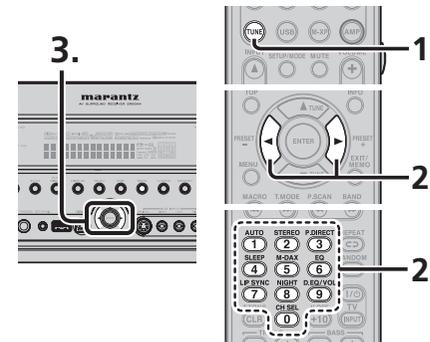
(Using the remote controller)

- Tune into the radio station you desire (Refer to the "MANUAL TUNING" or "AUTO TUNING" section).
- Press the **MEMO** button on the remote controller. "--" (preset number) starts blinking on the display.
- 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



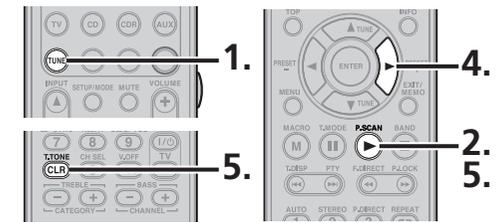
(Using the unit)

- Select the desired preset station by pressing the **◀** or **▶** cursor buttons on the front panel.

(Using the remote controller)

- Press the **TUNE** button twice within two seconds on the remote controller.
- Press the **◀** or **▶** button to tune in the desired preset station. Or enter the preset station number with the numeric buttons.

PRESET SCAN

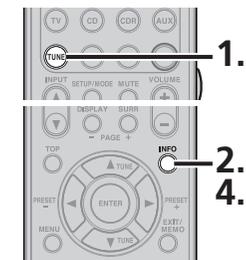


(Using the remote controller)

- Press the **TUNE** button twice within two seconds on the remote controller.
- Press the **P.SCAN** button on the remote controller. "PRESET SCAN" appears on the front display and then the preset station with the lowest preset number is recalled first.
- Preset stations are recalled in sequence (No.1 → No.2 → etc.) for 10 seconds each. No stored preset number will be skipped.
- You can fast forward the preset stations, press the **▶** continuously.
- When the desired preset station is received, cancel the preset scan operation by pressing the **CLR** button or **P.SCAN** button on the remote controller.

PRESET CHANNEL LIST DISPLAY

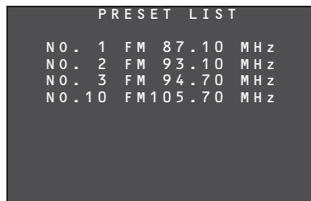
A complete list of the broadcast channels stored in this unit can be displayed.



- Press the **TUNE** button on the remote controller twice within two seconds to switch to the TUNER function.

ADVANCED OPERATION

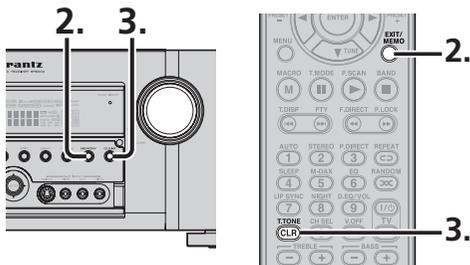
- Press **INFO** button on the remote controller.
- The list of preset channels will be displayed on the screen of the TV monitor connected to this unit.



- Up to 10 channels can be displayed at a time. If there are more than 10 channels, press **INFO** on the remote controller once more to display the next page. In a few moments the list display is cleared automatically.

CLEARING STORED PRESET STATIONS

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



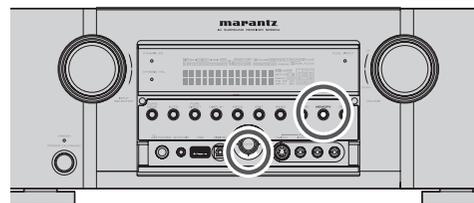
- Recall the preset number to be cleared with the method described in "Recalling" a preset station.
- Press the **MEMORY** button on the front panel or press the **MEMO** button on the remote controller.
- The stored preset number blinks in the display for 5 seconds. While blinking, press the **CLEAR**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

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

Note

- To clear all stored preset stations, press and hold the **T.MODE** and the **ENTER** 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

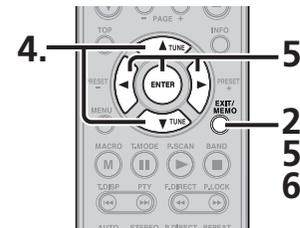
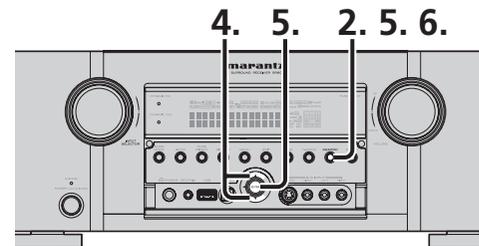
- 87.1 MHz
- 93.1 MHz
- 94.7 MHz
- 105.9 MHz

(notice there is no stations programmed for pre sets for 4-9), you can have pre set 10 become pre set 4: To sort the numbers, press and hold the **MEMORY** and the **▼** cursor 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.



- Recall the preset number to be inputted name with the method described in "Recalling" a preset station.
- Press the **MEMORY** button on the front panel or press the **MEMO** button on the remote controller for more than 3 seconds.
- The left most column of the station name indicator flashes, indicating the character entry ready status.
- When you press the **▲** or **▼** cursor buttons on the front panel or the remote controller, alphabetic and numeric characters will be displayed in the following order:

A ↔ B ↔ C ... Z ↔ 1 ↔ 2 ↔ 3 0 ↔ - ↔ + ↔ / ↔ (Blank) ↔ A

UP ↔
↔ DOWN

- After selecting the first character to be entered, press the **MEMORY** or **ENTER** button, or press the **MEMO** button on the remote controller. 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 **◀/▶** cursor buttons.

Note

- Unused columns should be filled by entering blanks.

- To save the name, press the **MEMORY** or **ENTER** button on the front panel, or press the **MEMO** button on the remote controller for more than 2 seconds. Instead of using the **▲** and **▼** cursor buttons to select characters, characters can be input from the numeric keys of the remote controller. See the below table for a correspondence between characters and numeric keys.

Numeric keypad	Display
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 → -

SATELLITE RADIO OVERVIEW

LISTENING TO SATELLITE RADIO

To listen to Satellite Radio, you'll need to connect either a SIRIUS or XM Satellite Radio tuner (sold separately) to your satellite-ready receiver. Satellite Radio is available to residents of the US (except Alaska and Hawaii) and Canada.

Satellite Radio delivers a variety of commercial-free music from categories ranging from Pop, Rock, Country, R&B, Dance, Jazz, Classical and many more plus coverage of all the top professional and college sports including play by play games from select leagues and teams. Additional programming includes expert sports talk, uncensored entertainment, comedy, family programming, local traffic and weather and news from your most trusted sources.

Whether you purchase a SIRIUS or XM tuner, you'll need to activate and subscribe to begin enjoying the service. Easy to follow installation and setup instructions are provided with the satellite tuners. Whichever service you choose, there are a variety of programming packages available, including the option of adding "The Best of SIRIUS" programming to your XM tuner or "The Best of XM" programming to your SIRIUS tuner, enabling you to enjoy the most popular programming among both services. The "Best of" packages are not available to SIRIUS or XM Canada subscribers at this time.

Family friendly packages are also available to restrict channels featuring content that may be inappropriate for children.

To subscribe to XM, U.S. customers should visit xmradio.com or call 1-800-XMRADIO (1-800-967-2346); Canadian customers should visit xmradio.ca or call XM Listener Care at 1-877-GETXMSR (1-877-438-9677).

To subscribe to SIRIUS, U.S. and Canadian customers can call 1-888-539-SIRI (1-888-539-7474) or visit sirius.com (US) or siriuscanada.ca (Canada).

SIRIUS XM RADIO LEGAL

SIRIUS, XM and all related marks and logos are trademarks of Sirius XM Radio Inc. and its subsidiaries. All other marks and logos are the property of their respective owners. All rights reserved. SIRIUS and XM subscriptions sold separately. Taxes and a one-time activation fee may apply. XM tuners and home docks or SIRIUS tuners (each sold separately) are required to receive the SIRIUS or XM satellite radio service. All programming and fees subject to change. It is prohibited to copy, decompile, disassemble, reverse engineer, hack, manipulate or otherwise make available any technology or software incorporated in receivers compatible with the SIRIUS or XM Satellite Radio Systems. **Service not available in Alaska and Hawaii.**

This unit is both an XM-Ready and SIRIUS-Ready receiver.

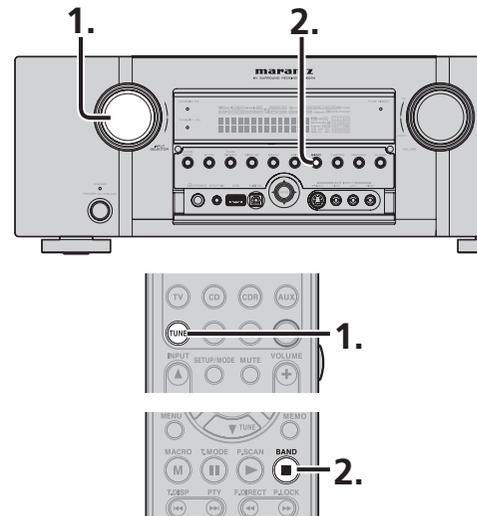
To listen to XM Satellite Radio programs, refer to page 47.

To listen to SIRIUS Satellite Radio programs, refer to page 51.

LISTENING TO XM SATELLITE RADIO

SELECTING AN INPUT SOURCE

Before you can listen to XM Satellite Radio, you must first select the input source on the unit.



(Using the unit)

1. Turn the **INPUT SELECTOR** knob to select "TUNER".
2. Press the **BAND** button to select XM band.

(Using the remote controller)

1. To select tuner, press the **TUNE** button twice within two seconds on the remote controller.
2. Press the **BAND** button to select XM band.

CHECKING THE XM SIGNAL STRENGTH AND RADIO ID



1. Press the **T.DISP** button 2 times to display the signal status.



- The top line of the display shows the strength of the signal received from satellite, while the bottom line displays the strength of the terrestrial signal received.
- An **Y** mark indicates the strength of the stronger of the satellite and terrestrial signals.
- The display changes as shown below according to the receiving condition.

SIGNAL: STRONG

(Signal strength is strong)



SIGNAL: GOOD

(Signal strength is good)



SIGNAL: MARGINAL

(Signal strength is marginal)



SIGNAL: WEAK

(Signal strength is poor)



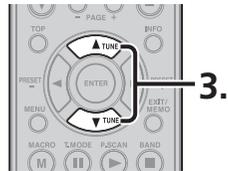
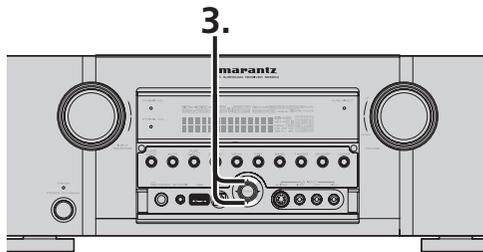
SIGNAL: NON

(Loss of the signal)



ADVANCED OPERATION

- Adjust the antenna location until signal strength is good or strong.
- Select channel 0 (XM000) with the ▲ or ▼ cursor buttons on the unit or the remote controller.



- The Radio ID is displayed.

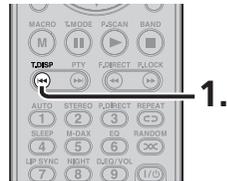


Notes

- If "ANTENNA" "TUNER" or "UPGRADE TUNER" appears in the front panel display, see Troubleshooting (page 82).
- To change the display content from XM information to the unit functions, do so with the **DISPLAY** button.

SWITCHING XM INFORMATION IN THE FRONT PANEL DISPLAY

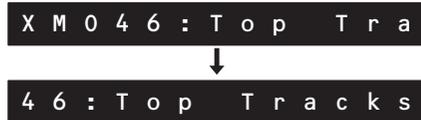
You can display XM information (such as artist name/song title, category or signal status) for the channel currently selected in the front panel display.



- Press the **T.DISP** button to displayed INFORMATION.

Channel number/name
Artist name/Song title
↓
Channel number/name
Channel category
↓
Satellite signal status
Terrestrial signal status
↓
Channel number/name
Surround mode

When the channel number/name is displayed:

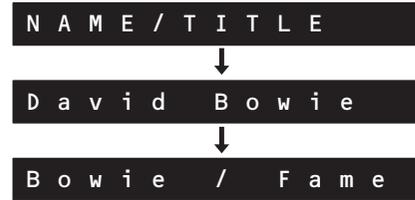


(If text is more than 14 characters long, the text is scrolled.)

Note

The front Panel display can indicate up to 14 alphanumeric characters at once. If the information contains more than 14 characters, the information scrolls from right to left.

When the channel Artist name/Song title is displayed:



The "NAME/TITLE" is displayed for 2 seconds, followed by the artist's name and song title. (If artist's name or song title is more than 14 characters long, the text is scrolled.)

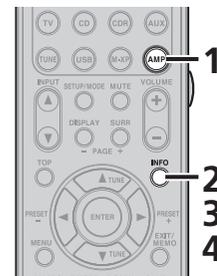
Note

The front Panel display can indicate up to 14 alphanumeric characters at once. If the information contains more than 14 characters, the information scrolls from right to left.

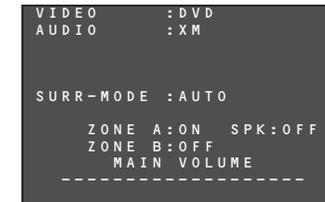
When the channel category is displayed:



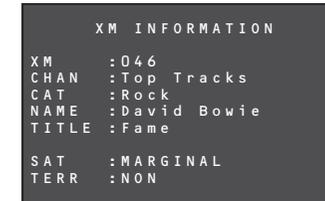
This XM information can also be displayed on a TV monitor connected to the unit.



- Press the **AMP** button on the remote controller.
- Press the **INFO** button. The following information will be displayed.



- When this display appears, press the **INFO** button again. XM information like the following will appear.



- Press the **INFO** button again. The information display will go out.

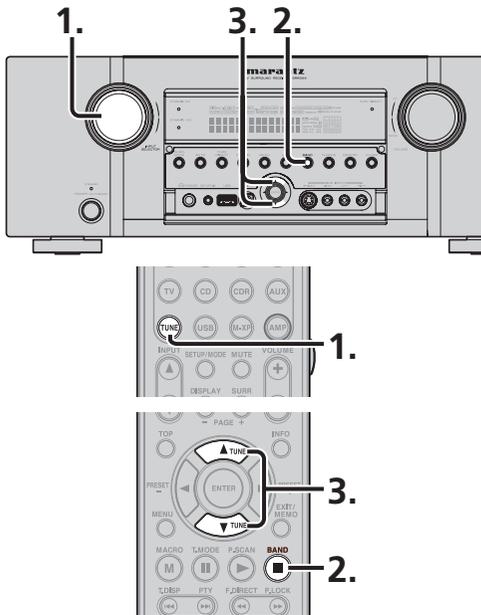
Note

If the information contains a character that cannot be recognized by that unit, the character will be displayed with " "(space).

SEARCH MODE

You can search for the channel you want to listen to using one of three search modes. You can also enter the number directly to select the desired channel.

ALL CHANNEL SEARCH MODE



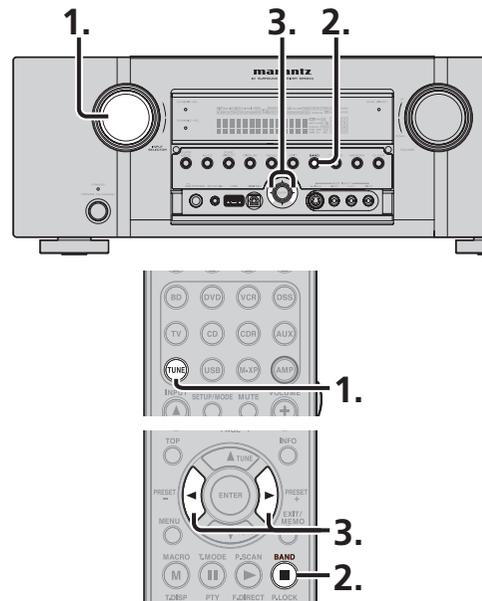
(Using the unit)

1. Turn the **INPUT SELECTOR** knob to select "TUNER".
2. Press the **BAND** button to select XM band.
3. Press the **▲** or **▼** cursor button on the front panel to select the desired channel.

(Using the remote controller)

1. To select tuner, press the **TUNE** button twice within two seconds on the remote controller.
2. Press the **BAND** button to select XM band.
3. Press and hold the **▲ TUNE** or **▼ TUNE** button.

PRESET SEARCH MODE



(Using the unit)

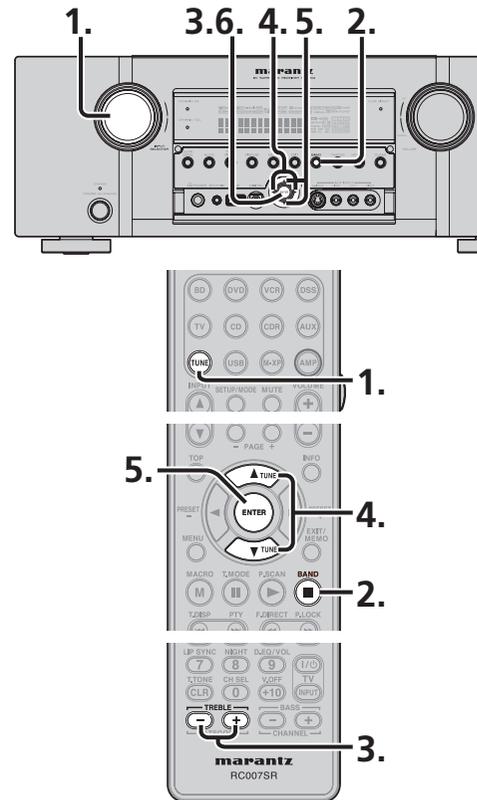
1. Turn the **INPUT SELECTOR** knob to select "TUNER".
2. Press the **BAND** button to select XM band.
3. Press the **◀** or **▶** cursor button on the front panel to select the desired preset channel.

(Using the remote controller)

1. To select tuner, press the **TUNE** button twice within two seconds on the remote controller.
2. Press the **BAND** button to select XM band.
3. **◀** or **▶** button to tune in the desired preset channel.
Or enter the preset channel number with the numeric buttons.

CATEGORY SEARCH MODE

You can select the desired channel from the category allocated to each channel. Category being aired can be only selected.



(Using the unit)

1. Turn the **INPUT SELECTOR** knob to select "TUNER".
2. Press the **BAND** button to select XM band.
3. Press the **ENTER** button on the front panel.
4. Press the **◀** or **▶** button on the front panel to select the desired category.
5. After selecting the category, Press the **▲** or **▼** cursor button to select the desired channel of the category.
6. You can return to the normal mode by press the **ENTER** button during Category Search Mode.

(Using the remote controller)

1. To select tuner, press the **TUNE** button twice within two seconds on the remote controller.
2. Press the **BAND** button to select XM band.
3. Press the **CATEGORY +** or **-** button.
4. After selecting the category, Press the **▲** or **▼** button to select the desired channel of the category.
5. You can return to the normal mode by press the **ENTER** button during Category Search Mode.

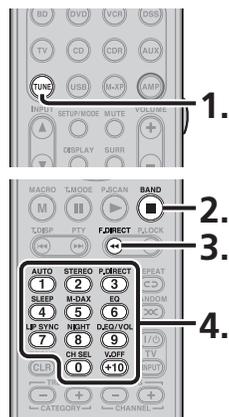
Note

Category search automatically ends 10 seconds after the last operation.

ADVANCED OPERATION

CHANNEL DIRECT CALL

You can select the desired channel by directly tapping the numeric keypads on the remote controller.



1. To select tuner, press the **TUNE** button twice within two seconds on the remote controller.
2. Press the **BAND** button to select XM band.
3. Press the **F.DIRECT** button. "XM - - -" will appear on the display.
4. Input the three digit number for your desired channel with the numeric keypad on the remote controller.
5. The desired channel will automatically be tuned.

Note

If there is no input on the keypad for 5 sec., the input is cancelled to return to the original display.

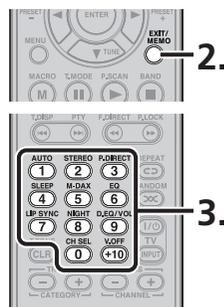
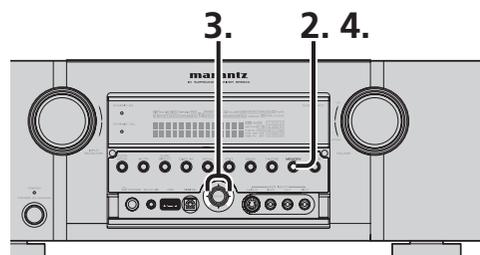
Notes

- "LOADING" is displayed while receiving the channel or information.
- "CH UNAUTH" is displayed while updating encryption code.
- When the selected channel is not available, "CH UNAVL" is displayed.
- "OFF AIR" is displayed while air is suspended (e.g. midnight).

PRESET MEMORY

You can store the desired channel in the Preset Memory.

In addition to AM and FM, it is possible to preset 50 XM Satellite Radio channels.



(Using the unit)

1. Tune into the desired channel.
2. Press the **MEMORY** button on the front panel. "- -" (preset number) starts blinking on the display.
- - X M 0 4 0
3. Select the preset number by pressing the ◀ or ▶ cursor buttons, While this is still blinking (approx. 5 seconds)
0 1 X M 0 4 0
4. Press the **MEMORY** button again to enter. The display stops blinking. The channel is now stored in the specified preset memory location.

(Using the remote controller)

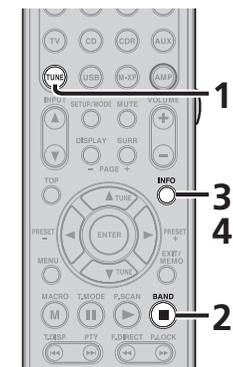
1. Tune into the desired channel.
2. Press the **MEMO** button on the remote controller. "- -" (preset number) starts blinking on the display.
3. Enter the desired preset number by pressing the **numeric** buttons.

Note

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

CHECKING THE XM PRESET CHANNEL

The preset channel can be checked on the on screen display.



(Using the remote controller)

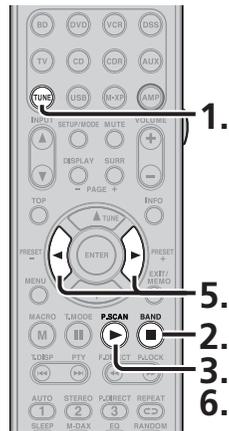
1. To select tuner, press the **TUNE** button twice within two seconds on the remote controller.
2. Press the **BAND** button to select XM band.
3. Press the **INFO** button. to view a list of tuner preset channel on the on screen display.
4. If there are 10 or more preset channel, press the **INFO** button again.

XM PRESET LIST			
NO.	1	XM010	XXXXXXXXXX
NO.	2	XM011	XXXXXXXXXX
NO.	3	XM015	XXXXXXXXXX
NO.	4	XM022	XXXXXXXXXX
NO.	5	XM125	XXXXXXXXXX
NO.	6	XM001	Preview
NO.	7	XM001	Preview
NO.	8	XM001	Preview
NO.	9	XM001	Preview
NO.	10	XM001	Preview

Note

The preset channel indication disappears in about 5 sec.

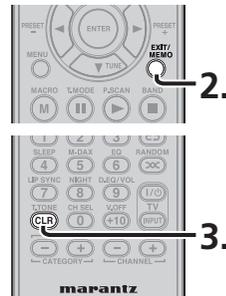
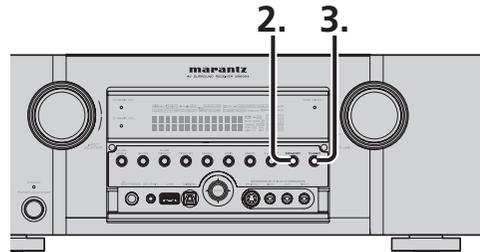
PRESET SCAN



1. Press the **TUNE** button twice within two seconds on the remote controller.
2. Press the **BAND** button to select XM band.
3. Press the **P.SCAN** button on the remote controller.
4. Preset channels are recalled in sequence (No.1 → No.2 → etc.) for about 10 seconds each. The time changes by the received condition. No stored preset number will be skipped.
5. Pressing the **▶** button during prescanning speeds up scanning. Also, pressing the **◀** button returns to the previous preset channel.
6. When the desired preset channel is received, cancel the preset scan operation by press the **P. SCAN** button.

CLEARING STORED PRESET CHANNELS

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



1. Recall the preset number to be cleared with the method described in "PRESET SEARCH MODE".
2. Press the **MEMORY** button on the front panel or press the **MEMO** button on the remote controller.
3. The stored preset number blinks in the display for 5 seconds. While blinking, press the **CLEAR** button on the front panel or **CLR** button on the remote controller.
4. "xx CLEAR" appears on the display to indicate that the specified preset number has been cleared.

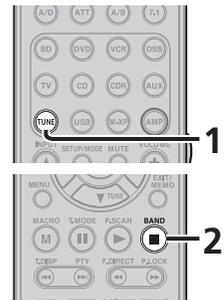
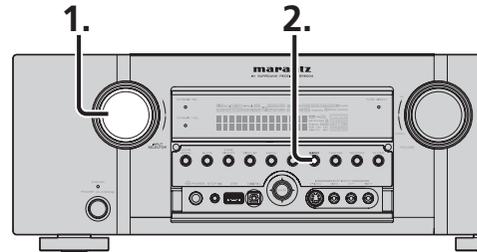
Notes

- To clear all stored preset channel, press and hold the **T.MODE** and the **ENTER** buttons on the unit for two seconds.
- There are 50 preset channels prepared at the factory default. The 50 channels are all set to "CHANNEL 001". Each channel can be stored in the preset memory. You can search for only the preset channels.

LISTENING TO SIRIUS SATELLITE RADIO

SELECTING AN INPUT SOURCE

Before you can listen to SIRIUS Satellite Radio, you must first select the input source on the unit.



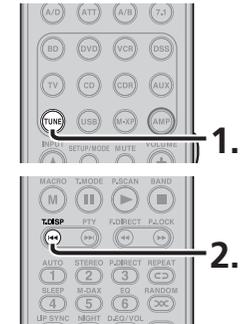
(Using the unit)

1. Turn the **INPUT SELECTOR** knob to select "TUNER".
2. Press the **BAND** button to select SIRIUS.

(Using the remote controller)

1. To select tuner, press the **TUNE** button twice within two seconds on the remote controller.
2. Press the **BAND** button to select SIRIUS.

CHECKING THE SIRIUS SIGNAL STRENGTH AND RADIO ID



1. Press the **TUNE** button on the remote controller.
2. Press the **T.DISP** button 3 times to display the signal status on the front display of the unit.



- The top line of the display shows the strength of the signal received from satellite, while the bottom line displays the strength of the terrestrial signal received.
- An **Y** mark indicates the strength of the stronger of the satellite and terrestrial signals.
- The display changes as shown below according to the receiving condition.

EXCELENT display



GOOD display



WEAK display

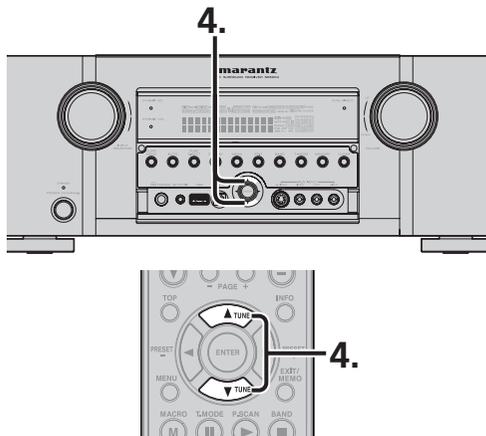


NO SIGNAL display



ADVANCED OPERATION

- Adjust the antenna location until signal strength is good or excellent.
- Select channel 0 (SR000) with the ▲ or ▼ cursor button of the unit or the remote controller.



- The Radio ID is displayed.

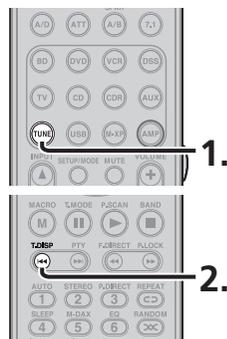
```
SR000 : S i r i u s I D
*****
```

Notes

- If "ANTENNA", "TUNER ERR" or "ACQUIRING" appears in the front panel display, see Troubleshooting (page 82).
- To change the display content from SIRIUS information to unit functions, do so from the display mode. (See "DISPLAY MODE" on page 40)

SWITCHING SIRIUS INFORMATION IN THE FRONT PANEL DISPLAY

You can display SIRIUS information (such as artist name, song title, composer name, category or signal status) for the channel currently selected in the front panel display.



- Press the **TUNE** button on the remote controller.
- Select the information with the **T.DISP** button.

```
Channel number/name
Artist name/Song title
↓
Channel number/name
Composer name
↓
Channel number/name
Category
↓
Satellite signal status
Terrestrial signal status
↓
Channel number/name
Surround mode
```

When the Channel number/name mode is displayed:

```
SR024 : *****
```

(If text is more than 14 characters long, the text is scrolled.)

When the Artist name/Song title is displayed:

```
NAME / TITLE
↓
P i n k F l o i d /
↓
F l o i d / M o n e y
```

When the Composer name is displayed:

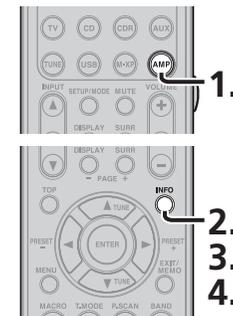
```
COMPOSER
↓
R o g e r W a t e r
```

The "NAME /TITLE" or "COMPOSER" is displayed for 2 seconds, followed by the artist name / Song title or Composer name. (If artist name / song title or composer name is more than 14 characters long, the text is scrolled.)

When the channel category is displayed:

```
C A T : R o c k
```

This SIRIUS information can also be displayed on a TV monitor connected to the unit.



- Press the **AMP** button on the remote controller.
- Press the **INFO** button. The following information will be displayed.

```
VIDEO : DVD
AUDIO : SIRIUS

SURR-MODE : AUTO

ZONE A : ON SPK : OFF
ZONE B : OFF
MAIN VOLUME
-----
```

- When this display appears, press the **INFO** button again. SIRIUS information like the following will appear.

```
SIRIUS INFORMATION

SIRIUS : 007
CHAN : 70s Hits
CAT : Pop
NAME : 1234567890123456
TITLE : 1234567890123456
CMPOSR : 1234567890123456
SAT : EXCELLENT
TERR : WEAK
```

- Press the **INFO** button again. The information display will go out.

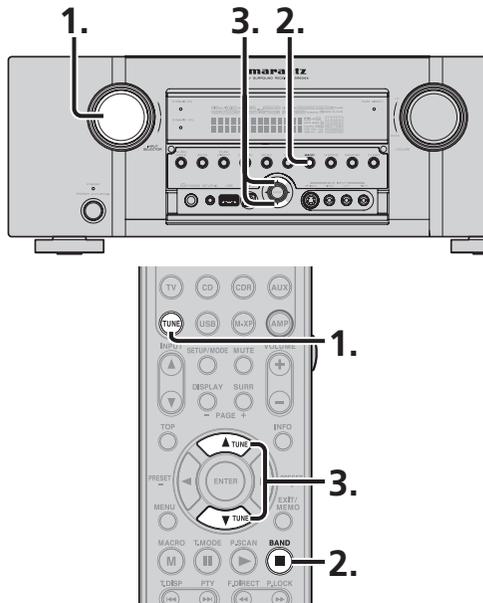
Note

- If the information contains a character that cannot be recognized by that unit, the character will be displayed with " "(space).

SEARCH MODE

You can search for the channel you want to listen to using one of three search modes. You can also enter the number directly to select the desired channel.

ALL CHANNEL SEARCH MODE



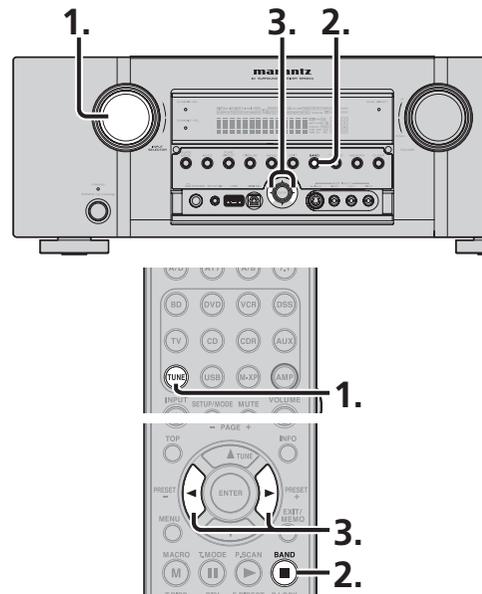
(Using the unit)

1. Turn the **INPUT SELECTOR** knob to select "TUNER".
2. Press the **BAND** button to select SIRIUS band.
3. Press the **▲** or **▼** cursor button on the front panel to select the desired channel.

(Using the remote controller)

1. To select tuner, press the **TUNE** button twice within two seconds on the remote controller.
2. Press the **BAND** button to select SIRIUS band.
3. Press and hold the **▲** or **▼** cursor button.

PRESET SEARCH MODE



(Using the unit)

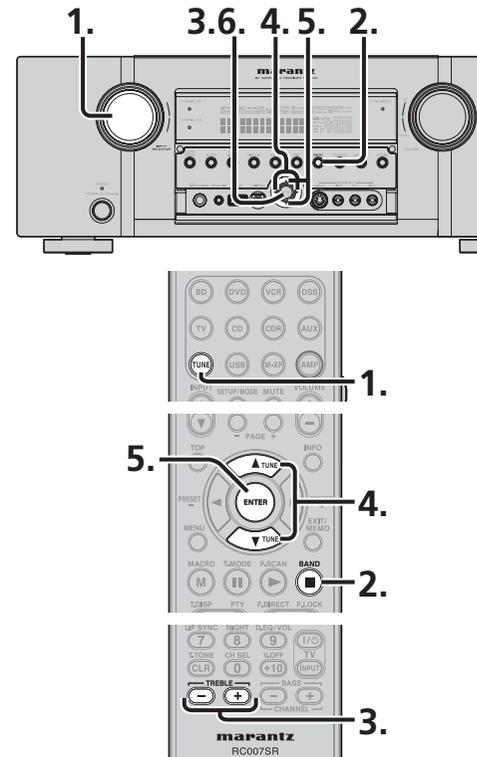
1. Turn the **INPUT SELECTOR** knob to select "TUNER".
2. Press the **BAND** button to select SIRIUS band.
3. Press the **◀** or **▶** cursor button on the front panel to select the desired preset channel.

(Using the remote controller)

1. To select tuner, press the **TUNE** button twice within two seconds on the remote controller.
2. Press the **BAND** button to select SIRIUS band.
3. **◀** or **▶** cursor button to tune in the desired preset channel.
Or enter the preset channel number with the numeric buttons.

CATEGORY SEARCH MODE

You can select the desired channel from the category allocated to each channel.
Category being aired can be only selected.



(Using the unit)

1. Turn the **INPUT SELECTOR** knob to select "TUNER".
2. Press the **BAND** button to select SIRIUS band.
3. Press the **ENTER** button on the front panel.
4. Press the **◀** or **▶** button on the front panel to select the desired category.
5. After selecting the category, Press the **▲** or **▼** cursor button to select the desired channel of the category.
6. You can return to the normal mode by press the **ENTER** button during Category Search Mode.

(Using the remote controller)

1. To select tuner, press the **TUNE** button twice within two seconds on the remote controller.
2. Press the **BAND** button to select SIRIUS band.
3. Press the **CATEGORY +** or **-** button.
4. After selecting the category, press the **▲** or **▼** cursor button to select the desired channel of the category.
5. You can return to the normal mode by press the **ENTER** button during Category Search Mode.

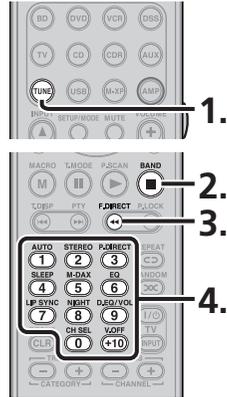
Note

- Category search ends automatically about 10 seconds after the last operation.

ADVANCED OPERATION

CHANNEL DIRECT CALL

You can select the desired channel by directly tapping the numeric keypads on the remote controller.



1. To select tuner, press the **TUNE** button twice within two seconds on the remote controller.
2. Press the **BAND** button to select SIRIUS band.
3. Press the **FDIRECT** button. "SR - -" will appear on the display.
4. Input the three digit number for your desired channel with the **numeric keypad** on the remote controller.
5. The desired channel will automatically be tuned.

Note

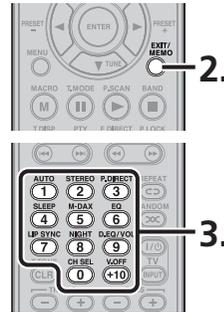
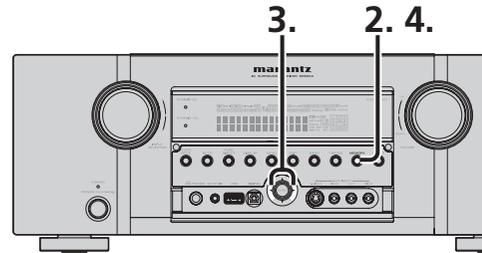
• If there is no input on the keypad for 5 sec., the input is cancelled to return to the original display.

Notes

- "UPDATING" is displayed while updating channel map.
- "SUB UPDT" is displayed while updating subscription.
- When the selected channel is not available, "INVALID" is displayed.

PRESET MEMORY

You can store the desired channel in the Preset Memory. (You can preset 50 SIRIUS Satellite Radio channels in addition to FM/AM stations.)



(Using the unit)

1. Tune into the desired channel.
2. Press the **MEMORY** button on the front panel. "- -" (preset number) starts blinking on the display.

- - S R 0 4 0
3. Select the preset number by pressing the ◀ or ▶ cursor buttons. While this is still blinking (approx. 5 seconds)

0 1 S R 0 4 0
4. Press the **MEMORY** button again to enter. The display stops blinking. The channel is now stored in the specified preset memory location.

(Using the remote controller)

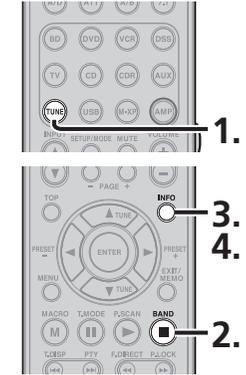
1. Tune into the desired channel.
2. Press the **MEMO** button on the remote controller. "- -" (preset number) starts blinking on the display.
3. Enter the desired preset number by pressing the **numeric buttons**.

Note

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

CHECKING THE SIRIUS PRESET CHANNEL

The preset channel can be checked on the on screen display.



(Using the remote controller)

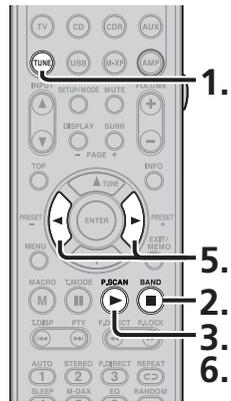
1. To select tuner, press the **TUNE** button twice within two seconds on the remote controller.
2. Press the **BAND** button to select SIRIUS band.
3. Press the **INFO** button to view a list of tuner preset channel on the on screen display.
4. If there are 10 or more preset channel, press the **INFO** button again.

SIRIUS PRESET LIST			
NO.	1	SR010	XXXXXXXXXX
NO.	2	SR011	XXXXXXXXXX
NO.	3	SR015	XXXXXXXXXX
NO.	4	SR022	XXXXXXXXXX
NO.	5	SR125	XXXXXXXXXX

Note

• The preset channel indication disappears in about 5 sec.

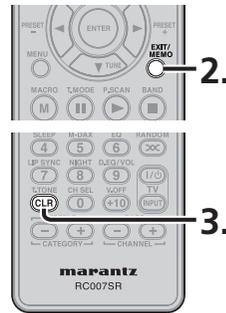
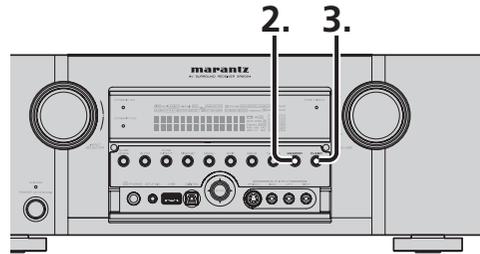
PRESET SCAN



1. Press the **TUNE** button twice within two seconds on the remote controller.
2. Press the **BAND** button to select SIRIUS band.
3. Press the **P.SCAN** button on the remote controller.
4. Preset channels are recalled in sequence (No.1 → No.2 → etc.) for about 10 seconds each. The time changes by the received condition. No stored preset number will be skipped.
5. Pressing the **▶** cursor button during prescanning speeds up scanning. Also, pressing the **◀** cursor button returns to the previous preset channel.
6. When the desired preset channel is received, cancel the preset scan operation by press the **P.SCAN** button.

CLEARING STORED PRESET CHANNELS

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



1. Recall the preset number to be cleared with the method described in "PRESET SEARCH MODE".
2. Press the **MEMORY** button on the front panel or the **MEMO** button on the remote controller.
3. The stored preset number blinks in the display for 5 seconds. While blinking, press the **CLEAR** button on the front panel or **CLR** button on the remote controller.
4. "xx CLEAR" appears on the display to indicate that the specified preset number has been cleared.

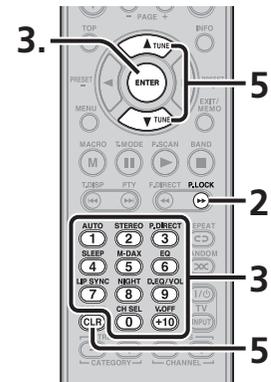
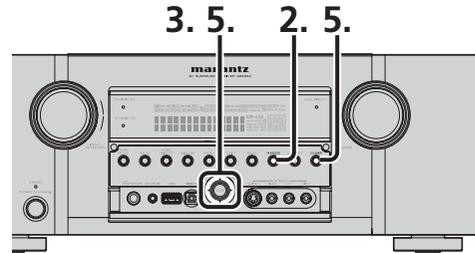
Note

- To clear all stored preset channels, press and hold the **T-MODE** and the **ENTER** buttons on the unit for two seconds.

PARENTAL LOCK

This function is used to lock channels you do not want to receive.

SETTING/RELEASING PARENTAL LOCK



1. Tune to the channel that you want to set parental lock.
2. Press the **T.MODE** button on the unit or the **P.BLOCK** button on the remote controller.

P A S S W O R D * * * *

3. When [PASSWORD ****] appears, use the cursor buttons on the unit or remote controller, to enter a password (4 digits), then press the **ENTER** button on the unit or the remote controller.

Note

The password is set to 9999 when shipped from the factory.

P A S W O R D O K !

S R 0 0 1 ✓ a b c d e f g

4. When the correct password is entered, [PASSWORD OK!] is displayed and the display flashes "✓" or ":".
5. Set parental lock on/off using the **▲** / **▼** cursor buttons on the unit or remote controller, then confirm the setting using the **ENTER** button on the unit or remote controller.

"✓" Lock status

":" Unlock status

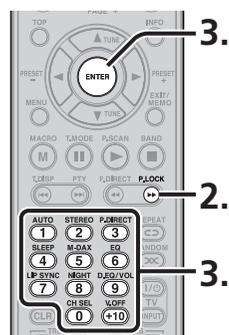
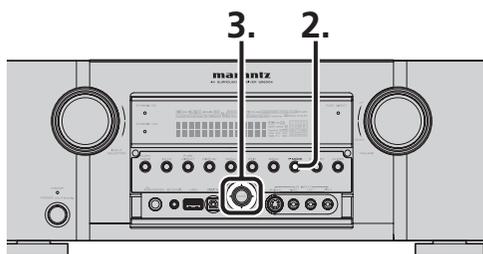
You can unlock all locked channels at this time by pressing the **CLEAR** button on the unit or **CLR** button on the remote controller for 5 seconds. When "ALL UNLOCK?" is displayed, press the **ENTER** button on the unit or remote controller. "UNLOCKING.." is displayed and all locked channels are unlocked.

Notes

- If you mistakenly enter the wrong password, you will be asked to reenter the password.
- You can exit parental lock mode using the **EXIT** button on the unit or **CLR** button on the remote controller.
- No sound will be output when you tune to a locked channel.
- Although parental lock can be set for more than one channel, all channels will share the same password.
- You cannot set Parental Lock for Channel 0.

ADVANCED OPERATION

TEMPORARILY LISTENING TO A LOCKED CHANNEL

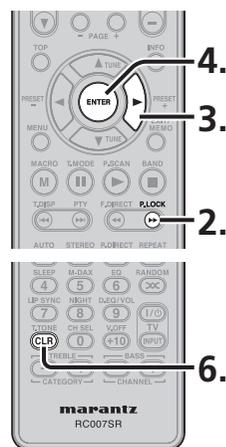
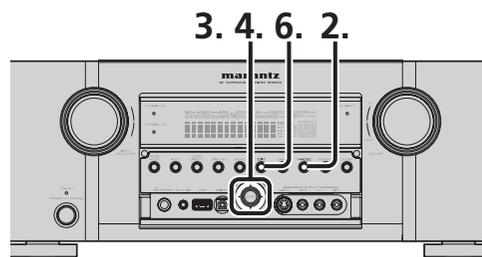


1. Tune to the locked channel you want to listen to.
2. Press the **T.MODE** button on the unit or the **P.LOCK** button on the remote controller.
3. When [PASSWORD ****] appears, use the cursor buttons on the unit or remote controller, or the numeric buttons on the remote controller, to enter a password (4 digits), then press the **ENTER** button on the unit or remote controller.
4. When the correct password is entered, [PASSWORD OK!] is displayed and you can temporarily listen to the channel.

Notes

- You can cancel temporary listening by pressing the **EXIT** button on the unit or **CLR** button on the remote controller.
- Since the purpose is to listen temporarily to a locked channel, lock status is restored if the channel is changed, the function is changed, the power is turned on/off, or any other such operation is performed. If you want to release lock status, see "Setting/Releasing Parental Lock."

CHANGING THE PASSWORD



1. Set to receive SIRIUS Satellite Radio.
2. Press the **T.MODE** button on the unit or the **P.LOCK** button on the remote controller.
3. When [PASSWORD ****] appears, use the cursor buttons on the unit or remote controller, or the numeric button on the remote controller, to enter a password (4 digits), then, with the cursor located at the far right, press the **▶** cursor button on the unit or remote controller.

P A S W O R D 9 9 9 9

N E W W O R D _ _ _ _

4. When [NEW WORD _ _ _ _] is displayed, enter a new password, then press the **ENTER** button on the unit or remote controller.
5. When [WORD CHANGED] is displayed, the password has been changed.
6. Press the **EXIT** button on the unit or **CLR** button on the remote controller.

Note

If the unit is reset the password will be reset to 9999.
(See page 82)

ADVANCED OPERATION

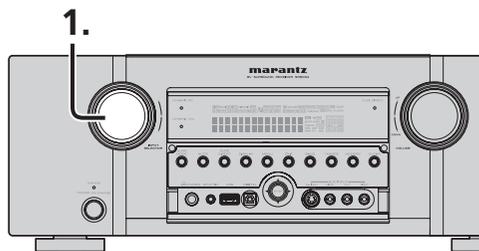
USB OPERATION (SR6004 ONLY)

The unit comes with a USB connection terminal, allowing any USB Mass Storage Class standard-compliant USB media to be used.

For details on the file systems and music files of the USB media supported by the unit, refer to page 64.

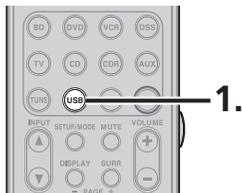
PREPARATIONS FOR USB OPERATION

(Using the unit)



1. To select USB, turn the **INPUT SELECTOR** knob on the front panel.

(Using the remote controller)



1. Press the **USB** button two times in a row.
2. The top menu screen is displayed.

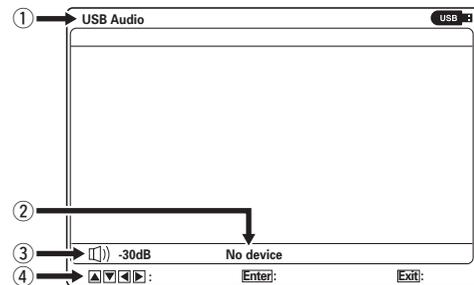
WHAT APPEARS ON THE FL DISPLAY



- ① **Function display:**
Displays the names of the functions.
- ② **Status display:**
Displays the statuses of the USB function. Error messages are also displayed. (See page 63)

WHAT APPEARS ON THE MONITOR SCREEN

(TOP MENU)

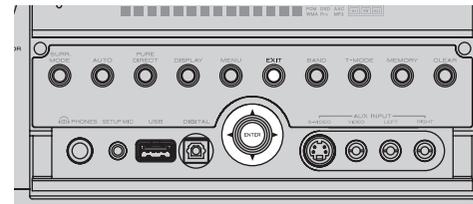


- ① **Function display:**
Displays the names of the functions.
- ② **Status display:**
Displays the statuses of the USB function. (See page 58)
- ③ **Volume display:**
Displays the volume level.
- ④ **Guidance display:**
Displays descriptions of the function keys.

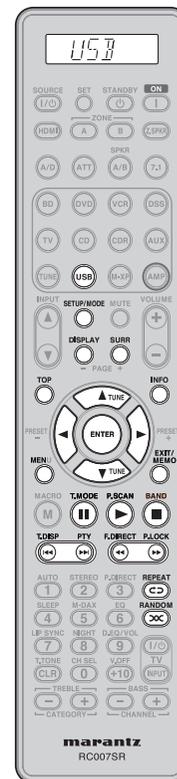
Notes

- The characters that can be displayed on the unit's front panel display and monitor screens are ASCII characters and some Latin characters. Characters that cannot be displayed are converted into asterisks ("*"), and displayed. With some music information or filenames, however, the characters may not be displayed correctly.
- If no operation is performed for 10 minutes or longer, the screen saver display appears on the monitor screen.
- The screen saver can be enabled or disabled by holding down **ENTER** (either on the unit or remote controller) for 3 seconds on the top menu screen.

UNIT



REMOTE CONTROLLER



	USB operation
▲/▼ (Remote controller, main unit)	Moves the cursor
▶ (Remote controller, main unit)	Moves to the folder one level lower
◀ (Remote controller, main unit)	Moves to the folder one level higher
ENTER (Remote controller, main unit)	Moves to the selected folder when the cursor is positioned on the folder Plays the selected file when the cursor is positioned on the file
EXIT (Remote controller, main unit)	Stops
■ (STOP) (Remote controller)	Stops
TOP (Remote controller)	Moves to the highest level folder, highest hierarchical level
PAGE+/- (Remote controller)	(+) Moves to the next page (-) Moves to the previous page
▶ (PLAY) (Remote controller)	Plays
 (PAUSE) (Remote controller)	Pauses/releases
▶▶ (SKIP) (Remote controller)	▶▶ Plays the next file ◀◀ Plays the previous file (Moves to the head of the file if the file has been played less than 1 second from the head of the file)
◀◀ (SEARCH) (Remote controller)	▶▶ Initiates fast forward ◀◀ Initiates fast reverse (The speed can be changed each time the button is pressed.)
INFO (Remote controller)	Switches between the list screen and status screen
REPEAT (Remote controller)	Repeats
RANDOM (Remote controller)	Conducts random-play
MENU (Remote controller)	-
SETUP/MODE (Remote controller)	-

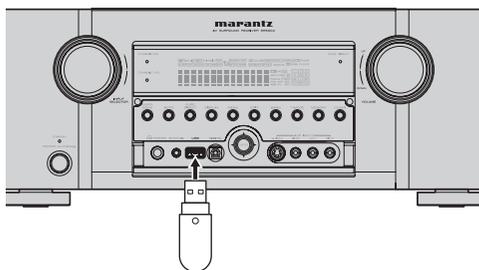
- When performing operations using the remote controller, press the **USB** button once to switch the remote controller to USB mode.

NAMES AND FUNCTIONS
 BASIC CONNECTIONS
 BASIC OPERATION
 ADVANCED CONNECTIONS
 SETUP
 ADVANCED OPERATION
 TROUBLESHOOTING
 OTHERS

ADVANCED OPERATION

CONNECTING USB MEDIA

1. Connect the USB media containing the music files to the USB connector on the unit's front panel.



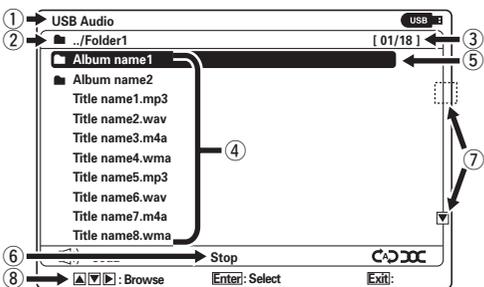
2. The folders and music files contained on the USB media are displayed as a list.

WHAT APPEARS ON THE FL DISPLAY



- 1 **Function display/main folder name:**
Displays the names of the functions and main folders.
- 2 **Cursor information:**
Displays the currently selected file and folder.

WHAT APPEARS ON THE MONITOR SCREEN (FILE LIST)



- 1 **Function display:**
Displays the names of the functions.
- 2 **Name of main folder:**
Displays the name of the main folder currently listed and displayed.
- 3 **List number/total number:**
Displays the list number at the cursor position and the total number of files and subfolders.
- 4 **Subfolders, file list:**
Displays the subfolders and files in the order in which they were stored on the storage media. When files and folders are mixed, the folders are displayed first.
- 5 **Selection cursor:**
Selects files and folders.
- 6 **Play status:**
Displays the play status of the file being played.
- 7 **Page indicator:**
Appears when the list pages can be scrolled up or down.
- 8 **Guidance display:**
Displays descriptions of the function buttons.

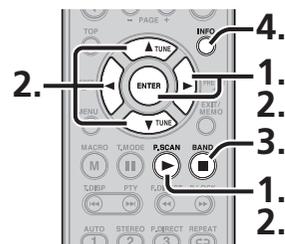
ICON DISPLAYS

- : Folders (main folders, subfolders)
- : Files being played

Note

When playing an audio file less than 5 seconds long, the unit may not play it properly or it may not display its music information properly.

PLAYING FILES ON THE USB MEDIA



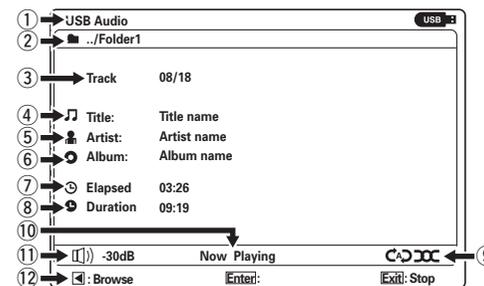
1. Select the tracks to be played, and press the **ENTER** or **▶ (PLAY)** button. The status display screen appears, and the tracks are played in file list order.
2. To play another file while a file is playing, press the **◀** button, and display the file list. Use the **▲/▼** buttons to move the icon to the desired track, and press the **ENTER** or **▶ (PLAY)** button.
3. To stop playback, press the **■** button.
4. To return to the status screen while the list screen is displayed, press the **INFO** button.

WHAT APPEARS ON THE FL DISPLAY



- 1 **Function display/name of artist:**
Displays the function name and artist name. If there is no artist name, "Unknown Artist" is displayed instead.
- 2 **Playback status/title:**
Displays the playback status and title. If the title is unknown, the filename minus its extension is displayed.

WHAT APPEARS ON THE MONITOR SCREEN (STATUSES)



- 1 **Function display:**
Displays the names of the functions.
- 2 **Status display:**
Displays the statuses of the USB function. Error messages are also displayed.
- 3 **Current file number/total number of files:**
Displays the number of the file currently playing and the total number of files contained in the main folder.
- 4 **Title display:**
Displays the title of the file being played. The filename is displayed if there is no tag information.
- 5 **Artist name display:**
Displays the name of the play file artist. "Unknown Artist" appears if there is no artist name.
- 6 **Album name display:**
Displays the name of the play file album. "Unknown Album" appears if there is no album name.
- 7 **Elapsed time:**
Displays the elapsed play time of the file.
- 8 **Duration time:**
Displays the total play time of the file.
- 9 **Repeat/random statuses:**
Displays the repeat and random statuses. They are not displayed when the settings are OFF.
- 10 **Play status:**
Displays the play status of the currently selected file.

- 11 **Volume display:**
Displays the volume level.
- 12 **Guidance display:**
Displays descriptions of the function buttons.

ICON DISPLAYS

The following icons are displayed on the screen.

- : Folder (main folder)
- : File
- : Artist
- : Album
- : Elapsed time
- : Duration time
- : All files repeat
- : Folder file repeat
- : 1 file repeat
- : Random-play

LISTENING TO FILES REPEATEDLY (REPEAT PLAY)

The tracks on the USB media can be played in 1 track (1 file) repeat mode, folder file repeat mode or all tracks (all files) repeat mode.



Each time the remote controller's **REPEAT** button is pressed, the modes are selected in the following order.



Note

When playing files in folder file repeat mode, the files in the selected main folder will be played repeatedly. (Play does not include files in the subfolders.)

PLAYING TRACKS AT RANDOM (RANDOM PLAY)

The files contained on the USB media can be played at random.



Each time the remote controller's **RANDOM** button is pressed, random play is changed from ON to OFF or vice versa.

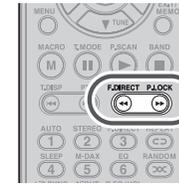
The range of random play differs depending on the repeat play setting.

Repeat off : All audio files on the USB device are played at random.

Repeat on : The files in the play range of the repeat settings are played repeatedly at random.

Random play is started when the **▶** button is pressed while ON is selected.

PLAYING SPECIFIC PARTS (SEARCH)



Search is started when the remote controller's **◀** or **▶** button is pressed during play. The search speed can then be changed by pressing the remote controller's **◀** or **▶** button.

- Search + / Search -
Each time the **▶** (Search +) or **◀** (Search -) button is pressed, the speed is changed by one setting in the following sequence.

SEARCH 1 + → SEARCH 2 + → SEARCH 3 + → PLAY → SEARCH 1 + →
SEARCH 1 - → SEARCH 2 - → SEARCH 3 - → PLAY → SEARCH 1 - →

Search mode	What appears on the monitor display	Operations that appear on the FL display	Movement
SEARCH 1 +/-	(+) 1 Search +	(+) 1 ▶▶	Rapid advance at 2x normal speed
	(-) 1 Search -	(-) 1 ◀◀	Rapid reverse at 2x normal speed
SEARCH 2 +/-	(+) 2 Search +	(+) 2 ▶▶	Rapid advance at 4x normal speed
	(-) 2 Search -	(-) 2 ◀◀	Rapid reverse at 4x normal speed
SEARCH 3 +/-	(+) 3 Search +	(+) 3 ▶▶	Rapid advance at 10x normal speed
	(-) 3 Search -	(-) 3 ◀◀	Rapid reverse at 10x normal speed

ADVANCED OPERATION

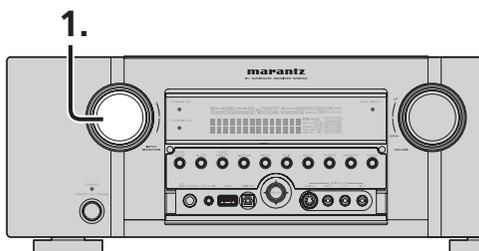
iPod OPERATION (SR6004 ONLY)

When an iPod (fifth or later generation), iPod nano, iPod classic, iPod touch or iPhone is connected to the unit, the sound from the iPod is transmitted digitally (using linear pulse code modulation (LPCM) encoding), and it can be reproduced with a higher sound quality.

For details of the types of music files and iPods/iPhones supported, refer to page 64.

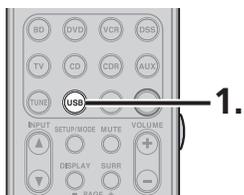
PREPARATIONS FOR iPod OPERATION

(Using the unit)



1. To select USB, turn the **INPUT SELECTOR** knob on the front panel.

(Using the remote controller)



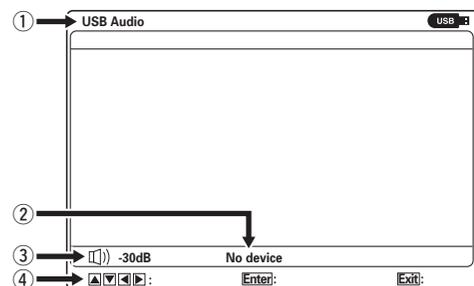
1. Press the **USB** button two times in a row.
2. The top menu screen is displayed.

WHAT APPEARS ON THE FL DISPLAY



- ① **Function display:**
Displays the names of the functions.
- ② **Status display:**
Displays the statuses of the USB function. Error messages are also displayed. (See page 61)

WHAT APPEARS ON THE MONITOR SCREEN (TOP MENU)

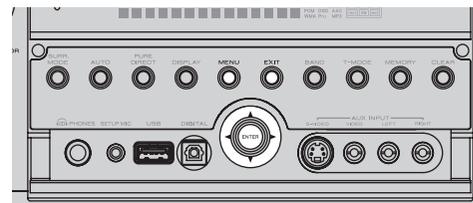


- ① **Function display:**
Displays the names of the functions.
- ② **Status display:**
Displays the statuses of the USB function. (See page 61)
- ③ **Volume display:**
Displays the volume level.
- ④ **Guidance display:**
Displays descriptions of the function keys.

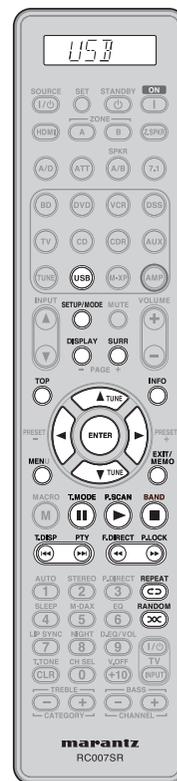
Notes

- The characters that can be displayed on the unit's front panel display and monitor screens are ASCII characters and some Latin characters. Characters that cannot be displayed are converted into asterisks ("*"), and displayed. With some music information or filenames, however, the characters may not be displayed correctly.
- If no operation is performed for 10 minutes or longer, the screen saver display appears on the monitor screen.
- The screen saver can be enabled or disabled by holding down **ENTER** (either on the unit or remote controller) for 3 seconds on the top menu screen.

UNIT



REMOTE CONTROLLER



	iPod operation
▲/▼ (Remote controller, main unit)	Moves the cursor
▶ (Remote controller, main unit)	Moves to the item one level lower
◀ (Remote controller, main unit)	Moves to the item one level higher
ENTER (Remote controller, main unit)	Moves to within the selected item when the cursor is positioned on the item Plays the selected track when the cursor is positioned on the track
EXIT (Remote controller, main unit)	Stops
■ (STOP) (Remote controller)	Stops
TOP (Remote controller)	Moves to the highest level
PAGE+/- (Remote controller)	(+) Moves to the next page (-) Moves to the previous page
▶ (PLAY) (Remote controller)	Plays
 (PAUSE) (Remote controller)	Pauses
◀ / ▶ (SKIP) (Remote controller)	(▶) Plays the next track (◀) Plays the previous track
◀ / ▶ (SEARCH) (Remote controller)	(▶) Initiates fast forward (◀) Initiates fast reverse (When the corresponding button is held down)
INFO (Remote controller)	In remote mode: Switches between the list screen and status screen In direct mode: Switches between the the image from AUX and status screen
REPEAT (Remote controller)	Repeats
RANDOM (Remote controller)	Shuffles items
MENU (Remote controller)	Moves to the item one level higher
SETUP/MODE (Remote controller)	Switches between direct mode and remote mode

- When performing operations using the remote controller, press the **USB** button once to switch the remote controller to USB mode.

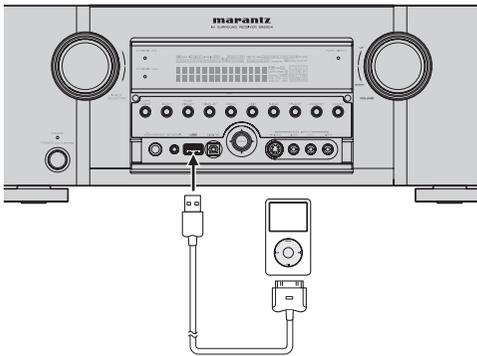
CONNECTING THE iPod

The unit has two modes, direct mode and remote mode, for operating the iPod.

When the unit's power is turned on, the unit is set to direct mode.

1. Connect the iPod to the USB terminal on the unit's front panel.

When the iPod is detected, the function display changes from the display for USB to the display for iPod.



2. The track information of the track being played or being paused is displayed on the unit's front panel.

The images of the video component connected to the VIDEO terminal among AUX INPUT terminals on the front panel can be output to a monitor. (Direct mode only)

Notes

- For details on supported iPod models, refer to page 64.
- Direct mode does not support fifth generation iPods or first generation iPod nanos. When one of these iPods has been connected, the "Press mode key" message appears. Press the MODE button to change to remote mode, and use the iPod in this mode. (For details on switching the mode, refer to page 60.)
- When a TV set is connected using the HDMI terminal, some moments may be needed until the display is switched after the INFO button is pressed.
- Depending on the video player components connect to the AUX INPUT terminals, the start of the content may be skipped when play is commenced.

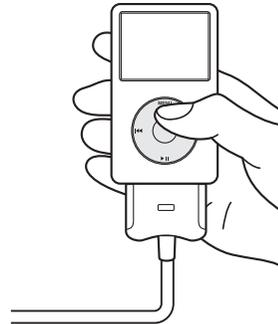
WHAT APPEARS ON THE FL DISPLAY



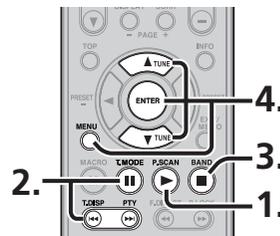
1. **Function display/name of artist:**
Displays the names of the function and artist.
2. **Playback status/title:**
Displays the playback status and title.

PLAYING TRACKS ON THE iPod (DIRECT MODE)

In this mode, the operations are performed using the controls of the iPod.



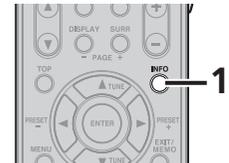
The iPod's basic operations can also be performed using the unit's remote controller.



1. To play a track, press the ► button.
2. To temporarily stop (pause) play, press the || button.
To move to the next track during play, press the ►► button; to move to the start of the track while that tracking is playing or to move to the previous track, press the ◀◀ button.
3. To stop play, press the ■ button.
4. Other than the buttons mentioned above, the ▲/▼, ENTER and MENU buttons can be used.

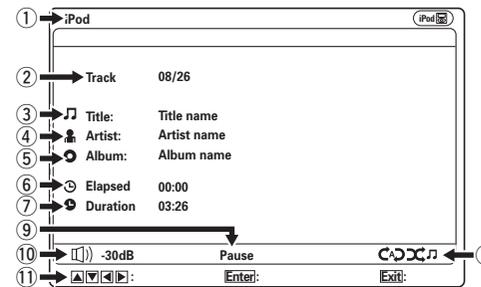
VIEWING THE STATUS SCREEN

In direct mode, the images from AUX are usually output to the monitor, but it is possible to view the information (status screen) of the track now playing instead.



1. Each time the INFO button is pressed, the display switches between the status screen and images from the AUX.

WHAT APPEARS ON THE MONITOR SCREEN (STATUSES)



1. **Function display:**
Displays the names of the functions.
2. **Current track number/total number of tracks:**
Displays the number of track now playing and the total number of tracks in the current item.
3. **Title display:**
Displays the title of the track being played.
4. **Artist name display:**
Displays the name of the play track artist. "Unknown Artist" appears if there is no artist name.
5. **Album name display:**
Displays the name of the play track album. "Unknown Album" appears if there is no album name.

6. **Elapsed time:**
Displays the elapsed play time of the file.
7. **Duration time:**
Displays the total play time of the file.
8. **Repeat/shuffle statuses:**
Displays the repeat and shuffle statuses. They are not displayed when the settings are OFF.
9. **Play status:**
Displays the play status of the currently selected file.
10. **Volume display:**
Displays the volume level.
11. **Guidance display:**
Displays descriptions of the function buttons.

ICON DISPLAYS

- 🎵 : Song
- 👤 : Artist
- 📀 : Album
- 🕒 : Elapsed time
- 🕒 : Duration time
- 🔄 : All tracks repeat
- 🔄 : One track repeat
- 🔀 : Tracks shuffle
- 🔀 : Albums shuffle

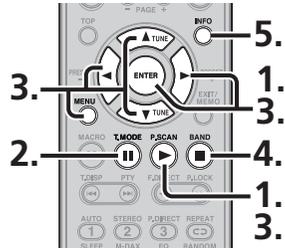
Note

The Repeat/Shuffle icon may not be displayed correctly.

ADVANCED OPERATION

PLAYING TRACKS ON THE iPod (REMOTE MODE)

To select a track while viewing the monitor screen, change to remote mode. (Refer to page 60.) It will not be possible to perform operations using the iPod's controls as long as the unit is in remote mode.



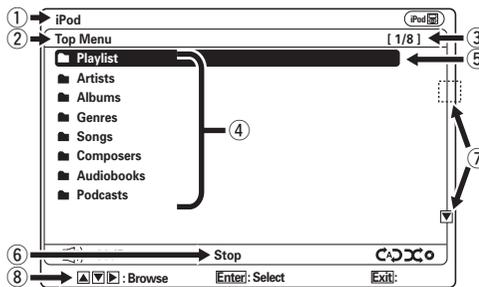
1. Select the track to be played, and press the **ENTER** or **▶** (PLAY) button. The status screen is displayed, and the track starts playing in the title or list sequence.
2. To temporarily stop (pause) play, press the **II** button.
3. To play another track at any point during play, press the **MENU** or **◀** button to display the items. Use the **▲/▼** buttons to move to the desired track, and press the **ENTER** or **▶** button.
4. To stop play, press the **■** button.
5. To return to the status screen while the list screen is displayed, press the **INFO** button.

WHAT APPEARS ON THE FL DISPLAY



- ① **Function display/name of the item one level higher:**
Displays the function name and name of the item one level higher.
- ② **Cursor information:**
Displays the currently selected track and item name.

WHAT APPEARS ON THE MONITOR SCREEN (ITEM LIST)



- ① **Function display:**
Displays the names of the functions.
- ② **Name of the item one level higher:**
Displays the name of the item one level higher.
- ③ **List number/total number of items or tracks:**
Displays the list number at the cursor position/total number of items or tracks.
- ④ **Item or track list:**
Displays the list of items or tracks.
- ⑤ **Selection cursor:**
Selects the items or tracks.
- ⑥ **Play status:**
Displays the play status of the file being played.
- ⑦ **Page indicator:**
Appears when the list pages can be scrolled up or down.
- ⑧ **Guidance display:**
Displays descriptions of the function buttons.

ICON DISPLAYS

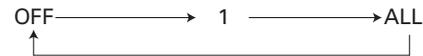
: Item icon

LISTENING TO TRACKS REPEATEDLY (REPEAT PLAY)

Change the repeat setting of the iPod.



Each time the remote controller's **REPEAT** button is pressed, the modes are selected in the following order.

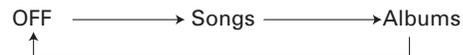


SHUFFLING THE TRACKS AND LISTENING TO THEM (SHUFFLE PLAY)

Change the shuffle setting of the iPod.



Each time the **RANDOM** button on the remote controller is pressed, the setting is switched in the sequence shown below.

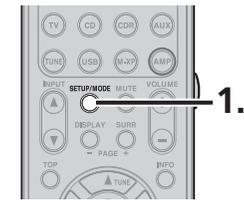


PLAYING SPECIFIC PARTS (SEARCH)



When the **◀▶** or **▶▶** button of the remote controller is held down during play, a search is started.

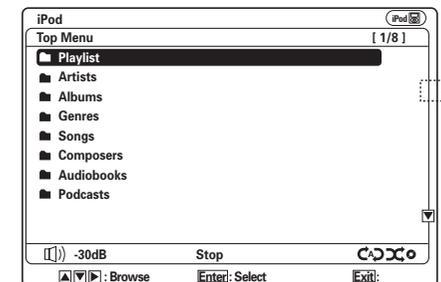
CHANGING THE OPERATION MODE OF THE iPod



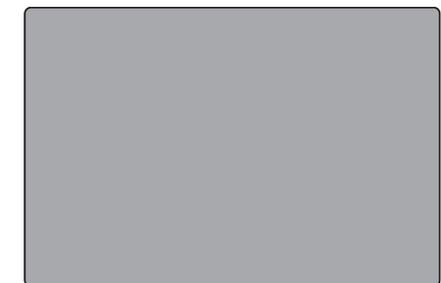
1. Press the **SETUP/MODE** button. The iPod operation mode changes. (Direct mode ↔ Remote mode)

Direct mode is restored when the iPod is disconnected or the main unit's power is turned off while remote mode is established.

MONITOR SCREEN (REMOTE MODE)



MONITOR SCREEN (DIRECT MODE)



(AUX input - video)

In direct mode, the images from AUX are usually output to the monitor.

OTHERS (USB / iPod)

STATUS DISPLAYS

When any of the displays listed in the table below have appeared on the FL display, it means that the unit is one of the statuses listed below.

What appears on the FL display	What appears on the monitor display	Status
N O D E V I C E	No device	The USB or iPod has not been connected properly.
C H E C K D E V I C E	Check device	An unrecognizable device has been connected.
C H E C K F S	Check FS	USB media with an unsupported file system has been connected.
! O V E R C U R R E N T !	!Over current!	The overcurrent protection function of the unit's USB connector has been triggered.
N O A U D I O F I L E	No audio file	USB media with no playback files recorded on it has been connected.
C H E C K F I L E	Check file	The unit has attempted to play a non-playable file.
P R E S S T O P K E Y	Press top key	The reading of the file failed.
P R E S S M O D E K E Y	Press mode key	An iPod that does not operate correctly in direct mode was connected.
C H E C K i P o d	Check iPod	The iPod cannot be detected properly.

SUPPORTED MEDIA (USB)

- Do not connect a personal computer to the unit's USB connector. Music cannot be imported to the unit's USB connector from a personal computer.
- It may not be possible to use a media device that has been plugged into a USB card reader.
- Depending on the USB media being used, it may take some time to read the data.
- Depending on the USB media being used, it may not be possible to read the data correctly or the power may not be supplied correctly.
- Users should bear in mind that we will not be liable in any way for any losses of or changes to data or for any media malfunctions which occur while the USB media device is being used. We recommend that you make a backup of any data stored on USB media before using the media in this unit.

Specifications	Compliance with USB 2.0 full speed
Connections supported	Devices in compliance with the USB Mass Storage Class standard – USB flash memory devices (sizes of 256MB and up supported) – HDDs supporting USB connections – When a portable audio player is used as a USB memory devices
Sub class	SCSI

FILE SYSTEMS SUPPORTED (USB)

- When USB media is partitioned, the unit can read only the first partition. Furthermore, depending on the partition configuration, it may not be possible to read the partition correctly.

Formats	FAT16 / FAT32
Hierarchy	Hierarchical levels of folders whose files can be played hierarchically: Max. 8 levels excluding the root
Partition	Basic area of less than 255 GBytes in head partition.
Maximum number of folders	700
Maximum number of files	65535
Maximum number of folder characters	64 Byte (VFAT long names supported)
Maximum number of file characters	640Byte (VFAT long names supported) Extensions (.xxx) included

ADVANCED OPERATION

PLAYABLE FILE FORMATS (USB)

- Copyright-protected audio files cannot be played using the unit.
- Playlists are not supported.
- Even if the selected music files were recorded in a format supported by the unit, it may not be possible to play them or noise may be heard.

Standards supported	Extension	Character information supported	Standard	Range supported	
				Sampling frequency	Bit rate
MP3	mp3	ID3V1/ID3V2	MPEG-1 Layer-III	Sampling frequency	32kHz – 48kHz
				Bit rate	32kbps – 320kbps (CBR/VBR)
	mp3	ID3V1/ID3V2	MPEG-2 LSF Layer-III	Sampling frequency	16kHz – 24kHz
				Bit rate	8kbps – 160kbps (CBR/VBR)
WMA	wma	WMA Tag	Microsoft Windows Media Audio 9.2 supported	Sampling frequency	32kHz – 48kHz
				Bit rate	8kbps – 160kbps (CBR) Peak 384kbps (VBR)
AAC	m4a	AAC header (iTunes content information)	MPEG-2/4 AAC LC	Sampling frequency	8kHz – 48kHz
				Bit rate	8kbps – 320kbps (CBR/VBR)
WAV	wav	None	RIFF Waveform Audio Format	Sampling frequency	32kHz – 48kHz
				Bit number	16bit

ABOUT iPod PLAY BACK

- Supported iPod Models

Made for

- iPod touch (2nd generation)
- iPod touch (1st generation)
- iPod classic
- iPod with video
- iPod nano (4th generation)
- iPod nano (3rd generation)
- iPod nano (2nd generation)
- iPod nano (1st generation)

Works with

- iPhone
- iPhone 3G



iPod touch
1st generation
8GB 16GB 32GB



iPod touch
2nd generation
8GB 16GB 32GB



iPod classic
80GB 160GB



iPod classic
120GB



iPod
5th generation
(video)
30GB



iPod
5th generation
(video)
60GB 80GB



iPod nano
4th generation (video)
8GB 16GB



iPod nano
3rd generation
(video)
4GB 8GB



iPod nano
2nd generation
(aluminum)
2GB 4GB 8GB



iPod nano
1st generation
1GB 2GB 4GB



iPhone
4GB 8GB 16GB



iPhone 3G
8GB 16GB

- Some operations may differ depending on the iPod model.
- If the iPod's software is old, it may not operate properly. Please be sure to use up-to-date iPod software.
- The iPod is a device licensed for the private duplication and playback of uncopyrighted material or material for which duplication and playback are legally permitted. Violation of copyright is legally prohibited.
- The iPod equalizer cannot be operated from the unit. Before connecting an iPod to this unit, it is recommended that the iPod equalizer be set to "OFF".
- It is recommended to set "Clicker" setting of the iPod to "Off" or "Speaker".
- Please note that we offer no compensation if problems occur in the iPod data when using this unit with an iPod.
- Any files that can be played on an iPod(AAC, MP3, Apple Lossless, WAV and AIFF) can be played on this unit.

ZONE SYSTEM

The ZONE System mode allows the same source or different sources to be heard in two ZONEs other than where this unit is installed.

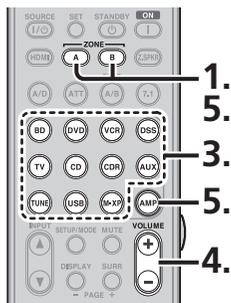
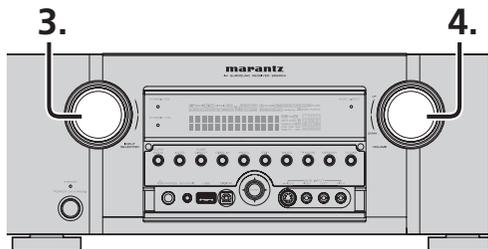
To use the ZONE system, connect the audio from the ZONE OUT A and B AUDIO output terminals to the ZONE A and B amps.

If a surround back channel speaker or speaker C (see page 21) are not used in the ZONE where this unit is installed, the ZONE speaker system can be used with the amp for the surround back channel.

This unit supports ZONE system functions such as source selectors, ZONE speaker output, sleep timers and remote control.

The unit shown in the illustrations is SR6004.

ZONE PLAYBACK USING THE ZONE OUT TERMINALS



1. Press the **ZONE A** or **B** button on the remote controller.
2. When the ZONE setting mode is engaged, one of the following screens appears on the display for 10 seconds.

* Display when ZONE A is selected

Z A D V D - 1 8 d B

* Display when ZONE B is selected

Z B D V D (D 2)

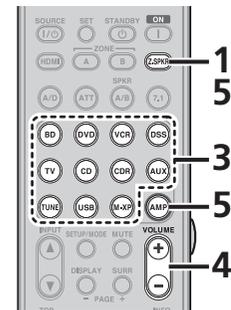
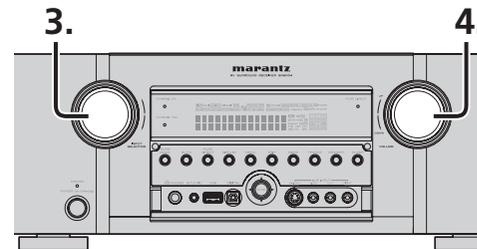
3. Select the input source using the **INPUT SELECTOR** knob on the unit or the function button on the remote controller.
4. Set the ZONE volume to be used by the ZONE system to taste either by turning the **VOLUME** knob on the unit or by pressing the **VOLUME +/-** buttons on the remote controller.
5. To cancel this function, press the **ZONE A** or **B** button on the remote controller (after pressing the **AMP** button on the remote controller). "MULTI" indicator on the front panel will be turned off.

Notes

- In ZONE A, it is impossible to use HDMI or digital input (optically or coaxially connected) sources.
- In ZONE B, it is possible to use only digital input (optically or coaxially connected) sources.
- The sleep timer, monaural output and other features can also be set using the MAIN MENU. (See page 36)
- The volume for ZONE B cannot be set on the unit. Control the volume by adjusting it on the amp connected to ZONE B OUT.
- When component video output is not being used in the main ZONE, it can be used for ZONE A instead. Refer to page 35. (SR6004 only)

ZONE PLAYBACK USING THE ZONE SPEAKER A TERMINALS

This unit allows you to connect another set of speakers amp and place them in a different ZONE or separated area for listening to music.



1. Press the **ZONE SPEAKER (Z.SPKR)** button on the remote controller.
2. When the ZONE SPEAKER setting mode is engaged, one of the following screens appears on the display for 10 seconds.

* Display when ZONE SPEAKER A is selected

Z S A D V D - 1 8 d B

3. Select the input source using the **INPUT SELECTOR** knob on the unit or the function button on the remote controller.
4. Set the ZONE volume to be used by the ZONE system to your own preference, either by turning the **VOLUME** knob on the main unit or by pressing the **VOLUME +/-** buttons on the remote controller.

5. To cancel this function, press the **Z.SPKR** button on the remote controller (after pressing the **AMP** button on the remote controller). "MULTI" indicator on the front panel will be turned off.

Notes

- Digital input (optically and coaxially connected) sources cannot be used for ZONE speaker A.
- The sleep timer, monaural output and other features can also be set using the MAIN MENU. (See page 36.)

Notes for ZONE Speaker

- The ZONE Speaker mode can be set for only one of the ZONE A.
- The ZONE SPEAKER output can be used when Surround Back Speaker = "None, Zone SPKR" in the SPEAKER SETUP menu. (See SPEAKER SETUP, page 31)
- "Check! Height or Surr Back Speakers" is displayed when the ZONE SPEAKER button is pressed when the Surround Back Speaker is not set to "None, Zone SPKR" in the SPEAKER SETUP menu. (See SPEAKER SETUP, page 31)
- The ZONE speaker mode cannot be used at the same time as the speaker C. When connecting for ZONE use, set the **SPEAKER C** selector switch on the rear panel to OFF.
- When the unit is put in ZONE SPEAKER mode and ZSPA has been set as the Surround Back or Front Height Speaker (page 31), the ZONE SPEAKER function can be turned on automatically simply by pressing the **SOURCE** button.

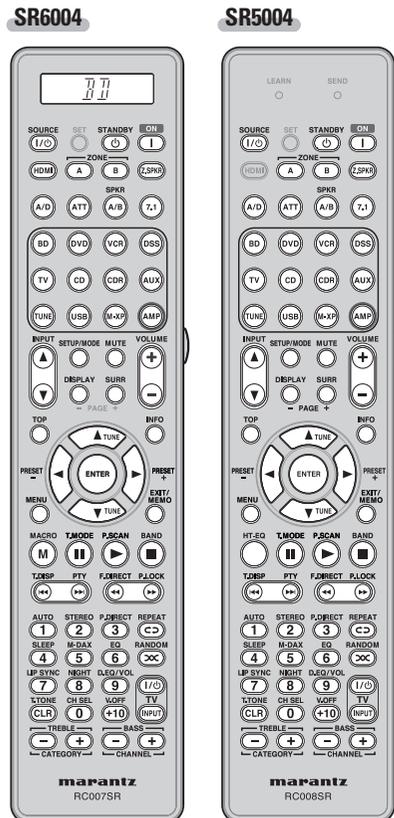
ADVANCED OPERATION

REMOTE CONTROLLER OPERATION

CONTROLLING MARANTZ COMPONENTS

1. Press the desired **SOURCE** button.
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.

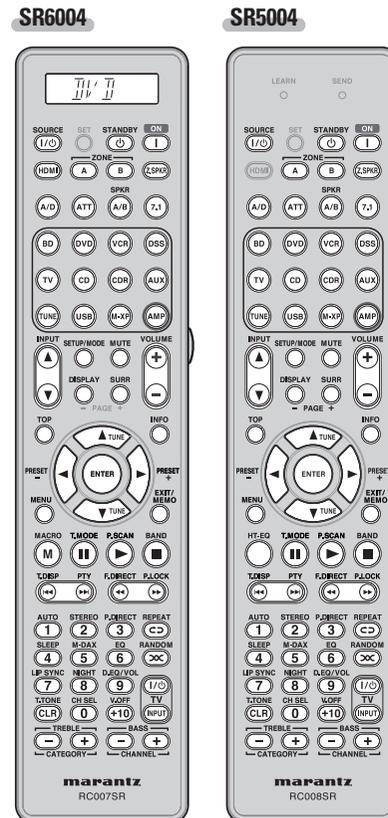
CONTROLLING A MARANTZ BD (BD MODE)



SOURCE ON/OFF	Turns the BD player on and off
POWER OFF	Turns the BD player off(*)
POWER ON	Turns the BD player on(*)
HDMI (SR6004 only)	AMP function enabled
Z.SPKR	AMP function enabled
ZONE A/B	AMP function enabled
A/D	AMP function enabled
ATT	AMP function enabled
7.1	AMP function enabled
SPKR A/B	AMP function enabled
SOURCE	AMP function enabled
AMP	AMP function enabled
INPUT ▲ / ▼	AMP function enabled
SETUP	Calls up the setup menu of the BD player(*)
DISPLAY	AMP function enabled
MUTE	AMP function enabled
SURR	AMP function enabled
VOLUME +/-	AMP function enabled
TOP	Calls up the top menu of the disc(*)
INFO	Displays the disc information(*)
CURSOR	Moves the cursor for setting in "On Screen Display" mode
ENTER	Enters the setting
MENU	Calls up the menu of the disc
EXIT	Exits from SETUP MENU(*)
MACRO (M) (RC007SR only)	Selects the MACRO mode
HT-EQ (RC008SR only)	AMP function enabled
PAUSE	PAUSE
PLAY	PLAY
STOP	STOP
PREVIOUS/NEXT	Skips forward or previous chapter/track
REWIND/FORWARD	Searches forward or backward
0-9 +10	Inputs the numeric(*)
T.TONE(CLR)	Clears the inputting(*)
REPEAT	Selects REPEAT PLAY(*)
RANDOM	Selects RANDOM PLAY(*)
TV POWER	Turns the TV on and off
TV INPUT	Selects the TV video input
TREBLE -/+	AMP function enabled
BASS -/+	AMP function enabled

(*)Both RC007SR and RC008SR do not have the PRESET code library for these keys.

CONTROLLING A MARANTZ DVD (DVD MODE)



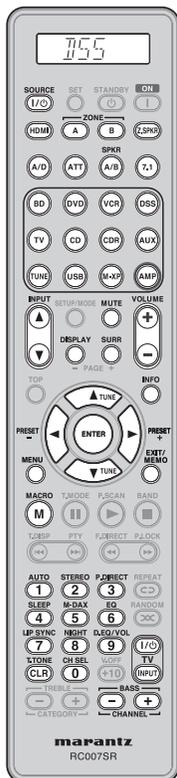
SOURCE ON/OFF	Turns the DVD player on and off
POWER OFF	Turns the DVD player off(*)
POWER ON	Turns the DVD player on(*)
HDMI (SR6004 only)	AMP function enabled
Z.SPKR	AMP function enabled
ZONE A/B	AMP function enabled
A/D	AMP function enabled
ATT	AMP function enabled
7.1	AMP function enabled
SPKR A/B	AMP function enabled
SOURCE	AMP function enabled
AMP	AMP function enabled
INPUT ▲ / ▼	AMP function enabled
SETUP	Calls up the setup menu of the DVD player(*)
DISPLAY	AMP function enabled
MUTE	AMP function enabled
SURR	AMP function enabled
VOLUME +/-	AMP function enabled
TOP	Calls up the top menu of DVD (*)
INFO	Displays the disc information(*)
CURSOR	Moves the cursor for setting in "On Screen Display" mode
ENTER	Enters the setting
MENU	Calls up the menu of DVD
EXIT	Exits from SETUP MENU(*)
MACRO (M) (RC007SR only)	Selects the MACRO mode
HT-EQ (RC008SR only)	AMP function enabled
PAUSE	PAUSE
PLAY	PLAY
STOP	STOP
PREVIOUS/NEXT	Skips forward or previous chapter/track
REWIND/FORWARD	Searches forward or backward
0-9 +10	Inputs the numeric(*)
T.TONE(CLR)	Clears the inputting(*)
REPEAT	Selects REPEAT PLAY(*)
RANDOM	Selects RANDOM PLAY(*)
TV POWER	Turns the TV on and off
TV INPUT	Selects the TV video input
TREBLE -/+	AMP function enabled
BASS -/+	AMP function enabled

(*)Both RC007SR and RC008SR do not have the PRESET code library for these keys.

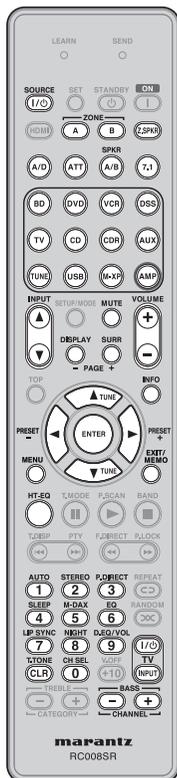
NAMES AND FUNCTIONS
BASIC CONNECTIONS
BASIC OPERATION
ADVANCED CONNECTIONS
SETUP
ADVANCED OPERATION
TROUBLESHOOTING
OTHERS

CONTROLLING A MARANTZ DSS (DSS MODE)

SR6004



SR5004

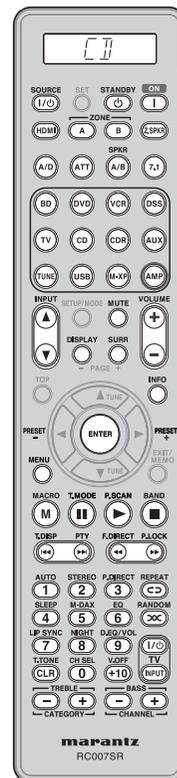


SOURCE ON/OFF	Turns the satellite broadcasting tuner on and off
HDMI (SR6004 only)	AMP function enabled
Z.SPKR	AMP function enabled
ZONE A/B	AMP function enabled
A/D	AMP function enabled
ATT	AMP function enabled
7.1	AMP function enabled
SPKR A/B	AMP function enabled
SOURCE	AMP function enabled
AMP	AMP function enabled
INPUT ▲ / ▼	AMP function enabled
DISPLAY	AMP function enabled
MUTE	AMP function enabled
SURR	AMP function enabled
VOLUME +/-	AMP function enabled
INFO	Display the information of the satellite broadcasting tuner(*)
CORSOR	Moves the cursor for setting
ENTER	Enters the setting
MENU	Calls up the menu
EXIT	Exits from MENU(*)
MACRO (M) (RC007SR only)	Selects the MACRO mode
HT-EQ (RC008SR only)	AMP function enabled
0-9	Inputs the numeric
T.TONE(CLR)	Clears the inputting(*)
TV POWER	Turns the TV on and off
TV INPUT	Selects the TV video input
BASS/CH	Selects the satellite broadcasting tuner channel up or down

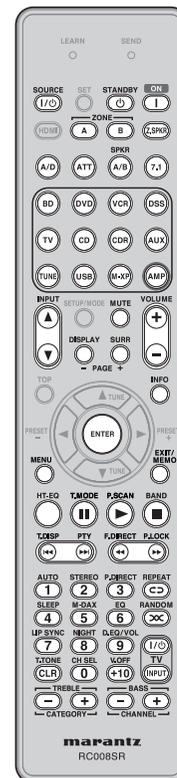
(*)Both RC007SR and RC008SR do not have the PRESET code library for these keys.

CONTROLLING A MARANTZ CD (CD MODE)

SR6004



SR5004



SOURCE ON/OFF	Turns the CD player on and off
POWER OFF	Turns the CD player off(*)
POWER ON	Turns the CD player on(*)
HDMI (SR6004 only)	AMP function enabled
Z.SPKR	AMP function enabled
ZONE A/B	AMP function enabled
A/D	AMP function enabled
ATT	AMP function enabled
SPKR A/B	AMP function enabled
7.1	AMP function enabled
SOURCE	AMP function enabled
AMP	AMP function enabled
INPUT ▲ / ▼	AMP function enabled
DISPLAY	AMP function enabled
MUTE	AMP function enabled
SURR	AMP function enabled
VOLUME +/-	AMP function enabled
INFO	AMP function enabled
ENTER	Enters the setting(*)
MENU	Calls up the menu(*)
MACRO (M) (RC007SR only)	Selects the MACRO mode
HT-EQ (RC008SR only)	AMP function enabled
PAUSE	PAUSE
PLAY	PLAY
STOP	STOP
Previous/Next	Skips forward or previous chapter/track
Rewind/Forward	Searchs forward or backward
0-9,+10	Inputs the numeric(*)
T.TONE(CLR)	Clears the inputting(*)
REPEAT	Selects REPEAT PLAY(*)
RANDOM	Selects RANDOM PLAY(*)
TV POWER	Turns the TV on and off
TV INPUT	Selects the TV video input
TREBLE +/-	AMP function enabled
BASS +/-	AMP function enabled

(*)Both RC007SR and RC008SR do not have the PRESET code library for these keys.

NAMES AND FUNCTIONS

BASIC CONNECTIONS

BASIC OPERATION

ADVANCED CONNECTIONS

SETUP

ADVANCED OPERATION

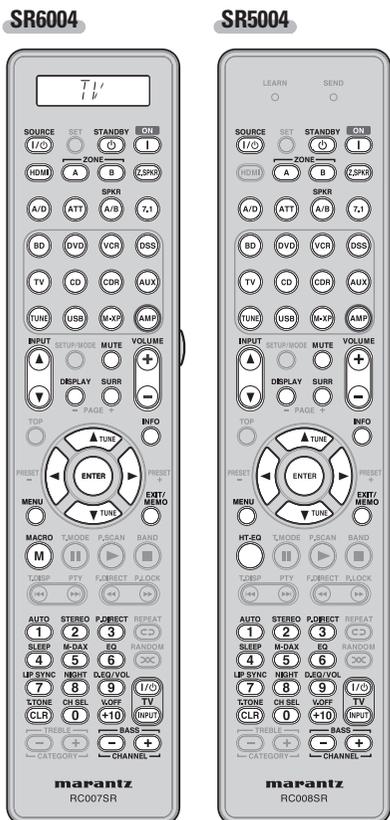
TROUBLESHOOTING

OTHERS

ADVANCED OPERATION

NAMES AND FUNCTIONS
 BASIC CONNECTIONS
 BASIC OPERATION
 BASIC CONNECTIONS
 SETUP
 ADVANCED OPERATION
 TROUBLESHOOTING
 OTHERS

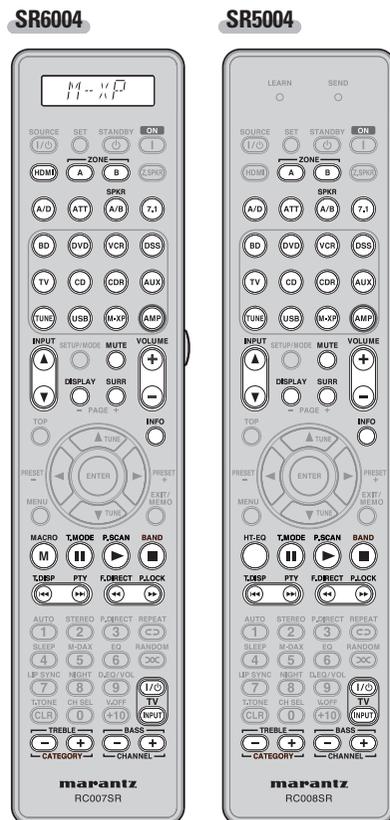
CONTROLLING A MARANTZ TV (TV MODE)



SOURCE ON/OFF	Turns the TV on and off
POWER OFF	Turns the TV off(*)
POWER ON	Turns the TV on(*)
HDMI (SR6004 only)	AMP function enabled
Z.SPKR	AMP function enabled
ZONE A/B	AMP function enabled
A/D	AMP function enabled
ATT	AMP function enabled
SPKR A/B	AMP function enabled
7.1	AMP function enabled
SOURCE	AMP function enabled
AMP	AMP function enabled
INPUT ▲ / ▼	AMP function enabled
DISPLAY	AMP function enabled
MUTE	AMP function enabled
SURR	AMP function enabled
VOLUME +/-	AMP function enabled
INFO	Display the information of TV(*)
CURSOR	Moves the cursor for setting (*)
ENTER	Enters the setting(*)
MENU	Calls up the menu(*)
EXIT	Exits from MENU(*)
MACRO (M) (RC007SR only)	Selects the MACRO mode
HT-EQ (RC008SR only)	AMP function enabled
0-9,+10	Inputs the numeric(*)
T.TONE(CLR)	Clears the inputting(*)
TV POWER	Turns the TV on and off
TV INPUT	Selects the TV video input
BASS/CH	Selects TV channel up or down

(*)Both RC007SR and RC008SR do not have the PRESET code library for these keys.

CONTROLLING A MARANTZ RX101 (M-XP MODE)



HDMI (SR6004 only)	AMP function enabled
Z.SPKR	AMP function enabled
ZONE A/B	AMP function enabled
A/D	AMP function enabled
ATT	AMP function enabled
7.1	AMP function enabled
SPKR A/B	AMP function enabled
SOURCE	AMP function enabled
AMP	AMP function enabled
INPUT ▲ / ▼	AMP function enabled
DISPLAY	AMP function enabled
MUTE	AMP function enabled
SURR	AMP function enabled
VOLUME +/-	AMP function enabled
INFO	AMP function enabled
MACRO (M) (RC007SR only)	Selects the MACRO mode
HT-EQ (RC008SR only)	AMP function enabled
PAUSE	PAUSE
PLAY	PLAY
STOP	STOP
Previous/Next	Skips forward or previous chapter/track
Rewind/Forward	Searchs forward or backward
TV POWER	Turns the TV on and off
TV INPUT	Selects the TV video input
TREBLE-/+	AMP function enabled
BASS-/+	AMP function enabled

(*)Both RC007SR and RC008SR do not have the PRESET code library for these keys.

SR6004 REMOTE CONTROLLER BASIC OPERATION

NORMAL MODE

(When operating Marantz AV equipment products)

This remote controller is preset with a total of 12 types of remote codes, including Marantz BD, DVD, VCR (VCR deck), DSS (Satellite broadcasting tuner), TV (Television), CD, CDR, AUX, TUNER, USB, M-XP and AMP mode.

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.
Pressing the **SOURCE** button once changes the remote control to the settings for the source that was pressed.
To change the amplifier on other source, press the **SOURCE** button twice (double-click). The code is sent, and then the amplifier source changes to DVD.

SETTING THE BACK LIGHT

Pressing the Light button located on the side of the remote controller lights the remote controller's backlight. Pressing the button again while the backlight is lit lights the backlight for another 2 seconds.

To turn off back light, press and hold down the **SET** and **OFF** button until indicator blinks twice.

To turn on it again, press and hold down the **SET** and **ON** button until indicator blinks twice.

Initial is back light ON.

PRESET MODE

(When operating non-Marantz AV equipment products)

This remote controller is preset with remote control codes from AV equipment by other manufacturers. The preset codes are TV, CD, DVD and DSS. 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 controller.

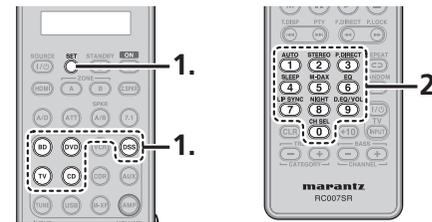
See the attached manufacturer number list for the preset manufacturers, devices, preset numbers, and other settings.

Remote controller source name	Corresponding preset code	Device name
TV	TV	Television
DVD	DVD	DVD player
CD	CD	CD player
DSS	SATELLITE	Satellite broadcasting tuner equipment
BD	BD	Blu-ray disc player

Importants

- Some codes may be not match your equipment. In this case, you can use **LEARN** mode to store these codes.
- The preset codes do not cover full functions. If you need extra function, use **LEARN** mode to store extra function.
- When the batteries are getting weak, the preset procedure is not successful.

PROGRAMMING WITH THE 4-DIGIT CODE



1. Press and hold down the **SOURCE** button for the appliance which should be controlled and press **SET** button until the indicator blinks twice. Then back light flashes.
2. Press the 4-digit code by **numeric** buttons for appliance (code table at the end of this book)
Display 4-digit code on the LCD.



When the procedure is successful, "OK" is displayed on the LCD.

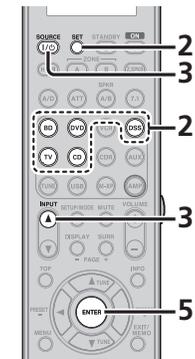


Note

If "NG" is displayed on the LCD, then repeat steps 1 through 2 and try entering the same code again.



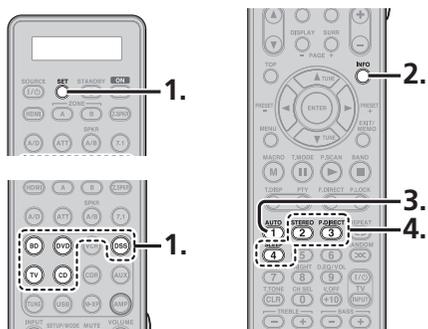
SCANNING THE CODE TABLE



1. Switch on the appliance which should be controlled.
 2. Press and hold down the **SOURCE** button for appliance which should be controlled and press **SET** button until the indicator blinks twice. Then back light flashes.
 3. Aim the remote control at the appliance and slowly alternate between pressing **INPUT** ▲ button and the **SOURCE ON/OFF** button for the appliance.
Display the setup number on the LCD.
- 
4. Stop when the appliance turns off.
 5. Press **ENTER** button once to lock in the code.

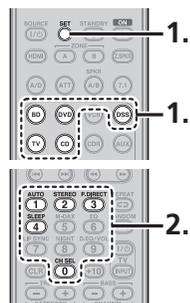
ADVANCED OPERATION

CHECKING THE CODE



1. Press and hold down the **SOURCE** button for appliance which should be controlled and press **SET** button until the indicator blinking twice then back light flashes.
2. Press the **INFO** button. The indicator will blink twice.
3. To setup code for all digits is displayed on the LCD in 3 seconds.

RESETTING THE CODE



1. Press and hold down the **SOURCE** button for appliance which should be controlled and press **SET** button until the indicator blinking twice. Then back light flashes.
2. Press the below codes to reset.
 TV : 1000
 DVD : 2000
 CD : 3000
 DSS : 4000
 BD : 5000



Note

After this procedure, the selected **SOURCE** button is set initial code.

LEARN MODE

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

For codes which are not learned, the remote controller 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.

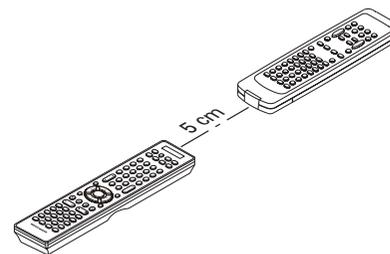
The receiver sensor for the remote controller signals is located at the top of the remote controller.

Notes

- This remote controller is capable to learn around 160 codes.
- When the batteries are getting weak, the learning procedure is not successful.

LEARNING PROCEDURE

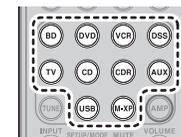
1. Place the remote controller so that its infrared signal transmitter is facing the infrared signal receiver on the Marantz remote controller at a distance of about 5 cm (2 inches).



2. Press and hold down the **SET** and **SETUP** buttons until LEARN indicator blinks.



3. Select the **SOURCE** button to select the **SOURCE**, the **SOURCE** name is displayed on the LCD.



4. Select the button to be learned.
 - LEARN indicator stop to blink.

Notes

- The learning function is unavailable for all **SOURCE** buttons and **HDMI** button in any mode.
- The learning function is unavailable for all buttons in **TUNER** mode, **USB** mode, **M-XP** mode and **AMP** mode.

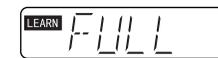
5. Press and hold the button of the original remote controller to learn until "OK" is displayed on the LCD.



- When "NG" is displayed on the LCD, repeat this step.



- When the memory of the remote controller is full, "FULL" is displayed on the LCD. If you want to learn the code, you should erase other learned button.



6. Repeat steps 4 and 5 to learn other buttons in same **SOURCE**.

7. Repeat steps 3 to 6 to learn other **SOURCE**.

8. When you have finished programming the remote controller, press the **SET** button, then **LEARN** indicator stops blinking and exits from the **LEARN** mode.



Notes

- When “NG” is displayed on the LCD once again, the transmitting code is unavailable for remote controller, or the transmitting signal is intercepted by noise.
- If no buttons are pressed for approximately 1 minute while in the **LEARN** mode, the remote controller automatically exits from the **LEARN** mode.

ERASING PROGRAMMED CODES (RETURNING TO INITIAL SETTINGS)

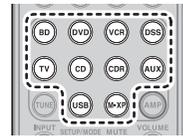
Codes can be erased in three ways: by buttons, sources, and by all memory contents.

ERASING THE CODE BY BUTTONS

1. Press and hold down the **SET** and **SETUP** buttons until **LEARN** indicator blinks.



2. Select the **SOURCE** button to select the button to be erased. The source name is displayed on the LCD.



3. Press and hold down the **HDMI** button and press the learned button twice to be erased.
 - “ERASE” is displayed on the LCD and the mode returns to **LEARN** mode.



4. To return the **NORMAL** mode, press the **SET** button.

ERASING THE CODE BY SOURCE

1. Press and hold down the **SET** and **SETUP** buttons until **LEARN** indicator blinks.



2. Press and hold down the **HDMI** button and press the learned **SOURCE** button twice to be erased.
 - “ERASE” is displayed on the LCD.



3. Press **ENTER** button to continue erasing.
 - The indicator blinks twice and the mode returns to **LEARN** mode.
 - To cancel the erasing operation, do not press **ENTER** button and simply touch any other button.



4. To return the **NORMAL** mode, press the **SET** button.

ERASING THE ALL SOURCES

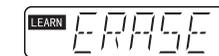
1. Press and hold down the **SET** and **SETUP** buttons until **LEARN** indicator blinks.



2. Press and hold down the **HDMI** button and press **POWER ON** and **POWER OFF** button.
 - **LEARN** indicator lights.



3. Press **ENTER** button to continue erasing.
 - “ERASE” is displayed on the LCD and the mode returns to **LEARN** mode.



- To cancel the erasing operation, do not press **ENTER** button and simply touch any other button.



4. To return the **NORMAL** mode, press the **SET** button.

Note

Erasing codes will return to the factory preset code, or there will leave empty if the button has no factory preset code.

ADVANCED OPERATION

SR6004 REMOTE CONTROLLER
MACRO MODE

PROGRAMMING MACROS

Macros make it possible to use a single function button to perform more complex series of operations that would normally require pressing several buttons.

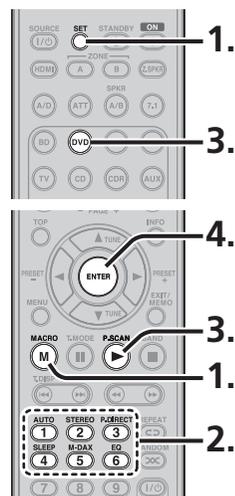
A single MACRO can be programmed to perform up to 10 steps in sequence.

A typical example of such a series might be as follows:

- Turn this unit's power on
 - ↓
 - Switch this unit's input source to DVD
 - ↓
 - Turn the TV's power on
 - ↓
 - Set the DVD player to play.
- No signals may be transmitted during macro programming.
 - The various steps that make up a macro are set initially to be sent one after another in 1 second intervals, however these intervals may be shortened to as little as 0.5 seconds or lengthened to as much as 5 seconds using the setup mode.
 - In the macro mode, the number of steps the macro is displayed with Macro list number.
 - Macros may be programmed 6 list.

MACRO button + numeric button (Example : Macro list No.1 → **MACRO** button + "1")

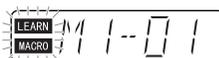
PROGRAM METHOD OF MACRO



1. Press and hold the **SET** and **MACRO** button until the **LEARN**, **MACRO** indicators and **MACRO** are displayed blinking on the LCD.



2. Press the **numeric** button for which you wish to program a series of operations. Press the **1** button.

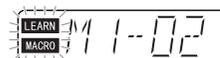


- "M1-01" is displayed on the LCD.
3. Press the function buttons and command button for the operations you wish to program as a macro in the sequence. For example, press **DVD** button and **▶** button.

Press **DVD** Button (DVD Function)



Press **▶** Button (Fixed 1st step)



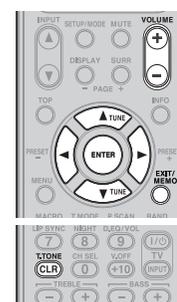
- The number of steps in the macro is displayed on LCD and this number increases by 1 with each button pressed.
- Each macro number can be programmed to perform up to 10 steps in sequence.

Note

When programming the amplifier's input source in the macro program, first press the **AMP** button, and press the source button.

(In the case of DVD input: **AMP** → **DVD**)

4. When you are finished programming macros, press and hold the **ENTER** button until the display returns to normal mode (Turn off the **LEARN** and **MACRO** indicators).
- In the macro mode, it is possible to program the memory to perform macros containing up to 10 steps.
 - Macros cannot be programmed for the **MEMO**, **cursor**, **ENTER**, **VOLUME+/-** and **CLR** buttons.

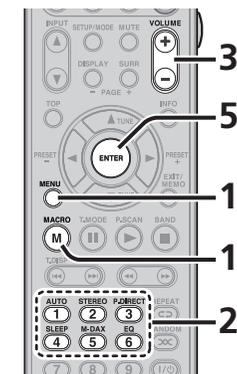


Note

If, while programming, no buttons are pressed for approximately 1 minute, the remote controller will automatically return to normal mode, and no macro will be programmed in the memory.

CONFIRMING MACROS

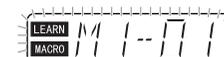
Macros may be confirmed using following procedure.



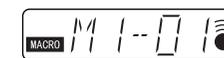
1. Press and hold the **MACRO** and **MENU** buttons until the **LEARN**, **MACRO** indicators and **MACRO** are displayed blinking on the LCD.



2. Press the **numeric** button to be confirmed. Let's use the example of macro number 1, by pressing "1" button.
- **LEARN**, **MACRO** indicators and **M1-01** are displayed blinking.



3. Press the **VOLUME** button.
- **M1-01** is displayed and **LEARN** is disappeared.

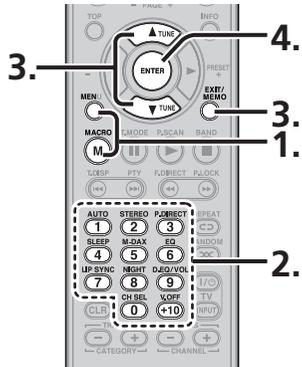


- The programmed operation is transmitting.

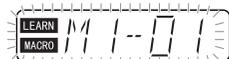
- Repeat step 3. until the last number of the macro is displayed.
 - The display will return to step 1..
 - The each programmed operation is transmitting when the number of the macro is displayed.
- To return the normal mode, press and hold down the **ENTER** button until **MACRO** is disappeared on the LCD.

EDITING MACROS

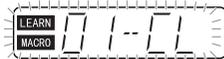
Macros may be edited using following procedure.



- Press and hold the **MACRO** and **MENU** button until the **LEARN**, **MACRO** indicators and **MACRO** are displayed blinking on the LCD.
- Press the **numeric** button to be changed. Let's use the example of programmed **MACRO 1**, by pressing "1" button.
 - LEARN**, **MACRO** indicators and **M1-01** is displayed blinking.



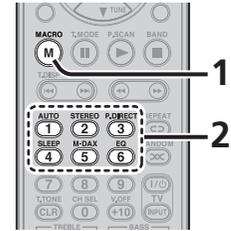
- Press the cursor button (**▲** or **▼**) to select the number of macro to be edited.
 - The programmed operation is displayed after the number of macro is displayed.
 - The number of macro can be changed with the cursor button.
 - To rewrite an existing macro step, simply press function button and programmed for the new step. The old step will be erased and rewritten with the new step.
 - To insert a new step in between existing steps in a macro, after step 3. press the **MEMO** button, then press the button for the new step. The numbers of the other steps will be adjusted accordingly to accommodate the new step. Since only 10 steps may be stored in any macro, the tenth step will be erased if an step is inserted when the total number of steps is already 10.
 - To erase a step in a macro, after step 3. call up the number of the step to be erased and press the **CL** button.



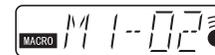
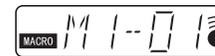
- Press the **ENTER** button to return step 1.
- To return the normal mode, press and hold down the **ENTER** button until **MACRO** is disappeared on the LCD.

USING MACROS

The following procedure will show how to use macro buttons for which you have programmed macros.



- Press the **MACRO** button
 - MACRO** indicator and **MACRO** is displayed on the LCD.
- Press the **numeric** button for programmed number and send the programmed code step by step.

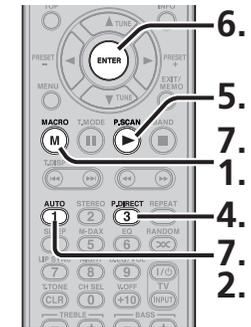
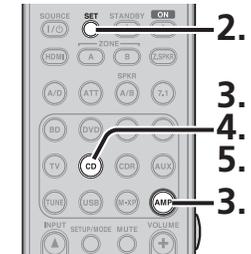


- The remote controller will do nothing if no macros are programmed. The macro steps are executed in order. Also, the step numbers displayed on LCD disappear as each step is executed.
- After all macro commands have been transmitted, the remote controller returns to **AMP** in normal mode.

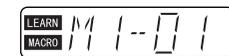
EXAMPLES OF MACRO PROGRAMS

EXAMPLE 1

Change the input source for the unit to **CD** and play the 3rd track on a **CD** in the **CD** player.

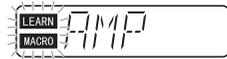


- Press and hold the **MACRO** and **SET** button until the **LEARN**, **MACRO** indicators and **MACRO** are displayed blinking on the LCD.
- Press the "1" button. **M1-01** is displayed on the LCD.

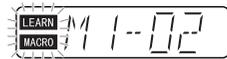


ADVANCED OPERATION

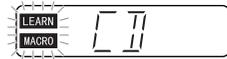
3. Press the **AMP** button and **CD** button. M1-02 is displayed on the LCD. Press the **AMP**.



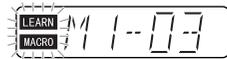
Press the **CD**.



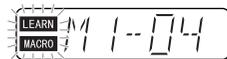
4. Press the **CD** button and "3" button. M1-03 is displayed on the LCD. Press the **CD**.



Press the "3".



5. Press the **CD** button and ► button.



6. When you are finished programming the macro, press the **ENTER** button until the **MACRO** indicator is disappeared and returns to normal mode. **Now, execute the macro you just programmed.**

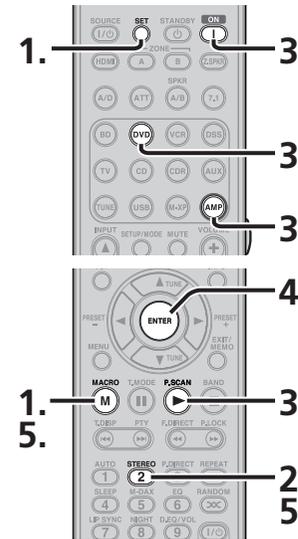
7. Press the **MACRO** button and "1" button.
- The macro commands are transmitted to the components in order, and the steps of the operations are displayed on the LCD in order.

Note

When programming the amplifier's input source in the macro program, first press the **AMP** button, and press the source button.
(In the case of DVD input: **AMP** → **CD**)

EXAMPLE 2

Turn this unit's power on
↓
Turn the DVD player's power on
↓
Change this unit's input source to DVD
↓
Set the DVD player to play



1. Press and hold the **MACRO** and **SET** buttons until the **LEARN**, **MACRO** indicators and **MACRO** are displayed blinking on the LCD.
2. Press the "2" button. M2-01 is displayed on the LCD.

3. To set the various steps of the macro, press the following buttons in order:

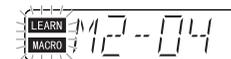
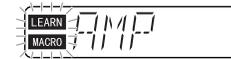
(1) **AMP** → **POWER ON**.



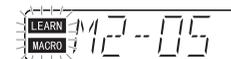
(2) **DVD** → **POWER ON**.



(3) **AMP** → **DVD**.



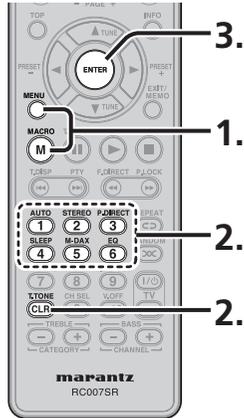
(4) **DVD** → **PLAY**.



4. When you are finished programming the macro, press the **ENTER** button until **MACRO** indicator is disappeared on the LCD and returns to normal mode. **Now, execute the macro you just programmed.**
5. Press the **MACRO** button and "2" button.
 - The macro commands are transmitted to the components in order, and the steps of the operations are displayed on the LCD in order.

CLEARING MACRO PROGRAMS

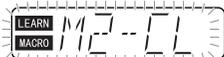
The following procedure is used to erase macros you have programmed into the remote controller's memory.



1. Press and hold the **MACRO** and **MENU** button until the LEARN, MACRO indicators and MACRO are displayed blinking on the LCD.

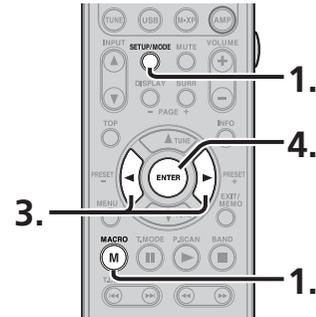


2. Press and hold the **CL** button, then press the button for the **numeric** button to be cleared for 3 seconds. (in this case "2")
 - M2-CL will be displayed blinking on the LCD.



3. Press the **ENTER** button to clear and return step 1.
 - To cancel the memory clearing operation, do not press **ENTER** button and simply touch any other button.
4. To return the normal mode, press and hold down the **ENTER** button until MACRO indicator is disappeared on the LCD and returns to normal mode.

ADJUSTING THE INTERVAL TIME OF MACRO OPERATIONS TRANSMITTING



1. Press and hold the **MACRO** and **SETUP** button until the SETUP is displayed on the LCD.
 - SETUP is displayed for 3 seconds.



2. Confirm the display changes from SETUP to MCRxx. ("xx" means the interval time of macro operations transmitting)



3. Press the cursor button (◀ or ▶) to change the interval time.
 - The interval time can be changed from 0.5 to 5 seconds by 0.5 seconds step.
4. Press and hold down the **ENTER** button until MACRO indicator is disappeared on the LCD and returns to normal mode.

ADVANCED OPERATION

SR5004 REMOTE CONTROLLER BASIC OPERATION

NORMAL MODE

(When operating Marantz AV equipment products)

This remote controller is preset with a total of 12 types of remote codes, including Marantz BD, DVD, VCR (VCR deck), DSS (Satellite broadcasting tuner), TV (Television), CD, CDR, AUX, TUNER, USB, M-XP and AMP mode.

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.
Pressing the **SOURCE** button once changes the remote control to the settings for the source that was pressed.
To change the amplifier on other source, press the **SOURCE** button twice (double-click). The code is sent, and then the amplifier source changes to DVD.

SETTING THE BACK LIGHT

Pressing the Light button located on the side of the remote controller lights the remote controller's backlight. Pressing the button again while the backlight is lit lights the backlight for another 2 seconds.

To turn off back light, press and hold down the **SET** and **OFF** button until SEND indicator blinks twice. To turn on it again, press and hold down the **SET** and **ON** button until SEND indicator blinks twice. Initial is back light ON.

PRESET MODE

(When operating non-Marantz AV equipment products)

This remote controller is preset with remote control codes from AV equipment by other manufacturers. The preset codes are TV, CD, DVD and DSS. 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 controller.

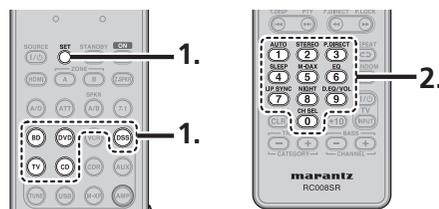
See the attached manufacturer number list for the preset manufacturers, devices, preset numbers, and other settings.

Remote controller source name	Corresponding preset code	Device name
TV	TV	Television
DVD	DVD	DVD player
CD	CD	CD player
DSS	SATELLITE	Satellite broadcasting tuner equipment
BD	BD	Blu-ray disc player

Importants

- Some codes may be not match your equipment.
In this case, you can use **LEARN** mode to store these codes.
- The preset codes do not cover full functions.
If you need extra function, use **LEARN** mode to store extra function.
- When the batteries are getting weak, the preset procedure is not successful.

PROGRAMMING WITH THE 4-DIGIT CODE

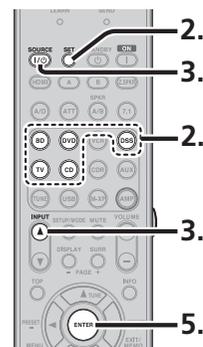


1. Press and hold down the **SOURCE** button for the appliance which should be controlled and press **SET** button until the SEND indicator blinks twice. Then back light flashes.
2. Press the 4-digit code by **numeric** buttons for appliance (code table at the end of this book)
When the procedure is successful, the SEND indicator will blink twice.

Note

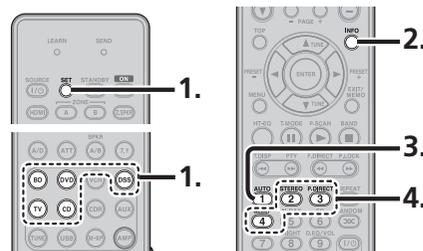
If the indicator did not blink twice, then repeat steps 1 through 2 and try entering the same code again.

SCANNING THE CODE TABLE



1. Switch on the appliance which should be controlled.
2. Press and hold down the **SOURCE** button for appliance which should be controlled and press **SET** button until the SEND indicator blinking twice. Then back light flashes.
3. Aim the remote control at the appliance and slowly alternate between pressing **INPUT** ▲ button and the **SOURCE ON/OFF** button for the appliance.
4. Stop when the appliance turns off.
5. Press **ENTER** button once to lock in the code.

CHECKING THE CODE



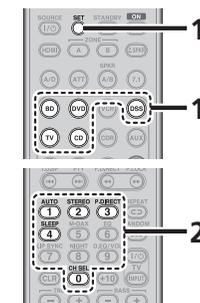
1. Press and hold down the **SOURCE** button for appliance which should be controlled and press **SET** button until the SEND indicator blinking twice then back light flashes.

2. Press the **INFO** button.
The SEND indicator will blink twice.
3. To view the code for first digit, press 1 once.
Count the SEND indicator blinks (e.g. 3 blinks = 3) and write down the number.
4. Then press 2 to check the second digit of the code. Now press 3 and 4 to check the third and fourth digits of the code.

Note

If a code digit is "0", the SEND indicator will not blink.

RESETTING THE CODE



1. Press and hold down the **SOURCE** button for appliance which should be controlled and press **SET** button until the SEND indicator blinking twice.
Then back light flashes.
2. Press the below codes to reset.
TV : 1000
DVD : 2000
CD : 3000
DSS : 4000
BD : 5000
The indicator will blink twice.

Note

After this procedure, the selected **SOURCE** button is set initial code.

LEARN MODE

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

For codes which are not learned, the remote controller 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.

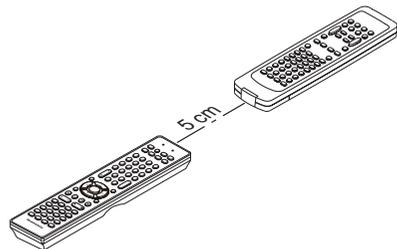
The receiver sensor for the remote controller signals is located at the top of the remote controller.

Notes

- This remote controller is capable to learn around 160 codes.
- When the batteries are getting weak, the learning procedure is not successful.

LEARNING PROCEDURE

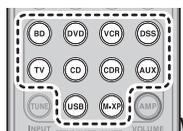
1. Place the remote controller so that its infrared signal transmitter is facing the infrared signal receiver on the Marantz remote controller at a distance of about 5 cm (2 inches).



2. Press and hold down the **SET** and **SETUP** buttons until LEARN indicator blinks.



3. Select the **SOURCE** button to select the SOURCE.



4. Select the button to be learned.
 - LEARN indicator lights up.

Notes

- The learning function is unavailable for all SOURCE buttons and HDMI button in any mode.
- The learning function is unavailable for all buttons in TUNER mode and AMP mode.

5. Press and hold the button of the original remote controller to learn until the SEND indicator blinks twice.

Notes

- When the SEND indicator blinks once, repeat this step.
- If the LEARN indicator flashes when the SEND indicator is lit, then the button cannot be learned.
- When the memory of the remote controller is full, the LEARN and SEND indicators blink once. If you want to learn the code, you should erase other learned button.

6. Repeat steps 4 and 5 to learn other buttons in same SOURCE.
7. Repeat steps 3 to 6 to learn other SOURCE.
8. When you have finished programming the remote controller, press the **SET** button, then LEARN indicator stops blinking and exits from the LEARN mode.



Notes

- When the SEND indicator blinks once again, the transmitting code is unavailable for remote controller, or the transmitting signal is intercepted by noise.
- If no buttons are pressed for approximately 1 minutes while in the LEARN mode, the remote controller automatically exits from the LEARN mode.

ERASING PROGRAMMED CODES (RETURNING TO INITIAL SETTINGS)

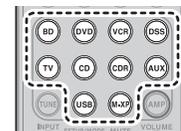
Codes can be erased in three ways: by buttons, sources, and by all memory contents.

Erasing the code by buttons

1. Press and hold down the **SET** and **SETUP** buttons until LEARN indicator blinks.



2. Select the **SOURCE** button to select the button to be erased.



3. Press and hold down the **HDMI** button and press the learned button twice to be erased.
 - SEND indicator blinks twice and the mode returns to LEARN mode.



4. To return the NORMAL mode, press the **SET** button.

Erasing the code by SOURCE

1. Press and hold down the **SET** and **SETUP** buttons until LEARN indicator blinks.



2. Press and hold down the **HDMI** button and press the learned **SOURCE** button twice to be erased.
 - LEARN indicator lights.



3. Press **ENTER** button to continue erasing.
 - The SEND indicator blinks twice and the mode returns to LEARN mode.
 - To cancel the erasing operation, do not press **ENTER** button and simply touch any other button.



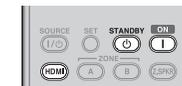
4. To return the NORMAL mode, press the **SET** button.

ERASING THE ALL SOURCES

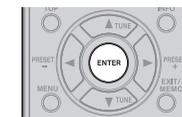
1. Press and hold down the **SET** and **SETUP** buttons until LEARN indicator blinks.



2. Press and hold down the **HDMI** button and press **POWER ON** and **POWER OFF** button.
 - LEARN indicator lights.



3. Press **ENTER** button to continue erasing.
 - The SEND indicator blinks twice and the mode returns to LEARN mode.
 - To cancel the erasing operation, do not press **ENTER** button and simply touch any other button.



4. To return the NORMAL mode, press the **SET** button.

Note

Erasing codes will return to the factory preset code, or there will leave empty if the button has no factory preset code.

TROUBLESHOOTING

If you have any problem using this product, please be sure to check the items in the following table.
If your trouble cannot be solved, please unplug the power cable immediately and contact your Marantz authorized dealer or service center.

GENERAL

Symptom	Cause	Solution	Page
The unit does not turn on.	The AC power cable is improperly connected.	Check the AC power cable connection.	15
		Make sure the AC power cable is firmly inserted into the unit.	
		Make sure the power plug is firmly inserted into the power outlet.	
There is no sound.	The input cables are not fully connected.	Check the connection of the input cables between this unit and the source component (CD player, etc.), referring to the connection diagram.	12
	The input selector is in the wrong position.	Set the input selector to the input terminal to which the source component (CD player, etc.) is connected.	16
	The volume is too low.	Adjust the volume.	
	The mute function has been activated.	Cancel the mute function.	41
	Headphones are connected to the unit.	Remove the headphones.	
There is no sound from a certain speaker.	The speaker is improperly connected.	Refer to the connection diagram to properly connect the speaker.	11
The sound image does not localize correctly and is unnatural.	<ul style="list-style-type: none"> The polarity (+/-) of some speaker cables is incorrect. Speaker position and speaker cable connections are incorrect. 	Unplug the AC power cable and check the speaker cable connections.	11
The STANDBY indicator is blinking slowly (twice a second).	<ul style="list-style-type: none"> The speaker cable has short-circuited. The unit was played at a higher volume than it was designed to be played. You are using speakers with lower impedance than required. 	<ul style="list-style-type: none"> Unplug the AC power cable and check the speaker cable connections. Turn the volume down a bit. 	11
		<ul style="list-style-type: none"> Always use speakers with the required impedance. 	16
		<ul style="list-style-type: none"> For safety's sake, always leave enough space around the unit. Use the remote controller to turn on the power. 	11
		<ul style="list-style-type: none"> If the same problem occurs again, unplug the AC power cable and have the unit serviced at the nearest service center. 	3
	<ul style="list-style-type: none"> The unit was placed and used on a narrow rack or similar confined space and became overheated inside. 	<ul style="list-style-type: none"> Use the remote controller to turn on the power. If the same problem occurs again, unplug the AC power cable and have the unit serviced at the nearest service center. 	6
			-
			-
The STANDBY indicator is blinking fast (8 times a second).	There may be something wrong with the unit.	Immediately unplug the AC power cable and have the unit serviced at the nearest service center.	-

Symptom	Cause	Solution	Page
The display is not displaying properly.	The unit uses a computer that on rare occasions can malfunction if affected by static electricity, lightning or so on.	Unplug the AC power cable and then plug it in again.	15
Cannot use the remote controller to operate the unit.	The batteries are dead.	Replace the batteries with new ones.	3
	The remote controller is out of range.	Use the remote controller within range of the unit.	4
	There is an obstacle between the unit and remote controller.	Remove the obstacle.	
	Strong light is falling on the unit's infrared receptor window.	Prevent strong light from falling on the infrared receptor window.	16
	The mode of the remote controller is improperly set.	Press the remote controller's AMP button before operating.	22
The main unit's volume control and buttons do not work.	The unit is set to IR = DISABLE.	Change the setting to IR = ENABLE.	43
	The front key (button) lock has been set.	Release the front key (button) lock.	40
A hissing noise (residual noise) is generated when there is no input signal.	The unit has a surround DSP, which can sometimes make a noticeable hissing noise.	If the noise bothers you when listening to a 2CH source, listen in SOURCE DIRECT mode.	

TROUBLESHOOTING

SURROUND

Symptom	Cause	Solution	Page
There is no sound from a certain speaker.	No sound has been recorded on that channel.	Check the program channel indicator.	6
There is no sound from the front speaker.	<ul style="list-style-type: none"> An AM program, TV sound or other monaural source is being played in a surround mode other than STEREO. The speaker selector has not been set to the correct position. (It is at OFF or B.) 	<ul style="list-style-type: none"> Sound is heard from the center speaker. There is nothing wrong with the unit. Set the speaker selector to the correct position. 	5
There is no sound from the center speaker.	The surround mode is set to STEREO.	When the surround mode is set to STEREO, no sound is emitted from the center speaker. Set unit to another surround mode.	40
	Center = None is selected on the Speakers Size menu.	Set Center to Small or Large.	31
There is no sound from the surround speakers.	The surround mode is set to STEREO.	When the surround mode is set to STEREO, no sound is emitted from the surround speakers. Set the unit to another surround mode.	40
	Surround = None has been selected on the Speakers Size menu.	Set Surround to Small or Large.	31
There is no sound from the surround back speakers. (Models with 7.1 or more channels)	The surround mode has not been set to a 6.1 or 7.1 channel surround mode such as EX/ES or PLIX.	See the surround mode table.	83
	Surround Back = None or the ZONE speakers have been selected on the Speakers Size menu.	Set Surround Back to 1ch or 2ch.	31
	Connection has been made to the SURROUND BACK R terminal even though the surround back speakers are used at the 1ch setting.	Connect a speaker to the SURROUND BACK L terminal when Surround Back has been set to 1ch.	11
There is no sound from the subwoofer.	<ul style="list-style-type: none"> The subwoofer is not turned on. The subwoofer level is too low. Subwoofer = No is selected on the Speakers Size menu. 	<ul style="list-style-type: none"> Turn on the power to the subwoofer. Raise the subwoofer level. Select Subwoofer = Yes. 	31
	<ul style="list-style-type: none"> Front = Large and Bass Mix = Mix have been set on the Speakers Size menu, and an analog or PCM source is being played. 	<ul style="list-style-type: none"> When the Bass Mix = Both setting is selected, the bass components are played from the front speakers and subwoofer, and the sound heard may be unnatural because of interference. 	31
	The playback source does not contain any LFE or sound in the low range.		-
ES/EX mode cannot be selected.	Surround Back = 1ch or 2ch has not been selected on the Speakers Size menu.	Set Surround Back to 1ch or 2ch.	31
	There is no interchangeability in the input signals.	Use a 5.1 channel source.	-

Symptom	Cause	Solution	Page
Cannot select NEO:6 mode.	There is no interchangeability in the input signals.	Use 2-channel DTS input signals, PCM input signals or analog input signals.	-
CSII mode cannot be selected.	There is no interchangeability in the input signals.	Use 2-channel Dolby Digital input signals, PCM input signals or analog input signals.	-
NIGHT mode does not function.	A source that is not recorded in Dolby Digital is being played.	Use a source recorded in Dolby Digital.	-
Cannot select the desired surround mode.	The surround modes available are limited by input signal and speaker settings.	See the surround mode table.	83
A noise is generated during playback of DTS-encoded CDs, etc.	<ul style="list-style-type: none"> The unit is connected using an analog connection. The player is conducting search playback. 	<ul style="list-style-type: none"> Use a digital (optical or coaxial) or HDMI connection. Noise may occur during search playback depending on the component. There is nothing wrong with the unit. See the player's instruction manual. 	12, 14
	Some inappropriate digital processing (level adjustment, change of sampling frequency, etc.) is happening in the player.		-
Cannot play back audio like Dolby Digital or DTS. (Indicator does not light up.)	<ul style="list-style-type: none"> The digital signal output of the player, etc., is set to PCM. The unit is connected using an analog connection. 	<ul style="list-style-type: none"> See the instruction manual of the player, etc. Use a digital (optical or coaxial) or HDMI connection. 	12, 14
	Cannot play back audio like Dolby TrueHD or DTS-HD. (Indicator does not light up.)	<ul style="list-style-type: none"> The player or other source component does not support these audio mode outputs. The audio output of the player is set improperly. The HDMI connections have not been performed. 	<ul style="list-style-type: none"> Connect a component (with HDMI version 1.3a or higher) that supports Dolby TrueHD and DTS-HD. Set the output so that the source component will be able to output these audio modes.
When playing a CD on a DVD player, the next track is played with part of the beginning missing when track skipping, etc., is conducted.	Depending on the player, the digital signal may be interrupted when a track is skipped. The beginning of the song may be slightly interrupted in order to determine the surround system.	If using such a DVD player, you can play back the audio without problem by using an analog connection.	-

NAMES AND FUNCTIONS

BASIC CONNECTIONS

BASIC OPERATION

ADVANCED CONNECTIONS

SETUP

ADVANCED OPERATION

TROUBLESHOOTING

OTHERS

TROUBLESHOOTING

VIDEO

Symptom	Cause	Solution	Page
No image on the monitor TV.	<ul style="list-style-type: none"> The monitor TV connection, input switching, etc., are not set up correctly. The unit has an HDMI connection to the source component, but no HDMI connection to the monitor TV. 	<ul style="list-style-type: none"> See the monitor TV's instruction manual. Make an HDMI connection to the monitor TV. 	– 14
The audio or the image does not match the selected source.	The input cables are incorrectly connected.	Connect the cables properly, referring to the connection diagram.	12 - 14
Cannot record to a VCR, etc.	<ul style="list-style-type: none"> The video recording component jack does not match the source component jack. A copy-protected signal is being received. 	<ul style="list-style-type: none"> Make sure the recording component jack matches the source component jack. (VIDEO or S-VIDEO) Video signals that include copy-protected signals cannot be recorded. 	– –
The converted video signals are disturbed.	When special playback is performed by the video deck, the conversion may not be carried out normally, causing the video signals to be disturbed and preventing the images from being shown.	Connect a monitor TV using the same format (video, s-video or component) as the source component.	13

HDMI

Symptom	Cause	Solution	Page	
There is no picture with the HDMI connection.	The HDMI cable is improperly connected.	Check the HDMI cable connection.	14	
	The unit is connected with a non-spec HDMI cable.	Use of a cable no longer than 5 meters is recommended to ensure stable operation, prevent picture degradation, etc.	–	
	The connection between components over an HDMI connection has not been authenticated.	Turn the power on again to all the components on the HDMI connection.	–	
	The HDMI settings are incorrect.		Make sure the unit's HDMI settings are correct.	35
			Set the unit for HDMI input, as explained in the instruction manual of the video component (TV, projector, etc.).	–
			Make settings to enable HDMI output, as explained in the instruction manual of the source component (Blu-ray disc player, Set Top Box, etc.).	–
			Match the resolution for both components, as explained in the instruction manual of the component on the HDMI connection.	35
		The unit is connected to the video component (TV, projector, etc.) by DVI connector.	Connect an HDCP-compatible video component.	14
		The power to the unit is turned off. (HDMI connections are not enabled when the unit is in STANDBY mode.)	Turn on the main power to the unit.	16
	It takes time for the image to be displayed over an HDMI connection.	The connection is being authenticated between components on the HDMI connection.	Some HDMI components require time for authentication. There is nothing wrong with the unit.	–
There is no audio playback over an HDMI connection.	The HDMI settings are incorrect.	Make settings to enable HDMI audio output, as explained in the instruction manual of the source component (Blu-ray disc player, Set Top Box, etc.).	–	
		Set so that the HDMI audio output setting matches the signals supported by the unit, as explained in the instruction manual of the source component (Blu-ray disc player, Set Top Box, etc.).	–	
	HDMI audio through mode is established.	No sound can be delivered from the unit in this mode. Select the Enable setting.	36	

TROUBLESHOOTING

Symptom	Cause	Solution	Page
No sound is heard from the monitor TV connected to the HDMI terminal.	HDMI audio enable mode is established.	No sound is heard from the monitor TV in Enable mode. Select Through.	36
Image and audio are unstable over an HDMI connection. (There is noise, the stream is interrupted, etc.)	The connection uses a long cable.	Use a short cable. Use of a cable no longer than 5 meters is recommended.	-
		Use a Category 2 (high-speed supported) cable.	-

TUNER

Symptom	Cause	Solution	Page
Cannot receive AM or FM signals.	The antennas have not been connected properly.	Make sure the AM and FM antennas are properly connected to the AM and FM antenna terminals, respectively.	15
A noise is generated when receiving an AM signal.	The unit is receiving interference from other components.	Change the location of the AM antenna.	-
A noise is generated when receiving an FM signal.	The signal from the broadcasting station is weak.	Install an outdoor FM antenna.	15

USB (SR6004 ONLY)

Symptom	Cause	Solution	Page
Even when the USB storage device is connected, "NO DEVICE" remains on the status display, and the device is not recognized.	<ul style="list-style-type: none"> The unit cannot recognize the USB storage device because of connection trouble or some other issue. 	<ul style="list-style-type: none"> Check whether the USB storage device and USB cable are firmly plugged into the unit's USB connector. Try removing the USB storage device from the unit, and re-connecting it. Try turning the unit's power off and back on, and re-connecting the device. 	-
		-	-
"CHECK DEVICE" appears on the status display when the USB storage device is connected.	<ul style="list-style-type: none"> A device that cannot be recognized by the unit has been connected. The device has been connected through a USB hub. 	<ul style="list-style-type: none"> Even when a USB storage device complies with the USB Mass Storage Class standard, it may not be possible to play its files using the unit. (This does not mean that something is wrong with the unit itself.) USB storage devices cannot be connected through a USB hub. 	-
		-	-

Symptom	Cause	Solution	Page
"CHECK FS" appears on the status display when a USB storage device is connected.	<ul style="list-style-type: none"> A format other than FAT16 or FAT32 is used as the USB storage device's format. A USB storage device that has been formatted using a file system not supported by the unit is being used. 	<ul style="list-style-type: none"> Set the format to FAT16 or FAT32, and record the files. Use a USB storage device that has been formatted using a file system supported by the unit. 	-
"!OVER CURRENT!" appears on the status display when a USB storage device is connected.	The overcurrent protection function of the unit's USB connector has been triggered.	No guarantees are made for the operation of a hard disk drive that is powered from the unit's USB connector. Remove the connected USB storage device, and turn the unit's power off and back on.	-
"NO AUDIO FILE" appears on the status display when a USB storage device is connected.	No playable files have been recorded on a USB storage device.	Record the supported file on a USB storage device.	64
"CHECK FILE" appears on the status display when a USB storage device is connected.	<ul style="list-style-type: none"> An attempt has been made to play a copyright-protected file. The file is damaged. Alternatively, its extension and file structure are incompatible. 	<ul style="list-style-type: none"> The unit cannot play copyright-protected files. Check the file. 	-
The files recorded on the USB storage device are not displayed.	<ul style="list-style-type: none"> The USB storage device is partitioned into a number of partitions. The number of folders exceeds 700 or the number of files exceeds 65535. 	<ul style="list-style-type: none"> If the device is partitioned into a number of partitions, displays only for the first partition will appear. No displays appear for folders after folder no.700 or for files after file no.65535. 	-
		-	-
"PRESS TOP KEY" appears on the status display.	The file cannot be read properly.	Press the TOP button, and try rereading the file.	-
"PRESS MODE KEY" appears on the status display.	An iPod not supported by the unit's direct mode has been connected.	Press the SETUP/MODE button, and use the iPod in remote mode.	8
"CHECK iPod" appears on the status display.	The iPod could not be detected properly.	Turn off the unit's power and turn it back on. If the iPod still cannot be detected, reset the iPod. For details on how to reset the iPod, refer to the iPod's operating instructions.	16

NAMES AND FUNCTIONS

BASIC CONNECTIONS

BASIC OPERATION

ADVANCED CONNECTIONS

SETUP

ADVANCED OPERATION

TROUBLESHOOTING

OTHERS

TROUBLESHOOTING

XM SATELLITE RADIO

If a problem should arise, first check the following.

1. Are the connections correct?
2. Have you operated the receiver according to the operating instructions?
3. Are the speakers and other components operating properly?

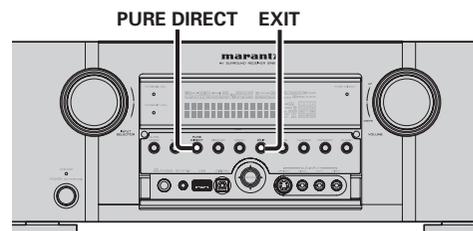
If this unit is not operating properly, Check the items listed in the table below. Should the problem persist, there may be a malfunction. Disconnect the power immediately and contact your store of purchase.

Symptom	Cause	Solution	Page
"TUNER" is displayed.	The XM Mini-Tuner and this unit are not properly connected.	Check that the units are properly connected.	23
"ANTENNA" is displayed.	The XM antenna is not properly connected to the Mini-Tuner Dock.	Check that the antenna is properly connected. Also, check the antenna cable for damage.	23
"NO SIGNAL" is displayed.	The Signal cannot be received.	Reposition your XM antenna.	-
Receiving only channels 0 and 1.	The XM Mini-Tuner is not activated.	Contact XM Satellite Radio.	47
"UPGRADE TUNER" is displayed.	The connected XM CNP-1000 is incompatible.	Upgrade the XM CNP-1000 to the XM Mini-Tuner. Report the model of the AV receiver and the ID number of the CNP-1000 to XM Listener Care.	47

SIRIUS SATELLITE RADIO

Symptom	Cause	Solution	Page
"TUNER ERR" is displayed.	SiriusConnect™ tuner is not properly connected.	Check the 8pin mini DIN cable and AC adapter connection are correct.	23
"ANTENNA" is displayed	Antenna is not properly connected.	Check the antenna cable connection is correct.	23
"ACQUIRING" is displayed.	The signal cannot be received.	Reposition your SiriusConnect™ tuner and antenna.	-
"CALL SIRIUS" is displayed	You have not subscribed for the selected channel.	Call SIRIUS if you want to subscribe.	47
"FIRM UPDT" is displayed	SiriusConnect™ is updating software.	Wait until the updating is complete.	-

FRONT KEY (BUTTON) LOCK OF THE UNIT



The keys (buttons) on the front panel of the unit (except POWER ON/STANDBY) can be locked so that, except for remote control operations, none of the unit's operations will be acknowledged.

HOW TO LOCK THE FRONT KEYS (BUTTONS)

1. Hold down both the **PURE DIRECT** and **EXIT** buttons on the front panel simultaneously for at least 3 seconds.
2. "F-KEY LOCK!" is indicated on the display, and no further operations initiated by the front panel buttons, with the exception of POWER ON/STANDBY, are acknowledged.

HOW TO RELEASE THE FRONT KEY (BUTTON) LOCK

1. Again hold down both the **PURE DIRECT** and **EXIT** buttons on the front panel simultaneously for at least 3 seconds.
2. "F-KEY UNLOCK" is indicated on the display, and the lock is released.

GENERAL MALFUNCTION

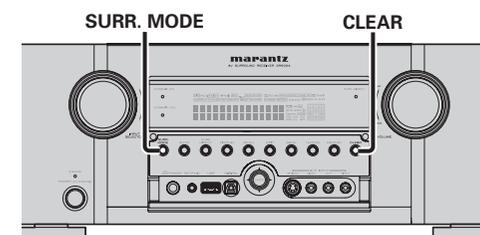
If the equipment malfunctions, this may be because an electrostatic discharge or AC line interference has corrupted the information in the equipment memory circuits. Therefore:

- 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, this unit 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.

This unit is turned on, press and hold the **SURR. MODE + CLEAR** 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.

OTHERS

SURROUND MODE

This unit 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.

THE RELATIONSHIP BETWEEN THE SELECTED SURROUND MODE AND THE INPUT SIGNAL

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

Surround Mode	Input Signal	Decoding	Output Channel					Front information display		
			L/R	C	SL SR	HL HR	SBL SBR	SubW	Signal format indicators	Channel status
AUTO	Dolby Surr.EX	Dolby Digital EX	○	○	○	○	○	○	DD DIGITAL EX	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	L, R, S
	Dolby Digital Plus (2ch)	DolbyDigital +	○	○	○	○	○	○	DD DIGITAL PLUS	L, R
	Dolby Digital Plus (5.1ch)	DolbyDigital +	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, LFE
	Dolby Digital Plus (6.1ch)	DolbyDigital +	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, S, LFE (,ex1)
	Dolby Digital Plus (7.1ch)	DolbyDigital +	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, SBL, SBR, LFE (,ex1,ex2)
	Dolby TrueHD (2ch)	DolbyTrueHD	○	○	○	○	○	○	DD TrueHD	L, R
	Dolby TrueHD (5.1ch)	DolbyTrueHD	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, LFE (,ex1,ex2)
	Dolby TrueHD (6.1ch)	DolbyTrueHD	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, S, LFE (,ex1,ex2)
	Dolby TrueHD (7.1ch)	DolbyTrueHD	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, SBL, SBR, LFE (,ex1,ex2)
	Dolby TrueHD 192kHz (5.1ch)	DolbyTrueHD	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, LFE
	DTS-ES	DTS-ES	○	○	○	○	○	○	dds ES	L, C, R, SL, SR, S, LFE
	DTS 96/24	DTS-96/24	○	○	○	○	○	○	dds 96/24	L, C, R, SL, SR, LFE
	DTS (6.1ch)	DTS 5.1	○	○	○	○	○	○	dds	L, C, R, SL, SR, LFE
	DTS-HD (2ch)	DTS-HD	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, R
	DTS-HD (5.1ch)	DTS-HD	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, LFE (,ex1,ex2)
	DTS-HD (6.1ch)	DTS-HD	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, S, LFE (,ex1,ex2)
	DTS-HD (7.1ch)	DTS-HD	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, SBL, SBR, LFE (,ex1,ex2)
	DTS Express	DTS EXPRESS	○	○	○	○	○	○	dds express	L, C, R, SL, SR, LFE
	Multi Ch-PCM	Multi Ch-PCM	○	○	○	○	○	○	PCM	L, C, R, SL, SR, LFE
	Multi Ch-PCM 96kHz	Multi Ch-PCM 96kHz	○	○	○	○	○	○	PCM	L, C, R, SL, SR, LFE
	Multi Ch-PCM 192kHz	Multi Ch-PCM 192kHz	○	○	○	○	○	○	PCM	L, C, R, SL, SR, LFE
	SA-CD (5.1ch)	SA-CD (5.1ch)	○	○	○	○	○	○	DSD	L, C, R, SL, SR, LFE
	SA-CD (2ch)	SA-CD (Stereo)	○	○	○	○	○	○	DSD	L, R
	PCM (Audio)	PCM (Stereo)	○	○	○	○	○	○	PCM	L, R
	PCM 96kHz	PCM (Stereo 96kHz)	○	○	○	○	○	○	PCM	L, R
	HDCD	HDCD	○	○	○	○	○	○	PCM, HDCD	L, R
	Analog	Stereo	○	○	○	○	○	○	ANALOG	-
7.1ch input	Multi Ch	○	○	○	○	○	○	ANALOG	-	
SOURCE DIRECT PURE DIRECT	Dolby Surr.EX	Dolby Digital EX	○	○	○	○	○	○	DD DIGITAL EX	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	L, R, S
	Dolby Digital Plus (2ch)	DolbyDigital +	○	○	○	○	○	○	DD DIGITAL PLUS	L, R
	Dolby Digital Plus (5.1ch)	DolbyDigital +	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, LFE
	Dolby Digital Plus (6.1ch)	DolbyDigital +	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, S, LFE (,ex1)
	Dolby Digital Plus (7.1ch)	DolbyDigital +	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, SBL, SBR, LFE (,ex1,ex2)
	Dolby TrueHD (2ch)	DolbyTrueHD	○	○	○	○	○	○	DD TrueHD	L, R
	Dolby TrueHD (5.1ch)	DolbyTrueHD	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, LFE (,ex1,ex2)
	Dolby TrueHD (6.1ch)	DolbyTrueHD	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, S, LFE (,ex1,ex2)
	Dolby TrueHD (7.1ch)	DolbyTrueHD	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, SBL, SBR, LFE (,ex1,ex2)
	Dolby TrueHD 192kHz (5.1ch)	DolbyTrueHD	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, LFE
	DTS-ES	DTS-ES	○	○	○	○	○	○	dds ES	L, C, R, SL, SR, S, LFE
	DTS 96/24	DTS-96/24	○	○	○	○	○	○	dds 96/24	L, C, R, SL, SR, LFE
	DTS (6.1ch)	DTS 5.1	○	○	○	○	○	○	dds	L, C, R, SL, SR, LFE
	DTS-HD (2ch)	DTS-HD	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, R
	DTS-HD (5.1ch)	DTS-HD	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, LFE (,ex1,ex2)
	DTS-HD (6.1ch)	DTS-HD	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, S, LFE (,ex1,ex2)
	DTS-HD (7.1ch)	DTS-HD	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, SBL, SBR, LFE (,ex1,ex2)
	DTS Express	DTS EXPRESS	○	○	○	○	○	○	dds express	L, C, R, SL, SR, LFE
	Multi Ch-PCM	Multi Ch-PCM	○	○	○	○	○	○	PCM	L, C, R, SL, SR, LFE
	Multi Ch-PCM 96kHz	Multi Ch-PCM 96kHz	○	○	○	○	○	○	PCM	L, C, R, SL, SR, LFE
	Multi Ch-PCM 192kHz	Multi Ch-PCM 192kHz	○	○	○	○	○	○	PCM	L, C, R, SL, SR, LFE
	SA-CD (5.1ch)	SA-CD (5.1ch)	○	○	○	○	○	○	DSD	L, C, R, SL, SR, LFE

Surround Mode	Input Signal	Decoding	Output Channel					Front information display			
			L/R	C	SL SR	HL HR	SBL SBR	SubW	Signal format indicators	Channel status	
SOURCE DIRECT PURE DIRECT	SA-CD (2ch)	SA-CD (Stereo)	○	○	○	○	○	○	DSD	L, R	
	PCM (Audio)	PCM (Stereo)	○	○	○	○	○	○	PCM	L, R	
	PCM 96kHz	PCM (Stereo 96kHz)	○	○	○	○	○	○	PCM	L, R	
	HDCD	HDCD	○	○	○	○	○	○	PCM, HDCD	L, R	
	Analog	Stereo	○	○	○	○	○	○	ANALOG	-	
	7.1ch input	Multi Ch	○	○	○	○	○	○	ANALOG	-	
	EX/ES	Dolby Surr.EX	Dolby Digital EX	○	○	○	○	○	○	DD DIGITAL EX	L, C, R, SL, SR, S, LFE
Dolby D (5.1ch)		Dolby Digital EX	○	○	○	○	○	○	DD DIGITAL	L, C, R, SL, SR, LFE	
Dolby Digital Plus (5.1ch)		DolbyDigital + +EX	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, LFE	
Dolby TrueHD (5.1ch)		DolbyTrueHD +EX	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, LFE (,ex1,ex2)	
DTS-ES		DTS-ES	○	○	○	○	○	○	dds ES	L, C, R, SL, SR, S, LFE	
DTS (5.1ch)		DTS-ES	○	○	○	○	○	○	dds	L, C, R, SL, SR, LFE	
DTS-HD (5.1)		DTS-HD + NEO6	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, LFE (,ex1,ex2)	
Multi-PCM		Multi Ch-PCM + Dolby Digital EX	○	○	○	○	○	○	PCM	L, C, R, SL, SR, SW	
SA-CD (5.1ch)		SA-CD (5.1ch) + Dolby Digital EX	○	○	○	○	○	○	DSD	L, C, R, SL, SR, SW	
DOLBY PLIIz		Dolby Surr.EX	Dolby Digital 5.1 + PLIIz	○	○	○	○	○	○	DD DIGITAL EX	L, C, R, SL, SR, S, LFE
		Dolby D (5.1ch)	Dolby Digital 5.1 + PLIIz	○	○	○	○	○	○	DD DIGITAL	L, C, R, SL, SR, LFE
		Dolby D (2ch)	PLIIz	○	○	○	○	○	○	DD DIGITAL	L, R
		Dolby D (2ch Surr)	PLIIz	○	○	○	○	○	○	DD DIGITAL	L, R, S
		Dolby Digital Plus (2ch)	PLIIz	○	○	○	○	○	○	DD DIGITAL PLUS	L, R
		Dolby Digital Plus (5.1ch)	DolbyDigital Plus + PLIIz	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, LFE
	Dolby Digital Plus (6.1ch)	DolbyDigital Plus + PLIIz	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, S, LFE (,ex1,ex2)	
	Dolby Digital Plus (7.1ch)	DolbyDigital Plus + PLIIz	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, SBL, SBR, LFE (,ex1,ex2)	
	Dolby TrueHD (2ch)	PLIIz	○	○	○	○	○	○	DD TrueHD	L, R	
	Dolby TrueHD (5.1ch)	DolbyTrueHD + PLIIz	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, LFE (,ex1,ex2)	
	Dolby TrueHD (6.1ch)	DolbyTrueHD + PLIIz	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, S, LFE (,ex1,ex2)	
	Dolby TrueHD (7.1ch)	DolbyTrueHD + PLIIz	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, SBL, SBR, LFE (,ex1,ex2)	
	DTS-HD (2ch)	PLIIz	○	○	○	○	○	○	DD TrueHD	L, R	
	Multi Ch-PCM	Multi Ch-PCM + PLIIz	○	○	○	○	○	○	PCM	L, C, R, SL, SR, LFE	
	SA-CD (5.1ch)	SA-CD (5.1ch) + PLIIz	○	○	○	○	○	○	DSD	L, C, R, SL, SR, LFE	
DOLBY (PLIIx movie) (PLIIx music) (PLIIx game)	SA-CD (2ch)	PLIIz	○	○	○	○	○	○	DSD	L, R	
	PCM (Audio)	PLIIz	○	○	○	○	○	○	PCM	L, R	
	HDCD	PLIIz	○	○	○	○	○	○	PCM, HDCD	L, R	
	Analog	PLIIz	○	○	○	○	○	○	ANALOG	-	
	Dolby Surr.EX	Dolby Digital EX	○	○	○	○	○	○	DD DIGITAL EX	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 (5.1ch)	Dolby Digital 5.1 + PLIIx	○	○	○	○	○	○	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	L, R, S	
	Dolby Digital Plus (2ch)	Pro Logic IIx	○	○	○	○	○	○	DD DIGITAL PLUS	L, R	
	Dolby Digital Plus (5.1ch)	DolbyDigital +	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, LFE	
	Dolby Digital Plus (5.1ch)	Dolby Digital Plus + PLIIx	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, LFE	
	Dolby TrueHD (2ch)	Pro Logic IIx	○	○	○	○	○	○	DD TrueHD	L, R	
	Dolby TrueHD (5.1ch)	DolbyTrueHD + PLIIx	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, LFE (,ex1,ex2)	
	Dolby TrueHD (5.1ch)	DolbyTrueHD	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, LFE (,ex1,ex2)	
DTS (Neo:6 Cinema) (Neo:6 Music)	DTS-HD (2ch)	DTS-HD	○	○	○	○	○	○	DD TrueHD	L, R	
	Multi Ch-PCM	Multi Ch-PCM + PLIIx	○	○	○	○	○	○	PCM	L, C, R, SL, SR, LFE	
	SA-CD (5.1ch)	SA-CD (5.1ch) + PLIIx	○	○	○	○	○	○	DSD	L, C, R, SL, SR, LFE	
	SA-CD (2ch)	Pro Logic IIx	○	○	○	○	○	○	DSD	L, R	
	PCM (Audio)	Pro Logic IIx	○	○	○	○	○	○	PCM	L, R	
	HDCD	Pro Logic IIx	○	○	○	○	○	○	PCM, HDCD	L, R	
	Analog	Pro Logic IIx	○	○	○	○	○	○	ANALOG	-	
	DTS-ES	DTS 5.1	○	○	○	○	○	○	dds ES	L, C, R, SL, SR, S, LFE	
	DTS 96/24	DTS-96/24	○	○	○	○	○	○	dds 96/24	L, C, R, SL, SR, LFE	
	DTS (5.1ch)	DTS 5.1	○	○	○	○	○	○	dds	L, C, R, SL, SR, LFE	
	DTS-HD (2ch)	Neo:6	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, R	
	DTS-HD (5.1ch)	DTS-HD	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, LFE (,ex1,ex2)	
	DTS-HD (6.1ch)	DTS-HD	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, S, LFE (,ex1,ex2)	
	DTS-HD (7.1ch)	DTS-HD	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, SBL, SBR, LFE (,ex1,ex2)	
	Dolby D (2ch)	Neo:6	○	○	○	○	○	○	DD DIGITAL	L, R	
Dolby D (2ch Surr)	Neo:6	○	○	○	○	○	○	DD DIGITAL	L, R, S		
Dolby Digital Plus (2ch)	Neo:6	○	○	○	○	○	○	DD DIGITAL PLUS	L, R		
Dolby TrueHD (2ch)	Neo:6	○	○	○	○	○	○	DD TrueHD	L, R		
SA-CD (2ch)	Neo:6	○	○	○	○	○	○	DSD	L, R		
PCM (Audio)	Neo:6	○	○	○	○	○	○	PCM	L, R		
HDCD	Neo:6	○	○	○	○	○	○	PCM, HDCD	L, R		
Analog	Neo:6	○	○	○	○	○	○	ANALOG	-		

NAMES AND FUNCTIONS
 BASIC CONNECTIONS
 BASIC OPERATION
 ADVANCED CONNECTIONS
 SETUP
 ADVANCED OPERATION
 TROUBLESHOOTING
 OTHERS

OTHERS

Surround Mode	Input Signal	Decoding	Output Channel					Front information display		
			L/R	C	SL SR	HL HR	SBL SBR	SubW	Signal format indicators	Channel status
CSII (Cinema / Music / Mono)	Dolby D (2ch)	CSII	○	○	○	○	○	○	DD DIGITAL	L, R
	Dolby D (2ch Surr)	CSII	○	○	○	○	○	○	DD DIGITAL	L, R, S
	SA-CD (2ch)	CSII	○	○	○	○	○	○	DSD	L, R
	PCM (Audio)	CSII	○	○	○	○	○	○	PCM	L, R
	HDCD	CSII	○	○	○	○	○	○	PCM, HDCD	L, R
	Analog	CSII	○	○	○	○	○	○	ANALOG	-
NEURAL-THX	Dolby D (2ch)	NEURAL THX	○	○	○	○	○	○	DD DIGITAL	L, R
	Dolby D (2ch Surr)	NEURAL THX	○	○	○	○	○	○	DD DIGITAL	L, R, S
	SA-CD (2ch)	NEURAL THX	○	○	○	○	○	○	DSD	L, R
	PCM (Audio)	NEURAL THX	○	○	○	○	○	○	PCM	L, R
	HDCD	NEURAL THX	○	○	○	○	○	○	PCM, HDCD	L, R
	Analog	NEURAL THX	○	○	○	○	○	○	ANALOG	-
STEREO	Dolby Surr.EX	Stereo	○	○	○	○	○	○	DD DIGITAL EX	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	L, R, S
	Dolby Digital Plus (2ch)	Stereo	○	○	○	○	○	○	DD DIGITAL PLUS	L, R
	Dolby Digital Plus (5.1ch)	Stereo	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, LFE
	Dolby Digital Plus (6.1ch)	Stereo	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, S, LFE (ex1)
	Dolby Digital Plus (7.1ch)	Stereo	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, SBL, SBR, LFE
	Dolby TrueHD (2ch)	Stereo	○	○	○	○	○	○	DD TrueHD	L, R
	Dolby TrueHD (5.1ch)	Stereo	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, LFE (ex1,ex2)
	Dolby TrueHD (6.1ch)	Stereo	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, LFE
	Dolby TrueHD (7.1ch)	Stereo	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, LFE
	Dolby TrueHD 192kHz(5.1ch)	Stereo	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, LFE
	DTS-ES	Stereo	○	○	○	○	○	○	dds, ES	L, C, R, SL, SR, S, LFE
	DTS 96/24	Stereo	○	○	○	○	○	○	dds 96/24	L, C, R, SL, SR, LFE
	DTS (5.1ch)	Stereo	○	○	○	○	○	○	dds	L, C, R, SL, SR, LFE
	DTS-HD (2ch)	Stereo	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, R
	DTS-HD (5.1ch)	Stereo	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, LFE (ex1,ex2)
	DTS-HD (6.1ch)	Stereo	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, S, LFE (ex1,ex2)
	DTS-HD (7.1ch)	Stereo	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, SBL, SBR, LFE (ex1,ex2)
	DTS Express	Stereo	○	○	○	○	○	○	dds express	L, C, R, SL, SR, LFE
	Multi Ch-PCM	Stereo	○	○	○	○	○	○	PCM	L, C, R, SL, SR, LFE
	Multi Ch-PCM 96kHz	Stereo	○	○	○	○	○	○	PCM	L, C, R, SL, SR, LFE
	Multi Ch-PCM 192kHz	Stereo	○	○	○	○	○	○	PCM	L, C, R, SL, SR, LFE
	SA-CD (5.1ch)	Stereo	○	○	○	○	○	○	DSD	L, C, R, SL, SR, LFE
	SA-CD (2ch)	Stereo	○	○	○	○	○	○	DSD	L, R
	PCM (Audio)	Stereo	○	○	○	○	○	○	PCM	L, R
PCM 96kHz	Stereo	○	○	○	○	○	○	PCM	L, R	
HDCD	Stereo	○	○	○	○	○	○	PCM, HDCD	L, R	
Analog	Stereo	○	○	○	○	○	○	ANALOG	-	
Dolby Virtual Speaker	Dolby Surr.EX	Dolby Virtual Speaker	○	○	○	○	○	○	DD DIGITAL EX	L, C, R, SL, SR, S, LFE
	Dolby D (5.1ch)	Dolby Virtual Speaker	○	○	○	○	○	○	DD DIGITAL	L, C, R, SL, SR, LFE
	Dolby D (2ch)	PLII+ Dolby Virtual Speaker	○	○	○	○	○	○	DD DIGITAL	L, R
	Dolby D (2ch Surr)	PLII+ Dolby Virtual Speaker	○	○	○	○	○	○	DD DIGITAL	L, R, S
	Dolby Digital Plus (2ch)	Dolby Virtual Speaker	○	○	○	○	○	○	DD DIGITAL PLUS	L, R
	Dolby Digital Plus (5.1ch)	Dolby Virtual Speaker	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, LFE
	Dolby Digital Plus (6.1ch)	Dolby Virtual Speaker	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, S, LFE (ex1)
	Dolby Digital Plus (7.1ch)	Dolby Virtual Speaker	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, SBL, SBR, LFE
	Dolby TrueHD (2ch)	Dolby Virtual Speaker	○	○	○	○	○	○	DD TrueHD	L, R
	Dolby TrueHD (5.1ch)	Dolby Virtual Speaker	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, LFE
	Dolby TrueHD (6.1ch)	Dolby Virtual Speaker	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, LFE
	Dolby TrueHD (7.1ch)	Dolby Virtual Speaker	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, LFE
	DTS-ES	Dolby Virtual Speaker	○	○	○	○	○	○	dds, ES	L, C, R, SL, SR, S, LFE
	DTS 96/24	Dolby Virtual Speaker	○	○	○	○	○	○	dds 96/24	L, C, R, SL, SR, LFE
	DTS (5.1ch)	Dolby Virtual Speaker	○	○	○	○	○	○	dds	L, C, R, SL, SR, LFE
	DTS-HD (2ch)	Dolby Virtual Speaker	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, R
	DTS-HD (5.1ch)	Dolby Virtual Speaker	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, LFE (ex1,ex2)
	DTS-HD (6.1ch)	Dolby Virtual Speaker	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, S, LFE (ex1,ex2)
DTS-HD (7.1ch)	Dolby Virtual Speaker	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, SBL, SBR, LFE (ex1,ex2)	
Multi Ch-PCM	Dolby Virtual Speaker	○	○	○	○	○	○	PCM	L, C, R, SL, SR, LFE	
SA-CD (5.1ch)	Dolby Virtual Speaker	○	○	○	○	○	○	DSD	L, C, R, SL, SR, LFE	
SA-CD (2ch)	PLII+ Dolby Virtual Speaker	○	○	○	○	○	○	DSD	L, R	
PCM (Audio)	PLII+ Dolby Virtual Speaker	○	○	○	○	○	○	PCM	L, R	
HDCD	PLII+ Dolby Virtual Speaker	○	○	○	○	○	○	PCM, HDCD	L, R	
Analog	PLII+ Dolby Virtual Speaker	○	○	○	○	○	○	ANALOG	-	

Surround Mode	Input Signal	Decoding	Output Channel					Front information display		
			L/R	C	SL SR	HL HR	SBL SBR	SubW	Signal format indicators	Channel status
Multi Ch. Music	Dolby Surr.EX	Dolby Digital EX	○	○	○	○	○	○	DD DIGITAL EX	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	○	○	○	○	○	○	DD DIGITAL	L, R
	Dolby D (2ch Surr)	Multi Channel	○	○	○	○	○	○	DD DIGITAL	L, R, S
	DTS-ES	DTS-ES	○	○	○	○	○	○	dds, ES	L, C, R, SL, SR, S, LFE
	DTS 96/24	DTS-96/24	○	○	○	○	○	○	dds 96/24	L, C, R, SL, SR, LFE
	DTS (5.1ch)	DTS 5.1	○	○	○	○	○	○	dds	L, C, R, SL, SR, LFE
	Multi Ch-PCM	Multi Ch-PCM	○	○	○	○	○	○	PCM	L, C, R, SL, SR, LFE
	Multi Ch-PCM 96kHz	Multi Ch-PCM 96kHz	○	○	○	○	○	○	PCM	L, C, R, SL, SR, LFE
	SA-CD (5.1ch)	SA-CD (5.1ch)	○	○	○	○	○	○	DSD	L, C, R, SL, SR, LFE
	SA-CD (2ch)	Multi Channel	○	○	○	○	○	○	DSD	L, R
	PCM (Audio)	Multi Channel	○	○	○	○	○	○	PCM	L, R
	HDCD	Multi Channel	○	○	○	○	○	○	PCM, HDCD	L, R
	(C): Movie mode only.	Analog	Multi Channel	○	○	○	○	○	ANALOG	-
Headphone (DolbyHP or Normal Headphone)	Dolby Surr.EX	Dolby H.P	○	○	○	○	○	○	DD DIGITAL EX	L, C, R, SL, SR, S, LFE
	Dolby D (5.1ch)	Dolby H.P	○	○	○	○	○	○	DD DIGITAL	L, C, R, SL, SR, LFE
	Dolby D (2ch)	Dolby H.P	○	○	○	○	○	○	DD DIGITAL	L, R
	Dolby D (2ch Surr)	Dolby H.P	○	○	○	○	○	○	DD DIGITAL	L, R, S
	Dolby Digital Plus (5.1ch)	Stereo	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, LFE
	Dolby Digital Plus (6.1ch)	Stereo	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, S, LFE (ex1)
	Dolby Digital Plus (7.1ch)	Stereo	○	○	○	○	○	○	DD DIGITAL PLUS	L, C, R, SL, SR, SBL, SBR, LFE
	Dolby TrueHD (5.1ch)	Stereo	○	○	○	○	○	○	DD TrueHD	L, R
	Dolby TrueHD (6.1ch)	Stereo	○	○	○	○	○	○	DD TrueHD	L, R
	Dolby TrueHD (7.1ch)	Stereo	○	○	○	○	○	○	DD TrueHD	L, R
	Dolby TrueHD 192kHz(5.1ch)	Stereo	○	○	○	○	○	○	DD TrueHD	L, C, R, SL, SR, LFE
	DTS-ES	Dolby H.P	○	○	○	○	○	○	dds, ES	L, C, R, SL, SR, S, LFE
	DTS 96/24	Dolby H.P	○	○	○	○	○	○	dds 96/24	L, C, R, SL, SR, LFE
	DTS (5.1ch)	Dolby H.P	○	○	○	○	○	○	dds	L, C, R, SL, SR, LFE
	DTS-HD (5.1ch)	Stereo	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, LFE (ex1,ex2)
	DTS-HD (6.1ch)	Stereo	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, S, LFE (ex1,ex2)
	DTS-HD (7.1ch)	Stereo	○	○	○	○	○	○	dds-HD MSTR/HIRES	L, C, R, SL, SR, SBL, SBR, LFE (ex1,ex2)
	DTS Express	Stereo	○	○	○	○	○	○	dds express	L, C, R, SL, SR, LFE
Multi Ch-PCM	Dolby H.P	○	○	○	○	○	○	PCM	L, C, R, SL, SR, LFE	
PCM	Dolby H.P	○	○	○	○	○	○	PCM	L, R	
HDCD	Dolby H.P	○	○	○	○	○	○	PCM, HDCD	L, R	
ANALOG	Dolby H.P	○	○	○	○	○	○	ANALOG	L, R	

Notes

- *Dolby Digital (2 channel L/R): Speakers for signal with Dolby Surround are fully equipped.*
- *No sound is outputs from the surround speaker, center speaker and subwoofer if the DVD disc has no surround data.*
- *Surround modes other than Stereo are not available during Dolby TrueHD, Dolby Digital Plus, or DTS-HD playback.*
If surround modes other than Stereo are selected and Dolby TrueHD, Dolby Digital Plus, or DTS-HD content is played, the surround mode setting is disabled.

Abbreviations

- L/R : Front speakers
- C : Center speaker
- SL/SR : Surround speakers
- HL/HR : Front height speakers
- SBL/SBR : Surround back speakers
- SubW : Subwoofer
- LFE : Low frequency effects
- ex : Extension

AUTO

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

Surround EX & DTS-ES will operate for multichannel sources that have 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.

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. See page 83 to confirm the available decoding modes.

SOURCE DIRECT

In the Source Direct mode, the tone control circuit Acoustic EQ, and bass management configuration are bypassed for full-range frequency response and the purist audio reproduction.

Notes

- Speaker size is set to Front L/R = Large, Center = Large, Surround L/R = Large and Subwoofer = Yes automatically. Tone controls, equalizer and additional processing are deactivated.
- When you use this mode with certain DVD and CD players, performing operations such as skip or stop may momentarily interrupt the output.
- In SOURCE DIRECT mode, ACOUSTIC EQ and M-DAX are not available.

PURE DIRECT

The Pure Direct mode further reduces sources of noise in addition to effect of the Source Direct mode, by blocking output from the video jacks (VIDEO, S-VIDEO, COMPONENT VIDEO and HDMI) and turning the FL display off.

Note

- In PURE DIRECT mode, ACOUSTIC EQ and M-DAX are not available.

EX/ES

This mode provides 6.1 channel surround for Dolby Digital EX, and 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 systems that do not have 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 unit 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 audio reproduction.

DTS-ES is not available in systems that do not have surround back speakers.

MODE

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

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 5.1 channel Dolby Digital sources provides 5 main audio channels (left, center, right, surround left and surround right) and a Low Frequency Effect channel.

Dolby Digital EX decoding is not available in this mode.

Dolby Pro Logic IIx has 5 modes:

Pro Logic IIx MOVIE

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

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

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

5.1ch + Pro Logic IIx Movie

This mode provides 7.1 channel surround sound from 5.1 channel sources movie soundtracks.

5.1ch + Pro Logic IIx Music

This mode provides 6.1 or 7.1 channel surround sound from 5.1 channel sources music soundtracks.

Notes

- Pro Logic IIx mode will decode as Pro Logic II mode when the Surr. B is set to "None" from SPEAKER SETUP menu. (See page 28)
- Pro Logic IIx mode is available for a 2 channel input signal which is encoded in Dolby Digital, HDCD or PCM format.

Pro Logic IIz Height

Dolby Pro Logic IIz Height is designed to more effectively use existing program material when height channel speaker outputs are present. Dolby Pro Logic IIz Height can be used to upmix a variety of sources from movies and music, but are particularly well-suited to upmix game content.

dts

dts, Neo:6 Cinema, Neo:6 Music

This mode is for DTS-encoded source materials such as laserdisc, 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 a Low Frequency Effects 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

- The Neo:6 mode is available for 2 channel input signals which are encoded in Dolby Digital, HDCD or PCM format.

OTHERS

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 an 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

- The CS II mode is available for 2 channel input signals which are encoded in Dolby Digital, HDCD or PCM format.

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 channels are converted to two channel stereo. 96 kHz PCM source material can be played back in stereo mode.

Dolby Virtual Speaker

Dolby Virtual Speaker technology uses proprietary technology of Dolby Laboratories to create a virtual surround sound field using only two speakers for the front channels, allowing the user to experience sound as if surround speakers were actually being used.

MULTI CH. (MOVIE, MUSIC)

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 the left front and left surround speakers and the right channel signal to both the right front and right surround speakers. Additionally, the center channel reproduces a mix of the right and left channels.

Note

- Audio is not output from the CENTER channel when using MULTI CH. MUSIC mode.

Neural Surround

Neural Surround™ represents the latest advancement in surround technology developed for music.

Neural Surround™ employs psychoacoustic frequency domain processing which allows delivery of a more detailed sound stage with superior channel separation and localization of audio elements. System playback is scalable from 5.1 to 7.1 multichannel surround playback.

CAUTION

Note for DTS

- To connected DVD player, laserdisc 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 unit digitally. This is because the digital signal has been processed (such as the output level, sampling frequency or frequency response), and the unit 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 a DTS laserdisc or CD are playing in another surround mode, you cannot switch to digital input or from digital input to analog input from the INPUT SETUP in the MAIN MENU or by pressing the A/D button.
- You can not listen to DTS-encoded software in a multiroom.
- The outputs for VCR OUT, TAPE OUT and CD/CD-R OUT output analog audio signals only. 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 or Dolby Digital Surround EX

- When playing Dolby Digital Surround EX-encoded software in 6.1 channels, it is required to set the EX/ES mode.
- Note that some Dolby Digital Surround EX-encoded software does not contain the identification signal. In this case, set the EX/ES mode manually.

Note for 96 kHz/192 kHz PCM audio

- The AUTO, Pure Direct, and Stereo modes can be used when playing PCM signals with a sampling frequency of 96/192 kHz (such as from DVD-Video/Audio discs).
- Certain DVD player models inhibit digital output. For details, refer to the player's operation manual.
- Some DVD discs feature copy protection. When using such disc, 96 kHz PCM signal are not output from the DVD player. For details, refer to the player's operation manual.

Note for HDCD

- HDCD is effective only through digital input.
- You may not be able to play some HDCD source signals from certain CD players if you connect the player to the unit digitally. This is because the digital signal has been processed (such as the output level, sampling frequency or frequency response) and the unit cannot recognize the signal as HDCD data.

DESCRIPTION



DTS Neural Surround has been chosen as the surround sound format for XM Satellite Radio's "XM HD Surround," TV sports broadcasting, 7.1 games, Music Direct Internet streaming as well as leading FM/HD radio stations. It delivers the rich envelopment and discrete image detail of surround sound by unmasking the audio details, typically lost by other playback modes audiences will experience the deep ambience and subtle details of movies, music and games.

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• dts Digital Surround

DTS was introduced in 1994 to provide 5.1 channels of discrete digital audio into home theater systems. DTS brings you premium quality discrete 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 Neo:6®

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

But even in homes equipped for discrete multichannel, there remains a need for high-quality matrix decoding. This is because of the large library of matrix surround motion pictures available on disc and on VHS tape; and analog television broadcasts. The typical matrix decoder of today derives a center channel and a mono surround channel from two-channel matrix stereo material. It is better than a simple matrix in that it includes steering logic to improve separation, but because of its mono, band-limited surround it can be disappointing to users accustomed to discrete multichannel.

Neo:6 offers several important improvements as follow,

- Neo:6 provides up to six full-band channels of matrix decoding from stereo matrix material. Users with 6.1 and 5.1 systems will derive six and five separate channels, respectively, corresponding to the standard home-theater speaker layouts.
- Neo:6 technology allows various sound elements within a channel or channels to be steered separately, and in a way which follows naturally from the original presentation.
- Neo:6 offers a music mode to expand stereo nonmatrix recordings into the five- or six-channel layout, in a way which does not diminish the subtlety and integrity of the original stereo recording.

• dts Digital Surround ES®

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 Digital Surround 96/24

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.



DTS-HD Master Audio is capable of delivering audio that is a bit-for-bit identical to the studio master. DTS-HD Master Audio delivers audio at super high variable bit rates -24.5 mega-bits per second (Mbps) on Blu-ray discs and 18.0 Mbps on HD-DVD - that are significantly higher than standard DVDs. This bit stream is so "fast" and the transfer rate is so "high" that it can deliver the Holy Grail of audio: 7.1 audio channels at 96k sampling frequency/24 bit depths that are identical to the original. With DTS-HD Master Audio, you will be able to experience movies and music, exactly as the artist intended: clear, pure, and uncompromised.

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DTS-HD High Resolution Audio can deliver up to 7.1 channels of sound that is virtually indistinguishable from the original. DTS-HD High Resolution Audio delivers audio at high constant bit rates superior to standard DVDs—6.0 Mbps on Blu-ray discs and 3.0 Mbps on HD-DVD to produce outstanding sound quality. It is capable of delivering up to 7.1 channels at 96k sampling frequency/24 bit depth resolution. It allows content creators to deliver rich, high definition audio on movies where disc space may not allow for DTS-HD Master Audio.

Manufactured under license under U.S. Patent No's: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535, 7,212,872; 7,333,929 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark and the DTS logos, Symbol, DTS-HD, DTS-HD High Resolution Audio and DTS-HD High Res Audio are trademarks of DTS, Inc. © 1996-2008 DTS, Inc. All Rights Reserved.



DTS-EXPRESS is a low-bitrate encoding technology supporting up to 5.1 channels with fixed data transfer rates. This format is incorporated with sub audio on HD DVD and secondary audio on Blu-ray Disc while boasting the potential applicability to upcoming broadcasts and memory audio contents.

Manufactured under license under U.S. Patent No's: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,487,535; 7,333,929 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark & the DTS logos, Symbol and DTS Express are trademarks of DTS, Inc. © 1996-2008 DTS, Inc. All Rights Reserved.



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.

OTHERS

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.



Dolby Pro Logic IIz Height is designed to more effectively use existing program material when height channel speaker outputs are present. Dolby Pro Logic IIz Height can be used to upmix a variety of sources from movies and music, but are particularly well-suited to upmix game content.



The Dolby 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. Dolby utilizes patented headphone perspective curves to solve this problem and provides a non-fatiguing, immersive, home theater listening experience. Dolby Headphone also delivers exceptional 3D audio from stereo material.



Dolby Virtual Speaker is a technology certified by Dolby Laboratories that creates a virtualized surround sound experience from two speakers using a multichannel Dolby Digital source. Additionally, Dolby Virtual Speaker can simulate the surround sound effect produced by Dolby Pro Logic or Dolby Pro Logic II.

Dolby Virtual Speaker retains all the original Multichannel audio information and provides the listener with the sensation of being surrounded by additional speakers.



Dolby® TrueHD is Dolby's next-generation lossless technology developed for high-definition disc-based media. Dolby TrueHD delivers tantalizing sound that is bit-for-bit identical to the studio master, unlocking the true high-definition entertainment experience on next-generation discs. When coupled with high-definition video, Dolby TrueHD offers an unprecedented home theater experience that lets you enjoy sound as stunning as the high-definition picture.



Dolby Digital Plus is a highly sophisticated and versatile audio codec based on Dolby Digital and designed specifically to adapt to the changing demands of future audio, video delivery, and audio storage systems while simultaneously retaining backwards compatibility with the existing Dolby Digital 5.1-channel home theater systems in use today.

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", "Surround EX", 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, SRS and  symbol are trademarks of SRS Labs, Inc. Circle Surround II technology is 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.

HDCD system manufactured under license from Microsoft. This product is covered by one or more of the following: In the United States 5,479,168 5,638,074 5,640,161 5,808,574 5,838,274 5,854,600 5,864,311 5,872,531 and in Australia 669,114 with other patents pending.



HDMI, the  and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Macrovision

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

AUDYSSEY**MultEQ
DYNAMIC VOLUME****MultEQ®**

Audyssey MultEQ is a room equalization solution that calibrates any audio system so that it can achieve optimum performance for every listener in a large listening area. MultEQ captures acoustical information at multiple locations throughout a listening area in both the time and frequency domains. It uses a sophisticated clustering algorithm to combine this information so that acoustical problems are accurately analyzed. Based on these measurements, MultEQ calculates an equalization solution that corrects for both time and frequency response problems in the listening area and also performs a fully automated surround system setup. The result is clear, well-balanced sound for every listener.

Dynamic EQ™

Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Dynamic EQ selects the correct frequency response and surround levels moment-by-moment at any userselected volume setting. The result is bass response, tonal balance and surround impression that remain constant despite changes in volume. Dynamic EQ combines information from incoming source levels with actual output sound levels in the room, a prerequisite for delivering a loudness correction solution. Audyssey Dynamic EQ works in tandem with Audyssey MultEQ to provide well-balanced sound for every listener at any volume level.

Dynamic Volume™

Audyssey Dynamic Volume solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies.

Dynamic Volume looks at the preferred volume setting by the user and then monitors how the volume of program material is being perceived by listeners in real time to decide whether an adjustment is needed. Whenever necessary, Dynamic Volume makes the necessary rapid or gradual adjustments to maintain the desired playback volume level while

optimizing the dynamic range. Audyssey Dynamic EQ is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression, and dialog clarity remain the same whether watching movies, flipping between television channels, or changing from stereo to surround sound content.

Manufactured under license from Audyssey Laboratories. U.S. and foreign patents pending. Audyssey MultEQ®, Audyssey Dynamic Volume™, and Audyssey Dynamic EQ™ are registered trademark of Audyssey Laboratories.



- “Made for iPod” means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.
“Works with iPhone” means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.
Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

iPod is a trademark of Apple Inc. registered in the US and other countries. iPhone is a trademark of Apple Inc.

SIRIUS, XM Satellite Radio Ready

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XM HD Surround uses Neural Surround™ technology to achieve optimal surround sound from XM radio.

OTHERS

TECHNICAL SPECIFICATIONS

FM TUNER SECTION

Frequency Range 87.5 – 108.0 MHz
 Usable Sensitivity IHF 1.8 μ V/16.4 dB
 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 400 kHz 60 dB
 Image Rejection 98.1 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/m
 Distortion..... 400Hz, 30 % Mod. 0.5 %
 Selectivity \pm 20 kHz 70 dB

AUDIO SECTION

Power Output (20 Hz – 20 kHz/THD=0.08%)
(SR6004)
 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 130 W / Ch
 Center 6 ohms 130 W / Ch
 Surround L&R 6 ohms 130 W / Ch
 Surround Back L&R 6 ohms 130 W / Ch
(SR5004)
 Front L&R 8 ohms 90 W / Ch
 Center 8 ohms 90 W / Ch
 Surround L&R 8 ohms 90 W / Ch
 Surround Back L&R 8 ohms 90 W / Ch
 Front L&R 6 ohms 115 W / Ch
 Center 6 ohms 115 W / Ch
 Surround L&R 6 ohms 115 W / Ch
 Surround Back L&R 6 ohms 115 W / Ch

Input Sensitivity/Impedance
 180 mV/ 47 Kohms
 Signal to Noise Ratio(Analog Input / Pure Direct)
 105 dB
 Frequency Response
 (Analog Input / Pure 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

HDMI

Input / Output jacks..... 19-pin HDMI terminals
 (HDMI V.1.3 with Deep
 Color, Dolby True HD,
 DTS-HD Master Audio,
 SACD, DVD-Audio)

GENERAL

Power Requirement..... AC 120 V 60 Hz
 Power Consumption..... 650 W
 Standby Power Consumption..... (Normal) 0.7 W
 (Economy) 0.4 W
 Weight (SR6004) 12.7 kg
 (SR5004) 12.7 kg

Specifications subject to change without prior notice.

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Recording and playback of any material may require consent. For further information refer to the following:

- Copyright Act 1956
- Dramatic and Musical Performers Act 1958
- Performers Protection Acts 1963 and 1972
- Any subsequent statutory enactments and orders

CLEANING OF EQUIPMENT EXTERNAL SURFACES

The exterior finish of your unit will last indefinitely with proper care and cleaning. Never use scouring pads, steel wool, scouring powders or harsh chemical agents (e.g., lye solution), alcohol, thinner, benzene, insecticide or other volatile substances as these will mar the finish of the equipment. Likewise, never use cloths containing chemical substances. If the equipment get dirty, wipe the external surfaces with a soft, lint-free cloth.

If the equipment becomes heavily soiled:

- dilute some washing up liquid in water, in a ratio of one part detergent to six parts water.
- dip a soft, lint free in the solution and wring the it is damp.
- wipe the equipment with the damp cloth.
- dry the equipment by wiping it with a dry cloth.



REPAIRS

Only the most competent and qualified service technicians should be allowed to service the factory-trained warranty station personnel have the knowledge and special facilities needed for repair and calibration of this precision equipment. After the warranty period has expired, repairs will be performed for a charge if the equipment can be returned to normal operation.

In the event of difficulty, refer to your dealer or write directly to the nearest location to you that is listed on the Marantz Authorized Service Station list. If writing, please include the model and serial number of the equipment together with a full description of what you think is abnormal about the equipment's behaviour.

SETUP CODES

BD

Denon.....	5034, 5035, 5036
Hitachi.....	5031, 5032, 5033
Integra.....	5013
JVC.....	5014, 5015, 5017, 5018, 5019, 5020
LG.....	5010, 5011
Marantz.....	5000, 5026, 5027
Mitsubishi.....	5024, 5025
Onkyo.....	5013
Panasonic.....	5001, 5002, 5003
Philips.....	5004
Pioneer.....	5005
RCA.....	5012
Samsung.....	5005
Sharp.....	5028, 5029, 5030
Sony.....	5007, 5008, 5009, 5016
Toshiba.....	5012
Yamaha.....	5021, 5022, 5023

DVD

Aiwa.....	2036, 2037
Apex.....	2012, 2017, 2018, 2019, 2021, 2034
BOSE.....	2038, 2039, 2063
Denon.....	2047, 2048
Funai.....	2049
GE.....	2009, 2020, 2029, 2033
Harman Kardon.....	2061
Hitachi.....	2008, 2012, 2031
JVC.....	2006, 2010, 2040, 2041, 2042, 2043
Kenwood.....	2053, 2054
Koss.....	2058
Magnavox.....	2007, 2011, 2023, 2025
Marantz.....	2025, 2065
Marantz (Blu-ray).....	2064
Mitsubishi.....	2011, 2015
Onkyo.....	2062
Oritron.....	2009, 2030
Panasonic.....	2003, 2015, 2016, 2055
Philips.....	2007, 2011, 2058
Pioneer.....	2002, 2014, 2056
Proscan.....	2009, 2020, 2032
RCA.....	2005, 2009, 2020, 2035, 2057
Sampo.....	2041
Samsung.....	2008, 2012, 2022, 2024, 2027
Sanyo.....	2050, 2052
Sharp.....	2044, 2045
Sherwood.....	2051
Sony.....	2001, 2013, 2059
Toshiba.....	2004, 2008, 2026, 2028
Yamaha.....	2046, 2060
Zenith.....	2010

DSS

Alphastar.....	4027
Amstrad.....	4046, 4047, 4050
Atsky.....	4048
B Sky B.....	4021, 4045, 4046
Chaparral.....	4039
DIRECTV.....	4001, 4016, 4044
DISH Network.....	4030
Drake.....	4026
Echostar.....	4007, 4017, 4018, 4019, 4020, 4062, 4063, 4064
Eurosky.....	4047, 4056
Express Vu.....	4017
Foxtel.....	4051
Freesat.....	4056
Fujitsu.....	4025
GE.....	4002, 4008, 4009
General Instruments.....	4036, 4037
Gradiente.....	4044, 4057
Hitachi.....	4001, 4015
Hughes.....	4001, 4016
Humax.....	4049, 4050, 4051, 4052, 4053
Janeil.....	4025
JVC.....	4017
Mitsubishi.....	4001
Nokia.....	4058, 4059, 4060, 4061
Optima.....	4048
Panasonic.....	4004, 4010
Philips.....	4031, 4035, 4044, 4057
Proscan.....	4002, 4008, 4009, 4011
Radio Shack.....	4036, 4037
RCA.....	4002, 4008, 4009, 4029
Realistic.....	4040
Rural Cable.....	4036
Samsung.....	4022, 4027, 4042, 4043, 4050, 4054, 4055
Schneider.....	4041, 4043
SKY.....	4044, 4045, 4057
Skyplus.....	4048
Skysat.....	4041, 4047, 4056
Sony.....	4003, 4012, 4014, 4065, 4066, 4067
Star Choice.....	4032
Star Trak.....	4024
STS.....	4038
SuperDish.....	4028
Teac.....	4049
Thomson.....	4046, 4056
Toshiba.....	4001, 4034
Uniden.....	4005, 4006, 4013
Universum.....	4056
Video Pall.....	4025
Zenith.....	4023, 4025, 4033

TV

Acer.....	1141
Admiral.....	1002, 1009, 1089
Aiko.....	1059
Aiwa.....	1117, 1118
Akai.....	1001
Amtron.....	1023
Anam.....	1113
Anam National.....	1023, 1069, 1092
AOC.....	1003, 1024, 1049, 1127
Audiovox.....	1023
Bell & Howell.....	1009, 1025
Benq.....	1104, 1142
Broksonic.....	1003, 1097, 1098, 1113
Celebrity.....	1001
Citizen.....	1003, 1013, 1023, 1026, 1059, 1063
Colortyme.....	1003, 1043
Contec.....	1113
Contec/Cony.....	1023, 1045, 1047
Craig.....	1020, 1022, 1023, 1113
Crown.....	1023, 1067
Curtis Mathes.....	1003, 1013, 1025, 1026, 1062, 1103, 1110
Daewoo.....	1003, 1013, 1024, 1035, 1036, 1059, 1084, 1101
Daytron.....	1003, 1013, 1016
Dimensia.....	1103, 1110
Dumont.....	1003, 1010, 1153
Electroband.....	1001
Electrohome.....	1001, 1003, 1069, 1133
Emerson.....	1003, 1013, 1015, 1020, 1021, 1022, 1023, 1025 1038, 1044, 1045, 1048, 1055, 1061, 1094, 1096 1099, 1101, 1113
Envision.....	1003
Fisher.....	1025, 1051, 1091, 1160
Fujitsu.....	1038, 1124, 1125, 1155
Funai.....	1023, 1038, 1113
Gateway.....	1150
GE.....	1003, 1018, 1022, 1046, 1054, 1069, 1085, 1103 1110, 1113, 1133, 1136, 1153
Goldstar.....	1003, 1013, 1024, 1030, 1045, 1080, 1100 1112, 1154
Hallmark.....	1003
Hisense.....	1116
Hitachi.....	1003, 1012, 1031, 1032, 1037, 1041, 1045 1047, 1065, 1068, 1082, 1088, 1094, 1139 1140, 1145, 1159
Infinity.....	1067
Janeil.....	1134
JBL.....	1067

JC Penney 1003, 1013, 1018, 1019, 1024, 1026, 1046
1047, 1054, 1063, 1083, 1085, 1100, 1103
1110, 1112, 1133, 1154

Jensen 1003

JVC 1028, 1029, 1045, 1047, 1050, 1060, 1065

Kawasho 1001, 1003

Kenwood 1003

Kloss Novabeam 1023, 1056, 1057, 1134

KTV 1013, 1023, 1033, 1034, 1073, 1099, 1113

LG 1024, 1030

M.Wards 1002, 1009, 1038

Magnavox 1003, 1052, 1053, 1056, 1057
1063, 1067, 1081, 1106

Marantz 1003, 1031, 1067, 1122

Mitsubishi 1003, 1024, 1051, 1115, 1122, 1133

Motorola 1014, 1069

NEC 1003, 1012, 1024, 1043, 1069

NET-TV 1137, 1150

Orion 1020, 1096

Panasonic 1017, 1067, 1069, 1095, 1111

Philips 1003, 1011, 1045, 1052, 1054, 1056, 1057, 1058
1063, 1067, 1069, 1106

Pioneer 1003, 1018, 1037, 1070, 1071, 1094
1145, 1147, 1149

Plasmsync 1135

Portland 1003, 1013, 1024, 1059

Price Club 1026

Prism 1018

Proscan 1004, 1005, 1006, 1007, 1008, 1085, 1103, 1110

Proton 1003, 1045

Quasar 1010, 1069, 1073, 1111, 1153

Radio Shack 1003, 1013, 1015, 1023, 1024, 1025, 1045
1100, 1103, 1110, 1113

RCA 1003, 1004, 1005, 1006, 1007, 1008, 1014, 1024
1049, 1069, 1075, 1079, 1085, 1087, 1088, 1093
1094, 1101, 1103, 1110, 1113, 1153

Realistic 1013, 1015, 1023, 1025, 1045, 1100, 1103, 1110

Runco 1010, 1153

Sampo 1150

Samsung 1003, 1013, 1024, 1026, 1040, 1045, 1062, 1078
1083, 1090, 1100, 1105, 1114, 1120, 1121, 1146
1148, 1157

Sansui 1119

Sanyo 1003, 1025, 1051, 1072, 1077, 1091, 1156, 1157, 1158

Sharp 1003, 1013, 1014, 1015, 1045, 1055, 1064, 1066
1076, 1089, 1123

Signature 1009

Sony 1001, 1102, 1108

Soundesign 1003, 1023, 1038, 1063, 1113

Starlite 1023

Supre-Macy 1134

Sylvania 1003, 1039, 1042, 1052, 1053, 1056, 1057, 1063
1067, 1089, 1151

Symphonic 1023, 1039, 1044

Tandy 1014

Tatung 1069

Technics 1018

Techwood 1003, 1018

Teknika 1003, 1009, 1013, 1023, 1024, 1026, 1038, 1045
1047, 1059, 1063, 1111, 1113

Telecaption 1074

Toshiba 1003, 1019, 1025, 1026, 1042, 1074, 1098, 1107
1111, 1135, 1136

Totevision 1013

Universal 1046, 1054

Video Concepts 1113

Viewsonic 1006, 1022, 1109, 1128, 1129, 1130, 1131
1138, 1143, 1145, 1150

Wards 1003, 1009, 1015, 1024, 1038, 1044, 1046, 1052
1054, 1056, 1057, 1067, 1086, 1103, 1110

White Westinghouse 1001, 1101

Yamaha 1003, 1024

Zenith 1003, 1009, 1010, 1132, 1144, 1153

CD

AIWA 3001, 3002, 3003

AKAI 3004, 3005, 3006

AUDIO 3007

AUDIO LABS 3008

CALIFORNIA 3008

CARVER 3010, 3011, 3009

CASIO 3012, 3020

CURTIS 3020, 3012

DENON 3013

EMERSON 3014

FISHER 3011, 3015, 3016, 3017, 3018

GE 3019

GENEXXA 3014, 3021, 3020

HARMON 3022, 3023, 3051

HITACHI 3020

INKEL 3024

JC PENNEY 3012, 3020, 3025

JVC 3026, 3027

KARDON 3022, 3051, 3023

KENWOOD 3028, 3029, 3030, 3031, 3032, 3033

KRELL 3010

LUXMAN 3035, 3036, 3037, 3038

LX I 3012, 3020, 3014

MAGNAVOX 3010, 3039, 3040

MARANTZ 3010, 3041, 3042, 3043

MATHES 3012, 3020

MCS 3012, 3020

MGA 3023

MISSION 3010

MITSUBISHI 3023, 3044

NAD 3034, 3045

NAKAMICHI 3046, 3047, 3048

NEC MCS 3025

NIKKO 3007, 3016

ONKYO 3049, 3050, 3051, 3052
3055, 3102, 3103

OPTIMUS 3011, 3014, 3020, 3028, 3053, 3054, 3056
3057, 3058, 3059

PANASONIC 3008, 3060, 3061

PHILIPS 3009, 3010, 3010, 3040

PIONEER 3020, 3021, 3062, 3063, 3064

QUASAR 3008

RCA 3011, 3014, 3065, 3066, 3067, 3068, 3069

REALISTIC 3011, 3014, 3020, 3042, 3054, 3057

ROTEL 3010

RS ORIGINAL 3070

SAE 3010, 3083

SAMSUNG 3071

SANSUI 3014, 3068, 3072, 3073

SANYO 3011, 3018, 3074, 3075, 3076

SCOTT 3014

SEARS 3012, 3014, 3020, 3028, 3042

SHARP 3028, 3042, 3077

SHERWOOD 3042, 3056, 3070, 3078, 3024

SHURE 3025

SONY 3039, 3079, 3080, 3081, 3082, 3097, 3098
3099, 3100, 3101

SYLVANIA 3010

SYMPHONIC 3083

TEAC 3016, 3042, 3057, 3083, 3084, 3085, 3086

TECHNICA 3007, 3008, 3061, 3087, 3088

THETA DIGITAL 3040

TOSHIBA 3045

VICTOR 3026

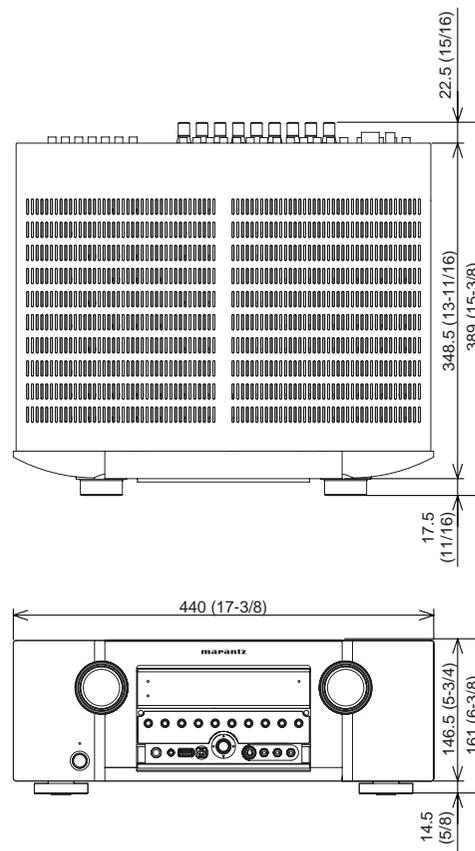
YAMAHA 3007, 3089, 3090, 3091, 3092

ZENITH 3016, 3093, 3094, 3095, 3096

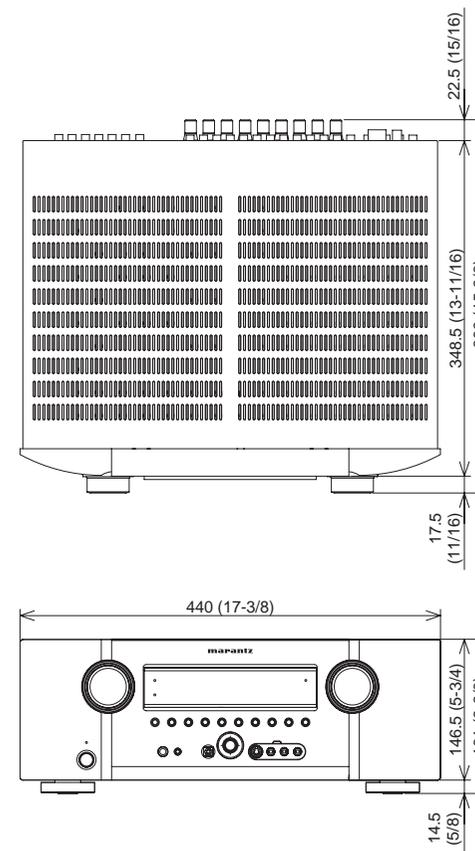
DIMENSIONS

Unit : mm (in)

SR6004



SR5004



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