marantz ®

Model SC-7S1 User Guide

Stereo Control Amplifier

IMPORTANT SAFETY INSTRUCTIONS

READ BEFORE OPERATING EQUIPMENT

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

1. Read Instructions – All the safety and operating instructions should be read before the product is operated.

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

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

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

5. Cleaning – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Attachments – Do not use attachments not recommended by the product manufacturer as they may cause hazards.

7. Water and Moisture – Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

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

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

10. Ventilation – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Sources – This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply in your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. 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 of the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
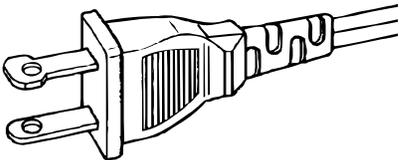
AC POLARIZED PLUG

13. Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

14. Protective Attachment Plug – The product is equipped with an attachment plug having overload protection. This is a safety feature. See the Instruction Manual for replacement or resetting of the protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.

15. Outdoor Antenna Grounding – If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure 1.

16. Lightning – For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

17. Power Lines – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

18. Overloading – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

19. Object and Liquid Entry – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

20. Servicing – Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

21. Damage Requiring Service – Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

   a. When the power-supply cord or plug is damaged.

   b. If liquid has been spilled, or objects have fallen into the product.

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

   d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

   e. If the product has been dropped or damaged in any way, and

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

22. Replacement Parts – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

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

24. Wall or Ceiling Mounting – The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

25. Heat – The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Table of Contents

1. Instruction for use

■ Foreword

This section must be read before any connection is made to the mains supply.

■ Equipment mains setting

Your Marantz product has been prepared to comply with the household power and safety requirements that exist in your area.

"SC7S1/N1G" version product can be powered by 230 V AC only.

"SC7S1/U1G" version product can be powered by 120 V AC only.

■ Copyright

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

■ Precautions

The following precautions should be taken when operating the equipment.

● General Precautions

When installing the equipment ensure that:

— the ventilation holes are not covered;

— air is allowed to circulate freely around the equipment

— it is on a vibration free-surface;

— it will not be exposed to interference from an external source;

— it will not be exposed to excessive heat, cold, moisture or dust;

— it will not be exposed to direct sunlight;

— it will not be exposed to electrostatic discharges

Never place heavy objects on the equipment.

If a foreign body or water does enter the equipment, contact your nearest dealer or service center.

Do not pull out the plug by pulling on the mains lead, pull from the plug itself.

It is advisable when leaving the house, or during a thunderstorm, to disconnect the equipment from the mains supply.

■ How to use batteries

Improper use of batteries may cause the risk of fluid leakage or explosion.

Be especially careful in the following points.

① Insert the batteries with the correct and polarity as indicated inside the battery case.

② Do not use a brand-new battery and used battery together.

③ Dry cell batteries may produce different voltages even when their shapes are the same. Do not use different types of batteries together.

④ Some batteries are rechargeable and some are not. Be sure to read the caution and instructions described on each battery.

⑤ Used batteries should be disposed of in compliance with the treatment method specified for your local area.

2. Accessories

After opening the cover of the packing box, check that the following accessories are included.
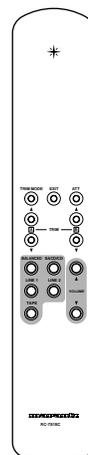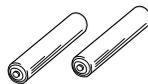
● AC Power Cable
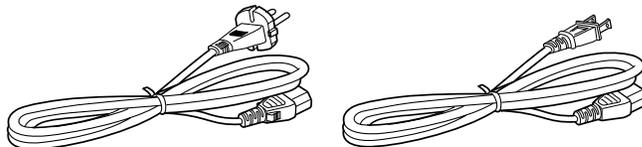
(Model SC7S1/N1G)   (Model SC7S1/U1G)

● Remote Control RC-7S1SC

● AAA (R03) Batteries

● Remote Cable

● Instruction Manual (this Copy)

3. Main features of this product

● **The concept: channel separation for super wide range & dynamic audio**

We think it's of the utmost importance to extend high frequency response as well as channel separation so you can hear the true meaning of "Super Audio."

This is why we have designed the input and output circuitry, volume control section, and power supply circuits according to this philosophy.

The result: an astonishing channel separation of over 100dB at 20kHz.

● **Fully balanced control amp with an linear volume control**

The SC-7S1 is a full balanced, two-channel control amp providing the channel separation you need for Super Audio. Based on our own high quality four-gang active volume control we have developed an even better linear control volume that reduces gang errors from 0 to 100dB, ±0.5dB. By adding an additional HDAM SA (High Definition Amplifier Module), we improved the Common Mode Reject Ratio (CMRR) dramatically, attaining an incredible ultra-wide frequency band of 150kHz and succeeded in producing the perfect control amplifier for Super Audio CD.

● **HDAM SA**

The feedback impedance of the Current Feedback circuit was reduced to its minimum to make it faster. We developed a new High Definition Amplifier Modules (HDAM), a separeted module operating as a buffer for the amplifier. The SC-7S1 has four HDAM SAs on each input-output buffer and another four units on the V/I converter.

● **Choke input system**

In the power supply section, the choke input topology was adopted to drastically reduce rectifier harmonic noise. This system is especially suitable for a control amplifier in which very small signal amplification occurs.

● **Floating control bus system**

We make it possible to synchronously drive two or more control amps by using a floating control bus system connected to as many as 6 sets of control amplifiers. We also enable you to trim levels using the remote control, making it easy to set up the optimal sound field on a multi-channel configuration. The highest achievable stereo performance can be accomplished when a system configured with two sets of SC-7S1 and four sets of MA-9S1 are connected in a bi-amped mode.

You will experience superb sound with unbelievable channel separation.

4. Connections

Connection 1   Stereo connection

➡ : Signal flow
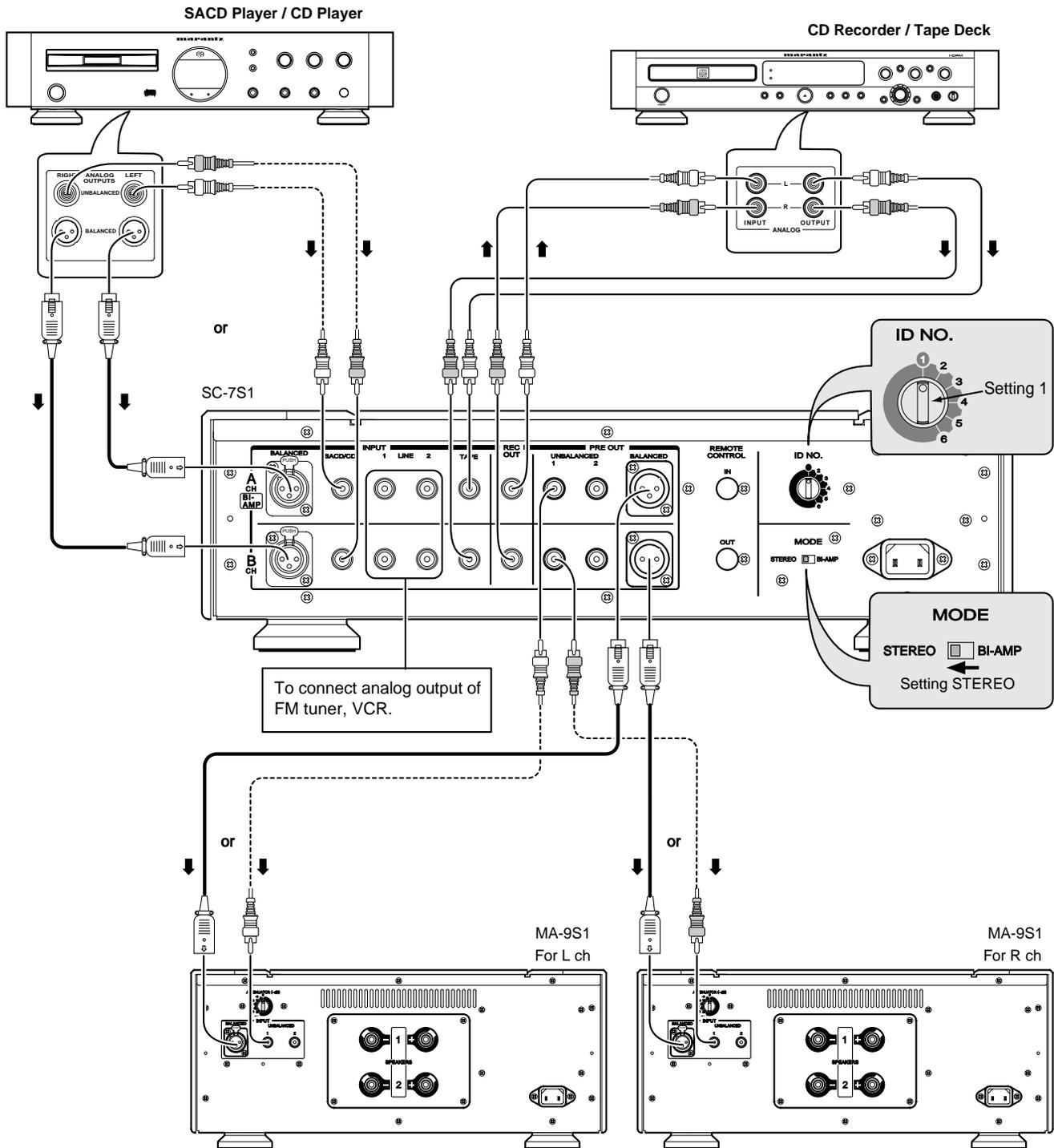
SACD Player / CD Player

CD Recorder / Tape Deck

SC-7S1

ID NO.

Setting 1

To connect analog output of
FM tuner, VCR.

MODE

STEREO ▢ BI-AMP

Setting STEREO

or

or

or

MA-9S1
For L ch

MA-9S1
For R ch

This connection can have options i.e. You may connect the units using either balanced or unbalanced
cables to connect your SACD/CD and control Amp, as well as the SC-7S1 with MA-9S1s. But you can not
inter match.

Connection 1–4 are recommended by Marantz for SC-7S1 with Marantz MA-9S1.
If using the MA-9S1s, Please read the instruction manual for the MA-9S1.
Name and Function → P13

Standard set-up in using Marantz Monaural Power Amp MA-9S1.
Please refer to this connection in the event of using other Power Amps also.

- SC-7S1 doesn't have a Phono equalizer. So in the event of using a turn table, please use a Phono equalizer to connect with the SC-7S1.
- In the event that stereo L ch signal has been wired with A ch input, the signal will come out of the pre-out of the A ch. Please pay attention to L ch, R ch if SC-7S1 is connected with other equipment.

■ Balanced terminal

① The balanced output connector uses a XLR connector.

② The XLR connector is internally wired in either of the following two systems.

    1.   USA system (Pin 2 = COLD, Pin 3 = HOT)
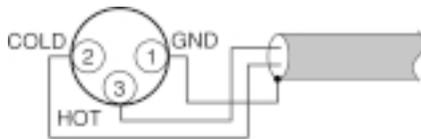
    2.   European system (Pin 2 = HOT, Pin 3 = COLD)
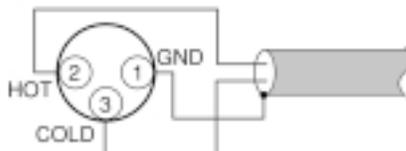
③ The SC-7S1 uses the USA system of 1.
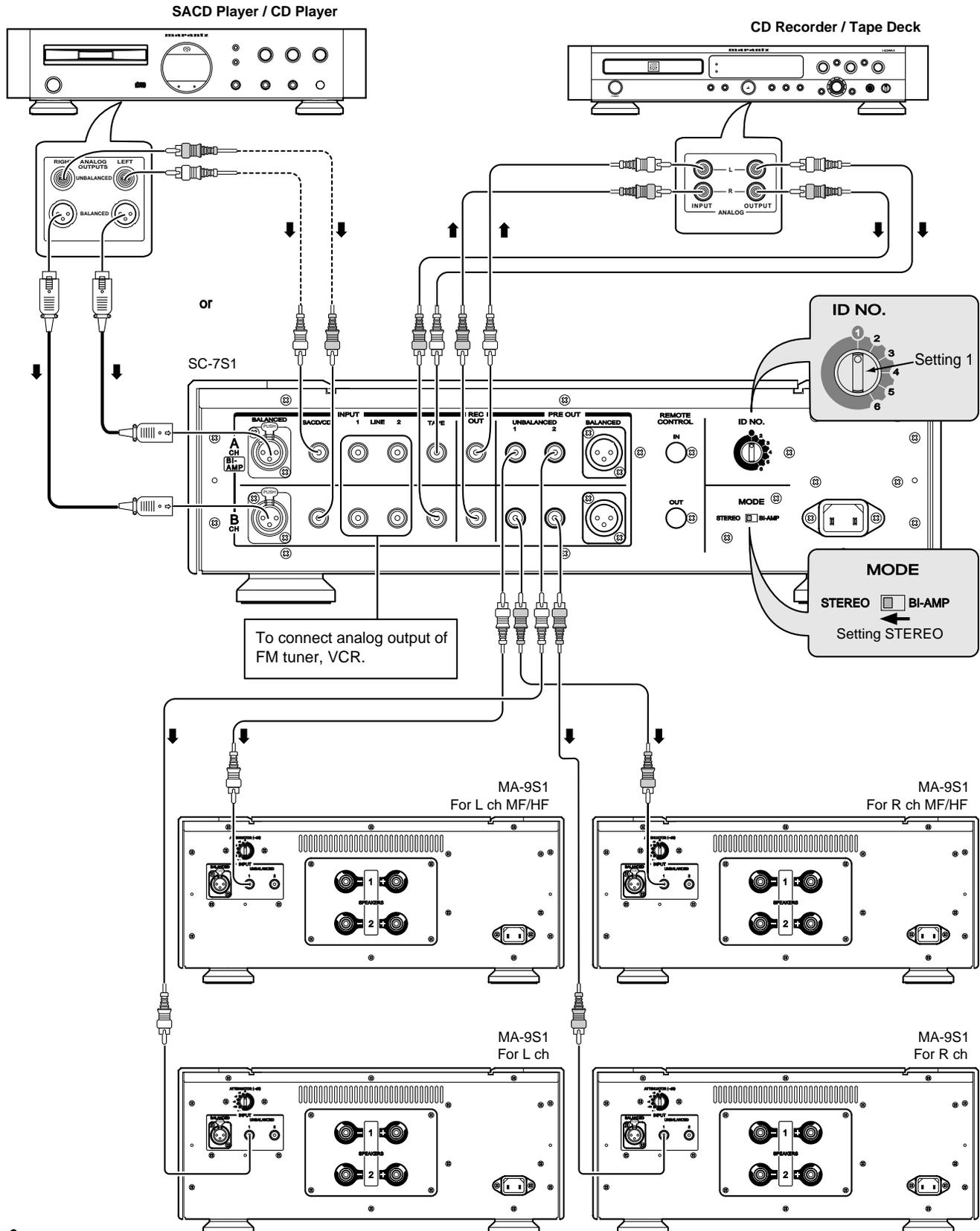
When a preamp or main amplifier adopting the European system is connected using a cable with XLR balanced connectors, the reproduced signal may be inverted of phase.

In this case, correct the wiring of one of the XLR connectors on the extremities of the cable to the USA system by exchanging the connections of pins 2 and 3. This will make it possible to play the signal with the correct phase.

4. Connections

Connection 2   Bi-Amp connection
(Make sure your speakers are designed for Bi-Amp capabilities)

➡ : Signal flow

SACD Player / CD Player

CD Recorder / Tape Deck

or

SC-7S1

ID NO.

Setting 1

To connect analog output of
FM tuner, VCR.

MODE

STEREO ☐ BI-AMP

Setting STEREO

MA-9S1
For L ch MF/HF

MA-9S1
For R ch MF/HF
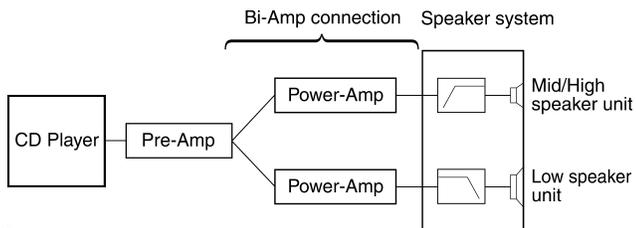
MA-9S1
For L ch

MA-9S1
For R ch

This connection can have options i.e. You may connect the units using either balanced or unbalanced cables to connect your SACD/CD and control Amp. But you can not inter match.
Please select either way of connection.

Enhance the connection 1 to Bi-Amp connection, and drive the Bass speaker and Mid/High speakers with separate power Amplifiers.

■ Bi-Amp (connection)

The benefits of Bi-Wiring; drive the Bass speaker and Mid/High speakers with separate power Amplifiers. Bi-Amping will lessen the burden of Power Amp impedance, so that back electromotive force between the Low and Mid/High signal can be lessened. We can expect drastic improvement of sound quality.

Bi-Amp connection   Speaker system

CD Player — Pre-Amp — Power-Amp — Mid/High speaker unit
                    — Power-Amp — Low speaker unit

Caution

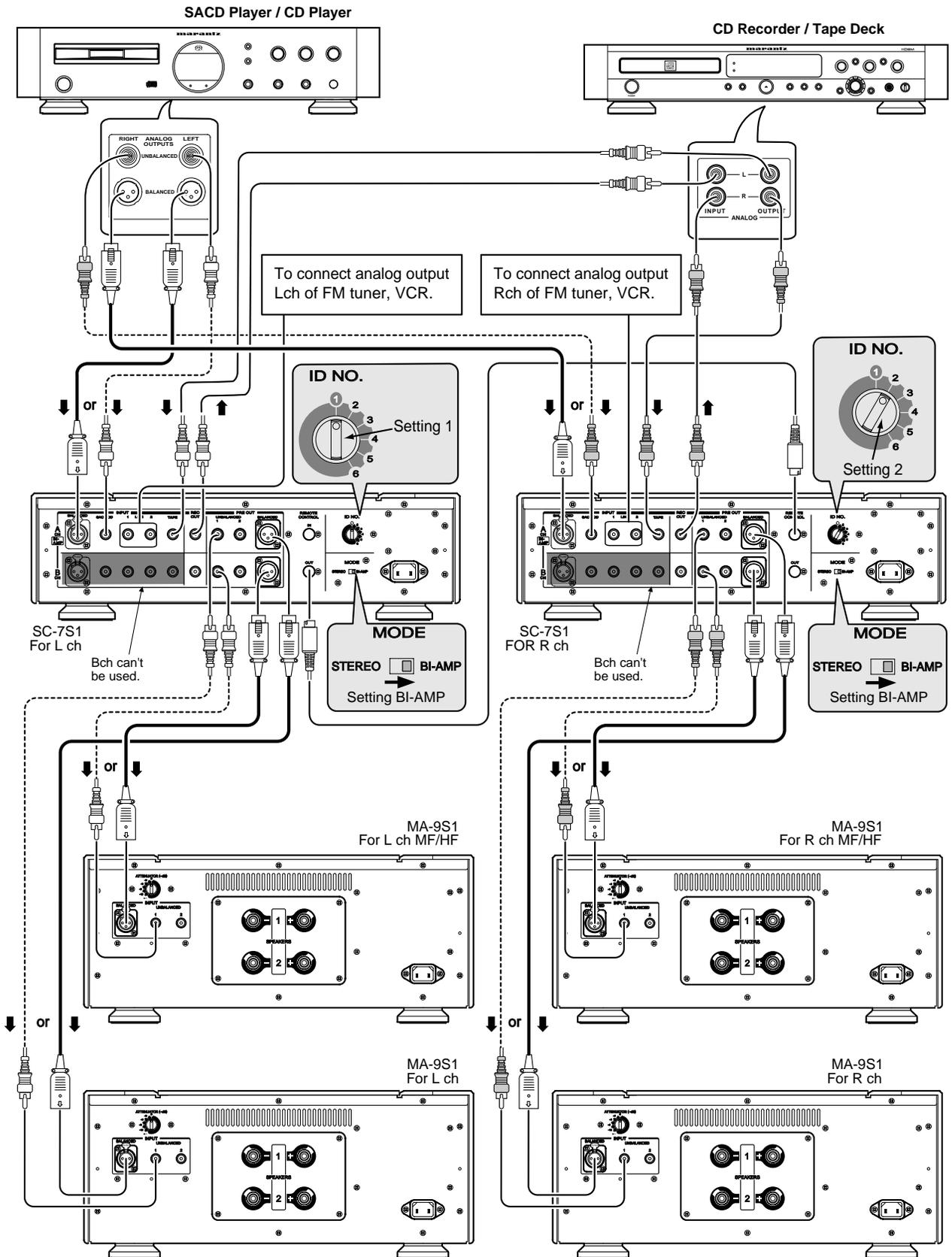If the Mode switch on the S C-7S1 is set to stereo, then the unbalanced connections must be used.

4. Connections

Connection 3   Complete Bi-Amp connection
(Make sure your speakers are designed for Bi-Amp capabilities)

➡ : Signal flow

SACD Player / CD Player

CD Recorder / Tape Deck

RIGHT ANALOG LEFT
OUTPUTS
UNBALANCED

BALANCED

L

R
INPUT   OUTPUT
ANALOG

To connect analog output
Lch of FM tuner, VCR.

To connect analog output
Rch of FM tuner, VCR.

ID NO.
Setting 1

ID NO.
Setting 2

or

or

SC-7S1
For L ch

Bch can't
be used.

MODE

STEREO □ BI-AMP

Setting BI-AMP

SC-7S1
FOR R ch

Bch can't
be used.

MODE

STEREO □ BI-AMP

Setting BI-AMP

or

or

MA-9S1
For L ch MF/HF

MA-9S1
For R ch MF/HF

or

or

MA-9S1
For L ch

MA-9S1
For R ch
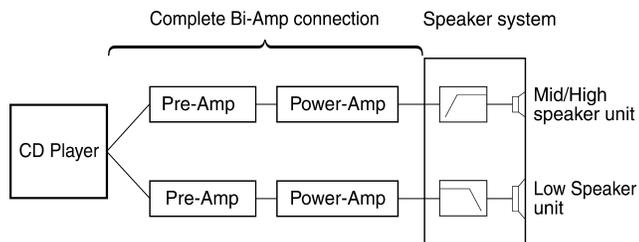
8

This connection can have options i.e. You may connect the units using either balanced or unbalanced cables to connect your SACD/CD and control Amp. But you can not inter match. Your Control Amp & Power Amp can also be wired the same way. Please select either way of connection.

■ Complete Bi-Amp connection

Enhance connection 2, by having one more control Amp. SC-7S1, this is a wiring which separates Mid/High signal and Low signal from the Pre-Amp section. In this event, the SC-7S1 is used as Monaural Pre-Amps. And separate Left/Right channels from the output terminal of CD player. As a result, influences between L channel and R channel Mid/High signal and Low signal will be eliminated.

Complete Bi-Amp connection   Speaker system

CD Player — Pre-Amp — Power-Amp — Mid/High speaker unit
CD Player — Pre-Amp — Power-Amp — Low Speaker unit

By connection with the remote cable, a maximum of 6 SC-71s can be operated together.

Caution

In the event of setting the mode switch as <Bi-Amp>, B channel input can't be used.

4. Connections

■ Installing the SACD multi-channel audio speakers

In order to enjoy SACD multi-channel sound with the best possible acoustics, it is recommended that the speaker systems be laid out in compliance with the ITU-R BS.775-1 recommendation which is a standard formulated by the International Telecommunication Union (ITU).
SACD multi-channel discs are recorded and mixed in such a way that they will achieve the optimum effects when the speaker systems are laid out as per the ITU-R BS.775-1 recommendation.

- On SACD multi-channel discs, the music signals are basically recorded using 5 channels (or 3, 4 or 6 channels in some cases). In some instances, however, LFE (for the sub woofer) is recorded as a sixth channel.
  Each disc indicates how many channels have been recorded on it.

- The basic settings are 3 speakers for front and 2 for back since multi-channel discs have basically 5 channels
  The 2-front, 1-center, and 2-surround speakers should be set on the circle from the listening point as shown below. When you use different sizes of speakers, please adjust the volume balances.

- The location of the sub-woofer in the picture is just an example. The Sub-woofer can be located any place in your room. (See the users manual of your sub-woofer.)
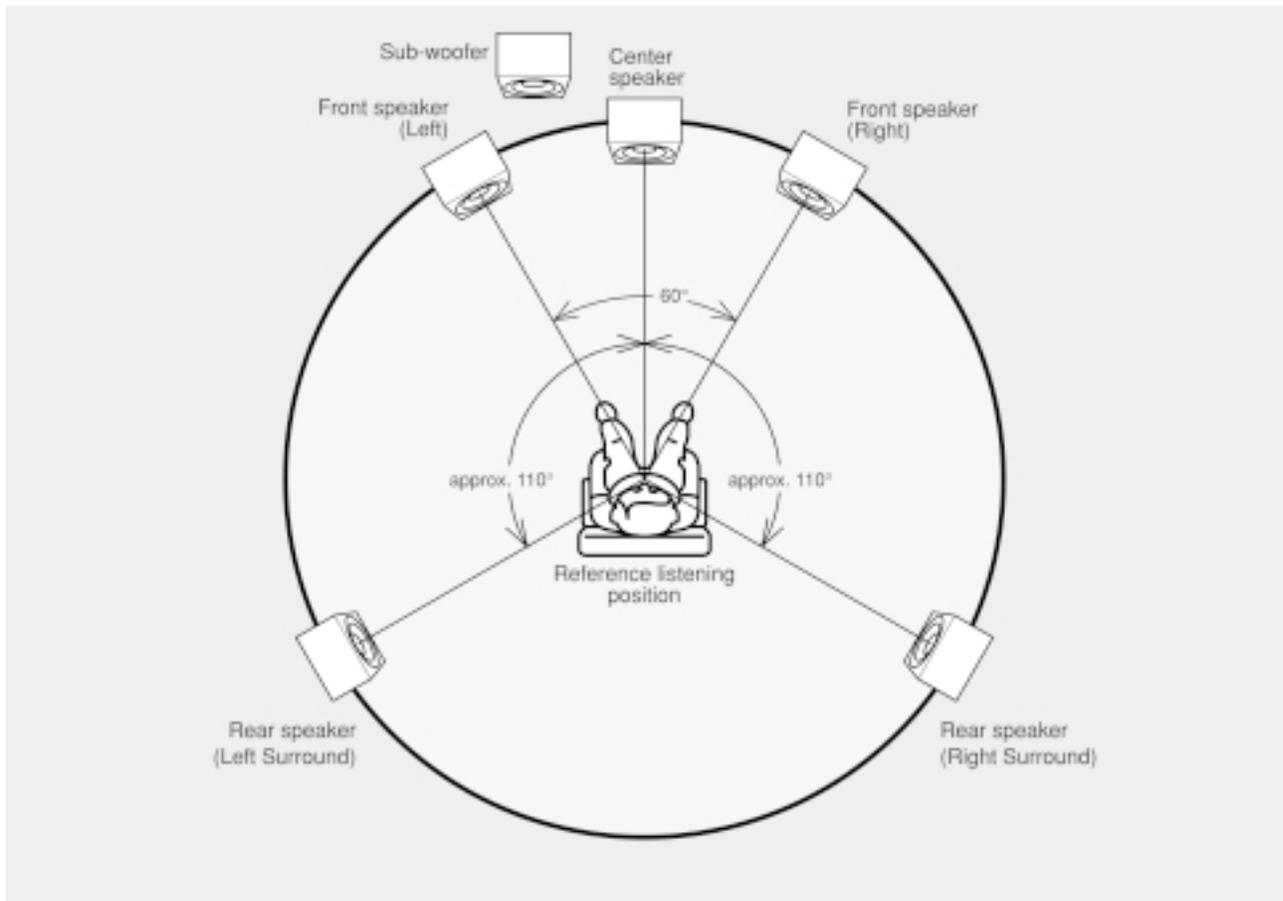
Connection 4   5.1ch multi-channel connection

This Connection is standard for Multi-channel sound source. This will enable you to experience the high quality sound acoustic for the professional Home theatre and pure multi channel SACD. The complete system is controlled using 3 SC-7S1 Stereo Control Amplifiers.
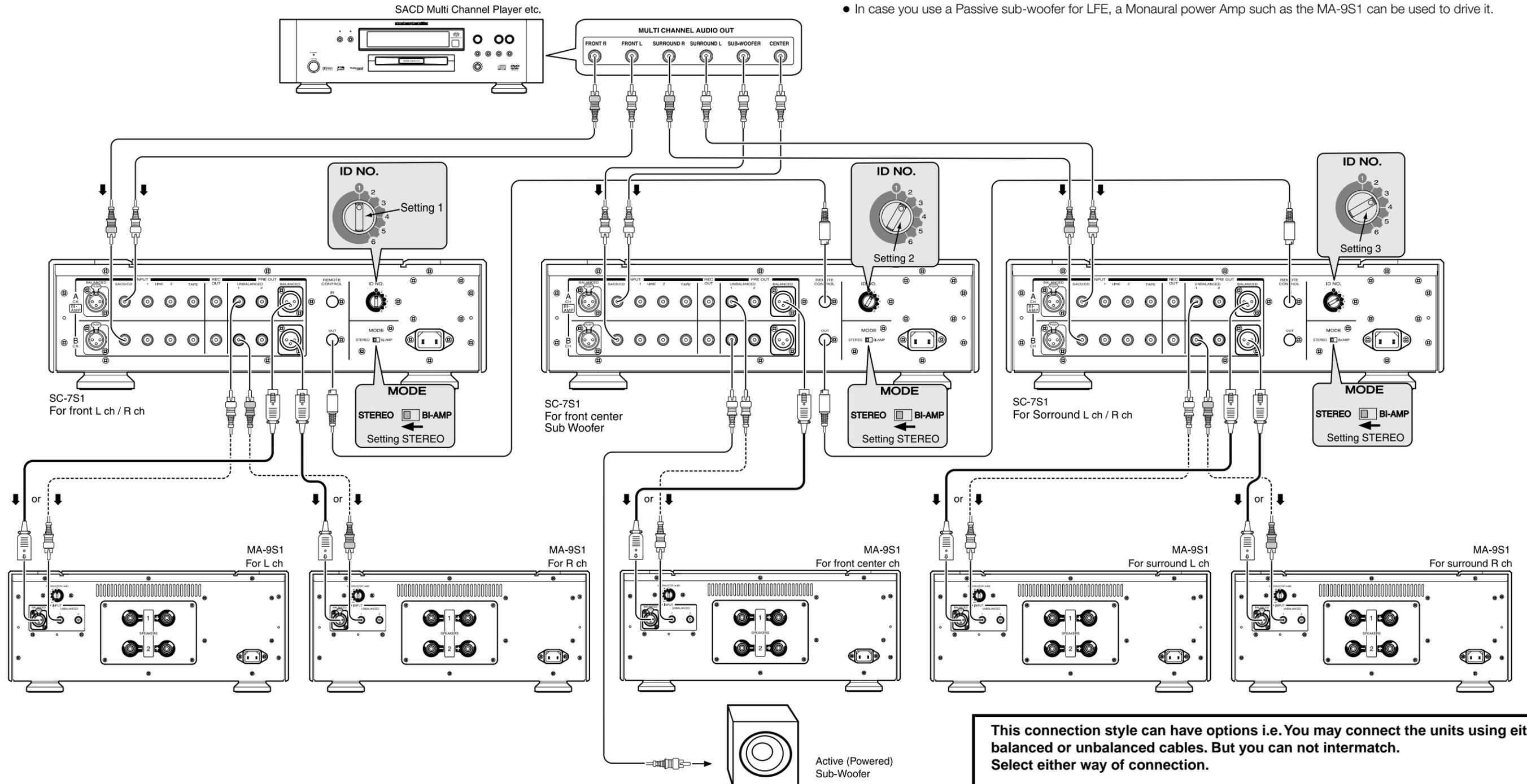
The system can be enhanced to
- <3 SC-7S1s + 10 MA-9S1s + Active sub-woofer>
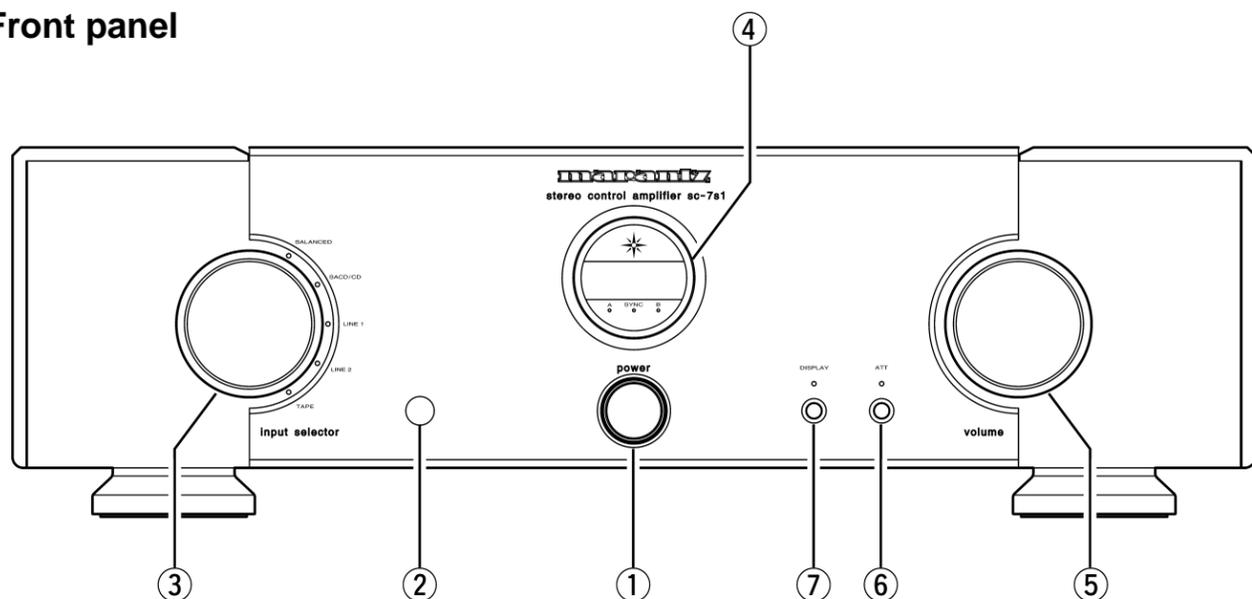- <6 SC-7S1s + 10 MA-9S1s + Active sub-woofer>

Caution
- If you use an Active (powered) sub-woofer for LFE, please refer to the User's manual of the Active sub-woofer for set-up instructions. LFE (Low frequency Effect) is the channel for Low Frequency only.
- In case you use a Passive sub-woofer for LFE, a Monaural power Amp such as the MA-9S1 can be used to drive it.

➡ : Signal flow

SACD Multi Channel Player etc.

MULTI CHANNEL AUDIO OUT

FRONT R   FRONT L   SURROUND R   SURROUND L   SUB-WOOFER   CENTER

ID NO. — Setting 1

ID NO. — Setting 2

ID NO. — Setting 3

SC-7S1
For front L ch / R ch

SC-7S1
For front center
Sub Woofer

SC-7S1
For Sorround L ch / R ch

MODE   STEREO ◻ BI-AMP   Setting STEREO

MODE   STEREO ◻ BI-AMP   Setting STEREO

MODE   STEREO ◻ BI-AMP   Setting STEREO

or   or   or   or   or

MA-9S1
For L ch

MA-9S1
For R ch

MA-9S1
For front center ch

MA-9S1
For surround L ch

MA-9S1
For surround R ch

Active (Powered)
Sub-Woofer

**This connection style can have options i.e. You may connect the units using either balanced or unbalanced cables. But you can not intermatch.
Select either way of connection.**

11

5. Name and function

Front panel

① Power switch

The switch is used to Power the unit ON and or OFF. Once the unit is powered On, the indicator of the Input Selector will illuminate for the source selected. The SC-7S1 will be ready in approximately 8 seconds.

② Remote control sensor

This is the IR (Infra Red) window which receives IR control signals being sent from the remote control.
How to use remote control → p.14

③ Input selector knob

The input Selector Knob will determine what source is being played as well as well as able to be recorded. When the Source is selected, the Blue indicator will be illuminated to verify the source selected. When the unit is powered down, the last selected source will be held in memory. When the unit is powered on again, the last selected source will be selected. When tape is selected, there will be no signal output, to the record output.

④ Display section

Displays the settings & volume level.

⑤ Volume knob

The Volume knob is used to increase & decrease the overall volume level. By turning the Volume Knob clockwise, the volume will be increased. By turning the Volume Knob counter clockwise, the volume will decrease. When powering the unit off, the last volume setting will be memorized.

⑥ ATT (Attenuation) button, indicator

The ATT button is used to reduce the volume quickly, with just one touch. Once the button is pressed, the volume will be decreased. The Volume Display will begin blinking & the Volume Indicator above the ATT button will illuminate. If you press the ATT button again, the Volume Display will stop blinking & display the Volume level. You can decrease the volume by 20dB, 40dB & 60dB. Please refer to page 16 for further information regarding Attenuation functions.

⑦ Display button, indicator

This button is to turn off the Volume Indicator & the Light for the Volume Indicator. If the volume Indicator & light are on, and you press this button, they will both be turned off. Also, the light above this button will be illuminated. If you make any adjustment the Volume Indicator & Light will come on for 3 seconds, then shut off again. If you press this button again, the Volume Indicator & Light will be turned on and the light above this button, will shut off.

Display section
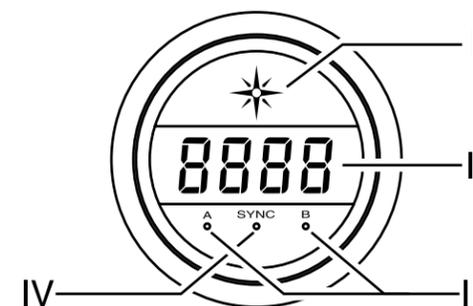
I Power indicator

This Indicator is to show if the power is on. When power is on, the blue light will be illuminated.

II Volume indicator

This will display the volume level and changes made to the volume with either the Remote Control or the Volume Knob on the face of the unit. After 3 seconds of being powered on, the ID number will be displayed. The ID number is changed by the ID switch on the rear panel of the unit. If the attenuate function or trim adjustment is being used, the levels will also be indicated. If using several SC-7S1s, and they are not connected properly, and error code will be indicated.
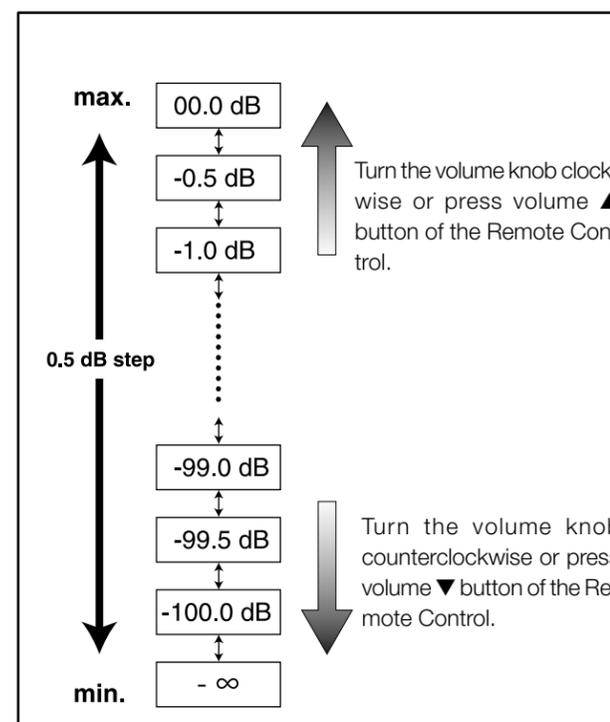Error message → p20

III A/B CH Indicator

During trim adjustment, the indicator lights will be illuminated in accordance to the adjustments.
See Trim adjustment → p17

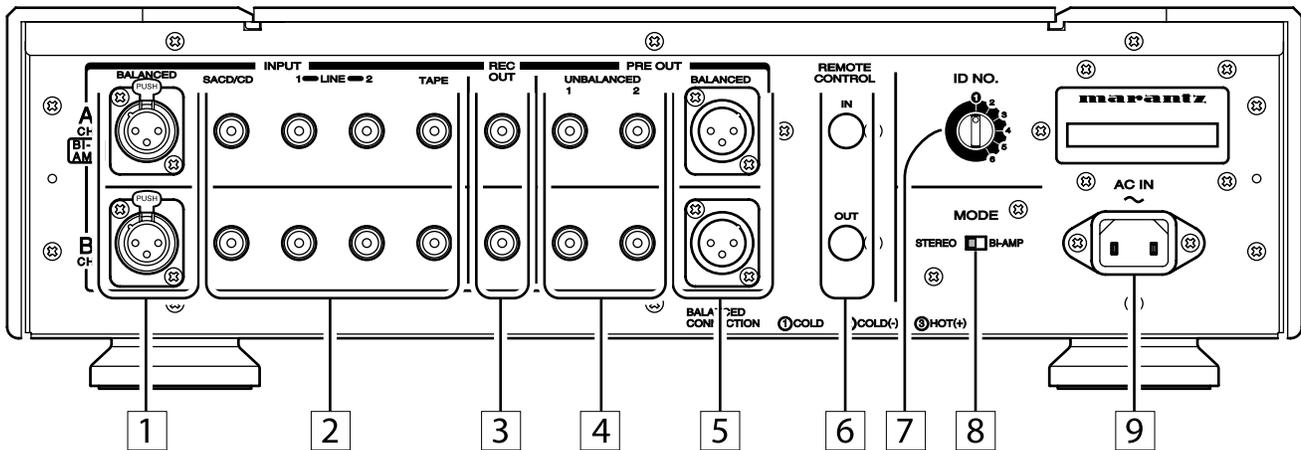## IV SYNC (Synchronized) Indicator

The indicator will be illuminated in accordance with the ID number setting.

- Green color illuminated:
  ID No. is set up <1>.
- Red illuminated:
  ID No. is set up 2–6 (several SC-7S1 are connected)
  In this state, the unit can not be operated via the remote control, or by the unit itself.
- Light off:
  There is an error in the remote connections.
- Green or Red color will be flashing:
  While trim is being adjusted.

When you use the remote control, please face it towards the SC-7S1.

max. | 00.0 dB
-0.5 dB
-1.0 dB

Turn the volume knob clockwise or press volume ▲ button of the Remote Control.

0.5 dB step

-99.0 dB
-99.5 dB
-100.0 dB

Turn the volume knob counterclockwise or press volume ▼ button of the Remote Control.

min. | – ∞

Rear panel

1 Input Balanced terminal

This terminal is to connect the components which have balanced outputs i.e. SACD, CD Player.

When Bi-Amping, terminal B can not be used.

Balanced terminal → p5

2 Input SACD/CD, Line 1, Line 2, Tape (Unbalanced) terminal

This terminal is to connect the unbalanced terminals of components., i.e. SACD, CD etc.

When Bi-Amping, terminal B can not be used.

3 REC out terminal

The terminal connects to the Input of Recording equipment i.e. CD Recorders, DAT etc.

When Bi-Amping, the signal being input to channel A, will be output to both A & B channels.

4 Pre out Unbalanced 1,2 terminal

This connects to the un balanced inputs of a Power Amp. When Bi-Amping, the signal being input to channel A, will be output to both A & B channels.

5 Pre out Balanced terminal

This terminal is connected to the Balanced input of the Power Amplifier. When Bi-Amping, the signal being input to channel A, will be output to both A & B channels.

6 Remote control In/Out terminals

These terminals are for connecting one or more SC-7S1s to each other. The IN is for receiving control signals. The OUT is for sending Control signals.

7 ID No. switch

Whilst several SC-7S1 are connected, to set up respective ID No. to distinguish each products.

When only 1 unit is used, the No. will be set 1. Initial setting is <1>.

This switch is to give ID numbers to each SC-7S1, when two or more are used. When using only 1, SC-7S1 the ID switch is set to 1. Factory setting is 1.

Trim adjustment in case of several units of SC-7S1 → p18

If using 2 or more SC-7S1s, you can use the trim Adjustment. See page 18.

8 Mode switch

The switch to change Stereo mode and Bi-Amp mode. Initial setting is <stereo>.

- In case the SC-7S1 is used for normal 2 channel.
  Setting <Stereo> mode.

- In case of complete Bi-Amp connection with 2 units of SC-7S1.
  Setting <Bi-Amp> mode.
  In case of <Bi-Amp> mode, the signal input from A channel will be out to both of A/B channels through the Pre-out terminal and REC out terminal.
 Then, the input terminal on B channel can not be used.

This switch is to switch between Stereo & Bi-Amp Mode. Factory setting is Stereo. Stereo is used for using only 1 SC-7S1. If using 2 or more SC-7S1s, you will set the switch to Bi-Amp Mode. When Bi-Amping, the signal being input to channel A, will be outputted to both A & B channels through the Pre-out & REC out terminals. The B input terminal can not be used in Bi-Amp Mode.

9 AC IN socket

Connect to a household power outlet with supplied AC CORD.

Remote controller
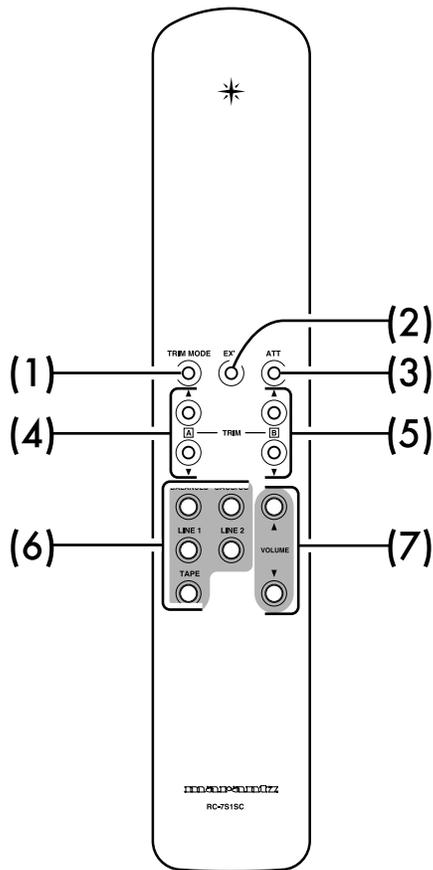
(1) Trim Mode
Button to switch to Trim mode for trim adjustment.

(2) Exit button
Button to finish Trim mode after Trim adjustment.

(3) ATT (Attenuation) button
Button to attenuate at one touch.

(4) Trim-A ▲/▼
(Trim A Channel up/down) button
Button to fine-tune the output level of the A ch by Trim adjustment.

(5) Trim-B ▲/▼
(Trim B Channel up/down) button
Button to fine-tune the output level of the B ch by Trim adjustment.

(6) Input selector button
Button to select input source.

(7) Volume ▲/▼
(Volume up/down button)
Button to adjust volume.

■ For using the Remote Control

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

1 Remove the battery cover which is found on the back side of the remote control.
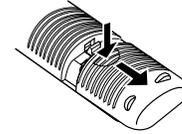
2 Load the two new size "AAA" batteries inside the battery compartment while taking care to align their polarities correctly with the polarity markings ($\oplus$ with $\oplus$ and $\ominus$ with $\ominus$).
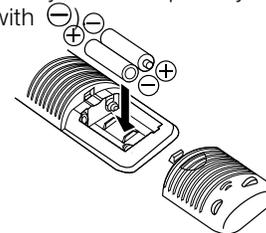

3 Push the cover on the back side in the direction of the arrow to close.
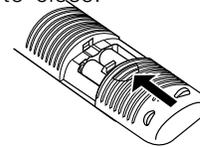
● Operatable range of the Remote control
Operate the remote control unit (RC-7S1SC) within a distance of approx. 5 m from the infrared signal reception window (remote sensor) on the front of the SC-7S1.
Remote control operation may not be possible if the remote control unit's transmitter is not pointing in the direction of the remote sensor or if there is an obstruction between the transmitter and the remote sensor.

Approx. 5m

60°
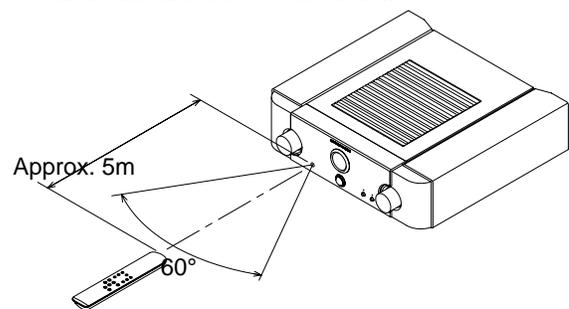
● Caution
Do not allow direct sunlight, an inverter fluorescent light or other strong source of light to shine onto the player's infrared signal reception window (remote sensor). Otherwise, the operation of the remote control unit may be disabled.
Bear in mind that operating the remote control unit may cause other devices operated by infrared rays to be operated by mistake.
The remote control unit cannot be operated if the space between the controller and the player's remote sensor is obstructed.
Do not place any objects on top of the remote control unit. Doing so may cause one or more buttons to be held down which will cause the batteries to run down.
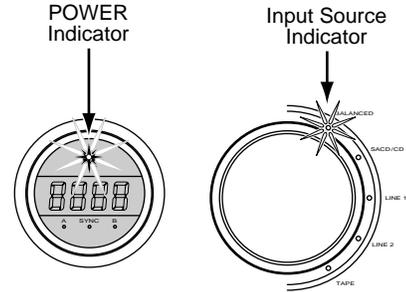
6. Standard operation

■ How to Play
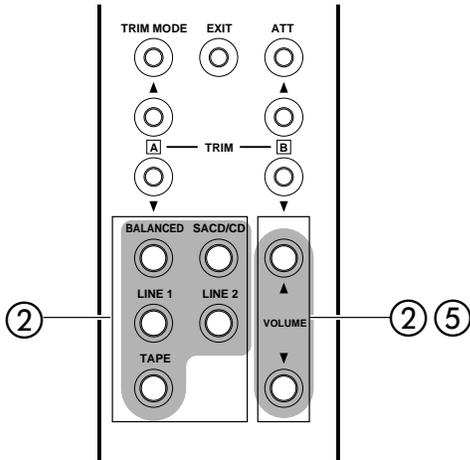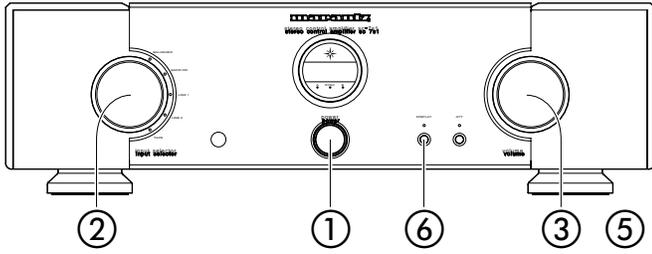
① Power on the SC-7S1. In case you have several SC-7S1s connected, please power on from the smaller No. of ID to the larger No.

Once the power is on, the Front display and input indicator for the currently selected source will be illuminated.

POWER Indicator

Input Source Indicator

Upon initial turn on, the sound will be muted, for approximately 8 seconds.

② Select the input source by the input selector button or the Input select button on the Remote control.

③ It is recommended to turn the volume down to the minimum level after each use, before Powering the unit off.

④ Play music by operating equipments such as CD Players.

⑤ Adjust the volume by the buttons ▲/▼ of SC-7S1 or the Remote control.

⑥ If the display button is pressed, the volume indicator will be turned off.

■ How to record
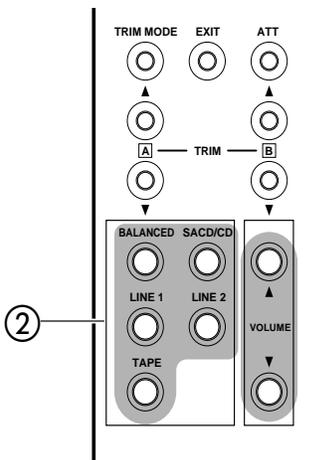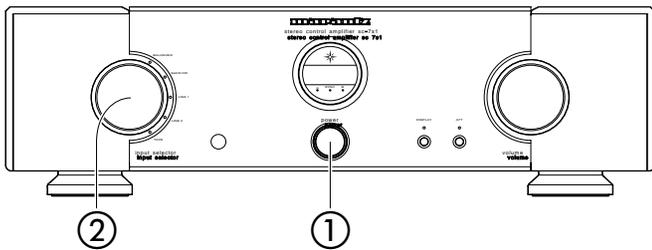
① Power on SC-7S1.

Select the source you want to record via the Input selector on the SC-7S1, or The Remote Control. Prepare for Playback of the selected source. Make sure your recording unit, is connected to the REC output terminal. Perform operations on your recording device to begin recording. If (Tape) is selected, for your input source, you will not be able to record, Because there is no analog output to the REC out.
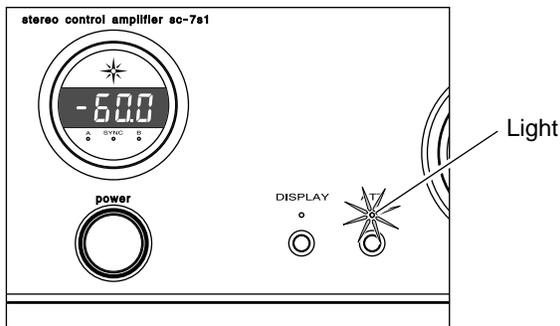
7. How to operate function and how to set up

■ Attenuate function

With one touch, the volume can be decreased, instantly. The ATT button on the SC-7S1 or the Remote Control, is used for this function.

Unit   Remote Controller

or
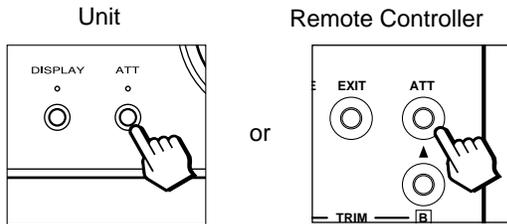
The volume will be indicated in the display window & the indicator above the ATT button will be illuminated.

Light

Factory setting is -20dB. But this can be changed to -40dB, or -60dB.

■ How to set up the attenuation level

① Press ATT button for more than 2 seconds.

② The Indicator above the ATT button will begin to flash, the volume indication will be changed to the attenuation level setting.

Flash

③ Press the ATT button, the attenuation level will be changed with every press.

Attenuate function   level Setting

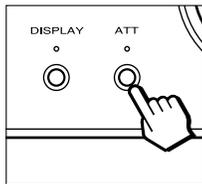| -20 dB |
| -40 dB |
| -60 dB |
| - ∞ |
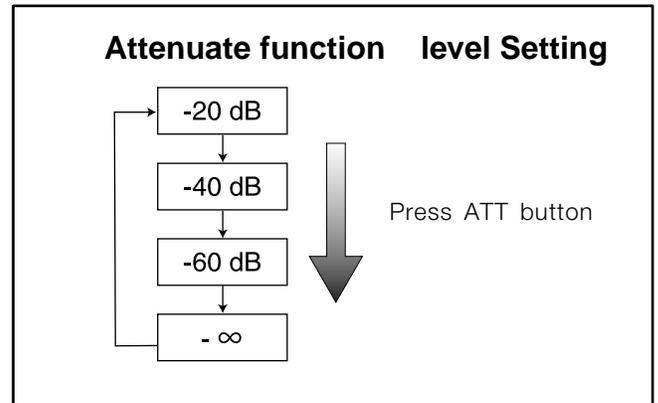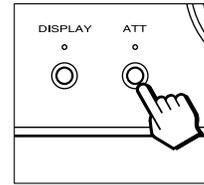
Press ATT button

④ Unless the button is pressed within 2 seconds, the attenuation level will be fixed. Once the level is fixed, the display will turn back to the volume indication.
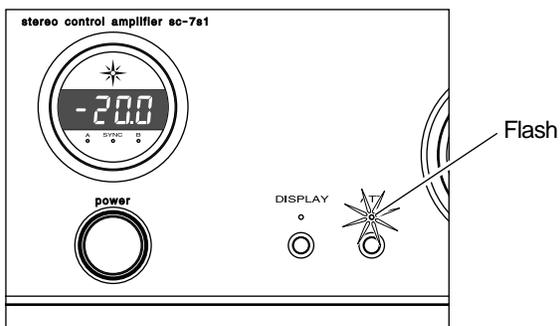
The setting will be memorized.

■ Trim adjustment function

You can adjust the output level within -6.0dB–+6.0dB (0.5dB step) for each channel.

● How to adjust Trim setting
In case of 1 unit

① Press the Trim mode button on the Remote control.
Then A ch indicator on the Front display will illuminate red, the Green colored Sync indicator will begin flashing. The Volume indicator will show the Trim adjustment level on the A ch.
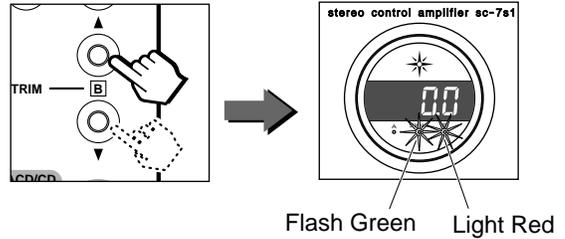

Light Red   Flash Green
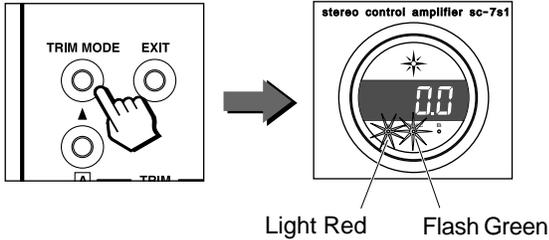
② Once the Trim-A button ▲ on Remote control is pressed, The Trim adjustment level will be increased by 0.5 dB step, and the output level on the A ch will be increased.
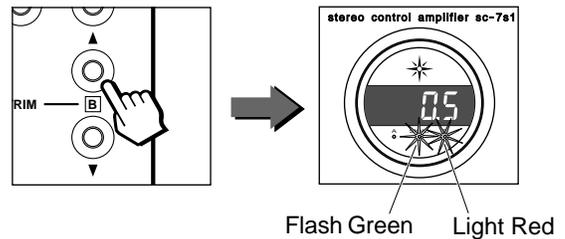

Light Red   Flash Green
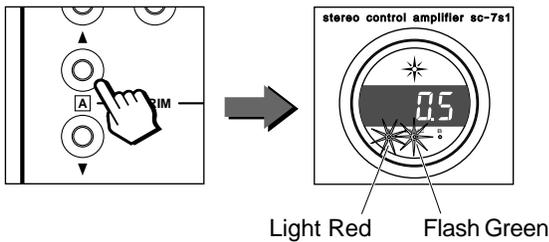
Once Trim-A button ▼ on Remote control is pressed, the Trim adjustment level will be decreased by 0.5 dB step, and the output level on the A ch will be decreased.


Light Red   Flash Green
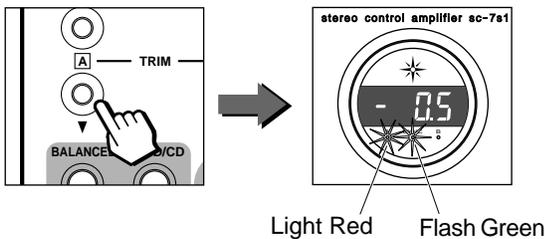
③ Once the Trim-B button ▲ or ▼ on Remote control is pressed, Indicator on the A ch will be turned off, the indicator on the B ch will be illuminated. Then Sync indicator remains flashing Green.

Flash Green   Light Red

The Volume indicator will show the Trim level on the B ch. Once the Trim-B button ▲ on the Remote control is pressed, the Trim adjustment level will be increased by 0.5 dB step, the output level on the B ch will be increased.

Flash Green   Light Red

Once the Trim-B button ▼ on the Remote control is pressed, the Trim adjustment level will be decreased by 0.5 dB step, the output level on the B ch will be decreased.

Flash Green   Light Red
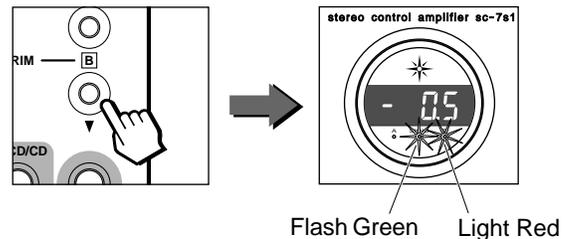
④ Once you have completed the trim adjustment, press the Exit Button on the remote control. This concludes the adjustments and memorized them.
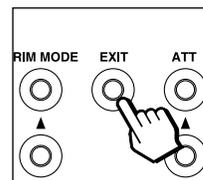
7. How to operate function and how to set up

If using more than 1 SC-7S1
Set up the ID numbers to the respective SC-7S1s to identify each of the SC-7S1s.

① Set up the ID No. switch <1> for the main unit of the SC-7S1 to control others, which is called <Master> unit.
The ID No. set up will be indicated in the display window for 3 seconds when the unit is powered on.
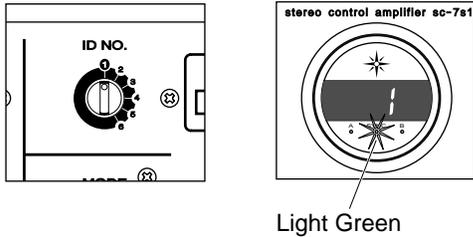
Light Green

② Set up the other SC-7S1s <2>–<6> which will be controlled by the Master.
They are called <Slave> units.
The ID No. set up will be indicated in the display window for 3 seconds when the unit is powered on.
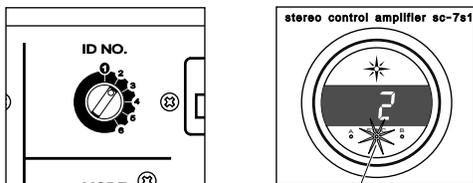
Light RED

③ The Trim adjustment set by the Master, will be the same for all Slave SC-7S1s.

④ Once the set up for the Trim has been finished, press the Trim mode button on the Remote control.
The trim adjustment will move from Master to Slave. Then the indicator on the Front display of the Slave will illuminate Red, the Sync indicator will flash Red.
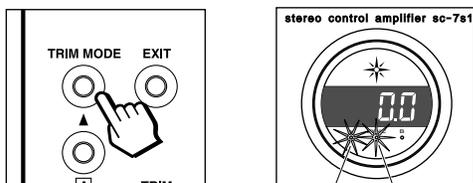
Light Red   Flash Red

⑤ Please refer to p.17 for Trim adjustment .

If the whole system consist of more than 3 units, please repeat the same procedure and set up the remaining units.

Make sure to change the ID # in the SC-7S1 to match the ID # of the amplifier being adjusted.

⑥ Once you have completed the trim adjustment, press the Exit button on the remote control. This concludes the adjustments and memorizes them.
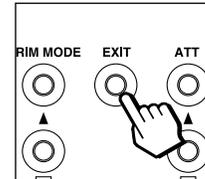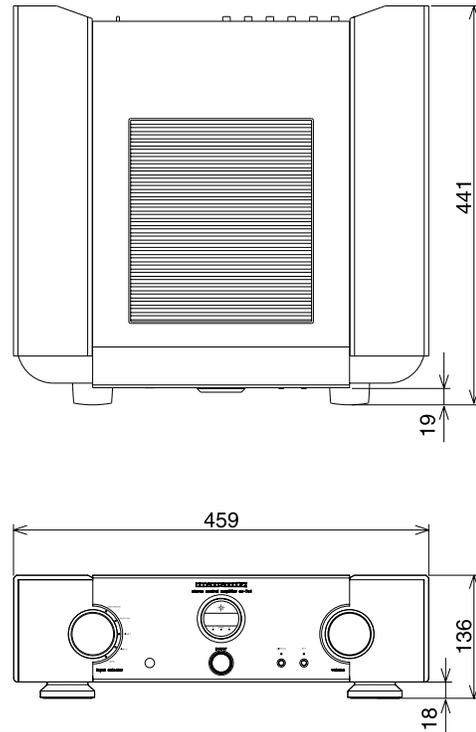
8. Specification

■ Specification

Maximum output voltage (20Hz-20kHz).... 13.5V (BALANCED)
13.5V (UNBALANCED)
Total harmonic distortion (20Hz-20kHz)0.0015% (BALANCED)
0.003% (UNBALANCED)
Frequency response (+0/-3dB) .... 3Hz–150kHz (BALANCED)
3Hz–150kHz (UNBALANCED)
Input sensitivity/Input impedance .... 420mV/20kΩ (BALANCED)
420mV/20kΩ (UNBALANCED)
Output impedance .... 220Ω (BALANCED)
220Ω (UNBALANCED)
S/N (IHF-A) .... 103dB (BALANCED)
105dB (UNBALANCED)
Channel separation (20kHz) .... 100dB (BALANCED)
100dB (UNBALANCED)
Volume adjustment range .... -∞, -100–0dB (0.5dB STEP)
Trim level adjustment range .... ±6dB (0.5dB STEP)
Attenuator setting level .... -20, -40, -60, -∞dB
Supply voltage (SC7S1/N1G) .... AC 230 V 50Hz
(SC7S1/U1G) .... AC 120 V 60Hz
Power consumption (SC7S1/N1G) .... 22W (0.1 A)
(SC7S1/U1G) .... 22W (0.2 A)
Dimensions .... W 459mm
H 136mm
D 441mm
Weight 21kg

* All specifications, dimensions and weights are subject to change without notice.

■ Dimensions   Unit: mm

9. Block diagram
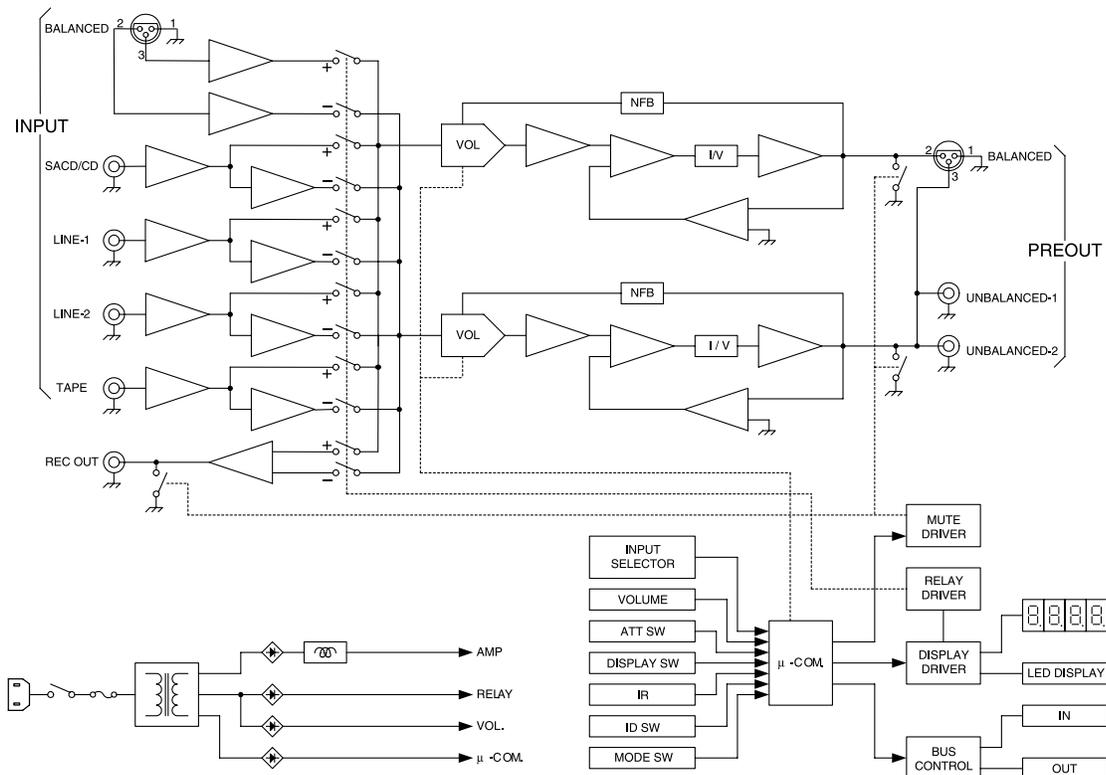
10. Trouble shooting

Should faults occur, in many cases it is not necessary to consult your dealer or a Marantz technical service department. On the basis of the following checks you will be able to rectify a number of faults yourself without difficulty. If the fault cannot be remedied after the following checks, please consult your dealer or nearest Marantz service agent.

The unit does not turn ON

1. Is the power cable securely connected to both the connection terminal of this unit and an AC outlet?

Sound is not coming from the speakers

1. Has the wrong input source been selected with the INPUT SELECTOR on the front panel?
2. Is the ATTENUATOR feature set to -∞ and has it been engaged?
3. Is the SYNC indicator on the front panel lit? Has the wrong ID No. been set? Is the remote cable wrongly connected?
4. Are connections cables correctly connected between the unit and player or power amplifier?
5. Is the power amplifier or input source wrongly set?
6. Are speaker cables properly connected between the power amplifier and the speaker system?
7. Are you using the player in the wrong way?

Stereo sound is not coming from the speakers

1. Is the MODE switch on the rear panel set to "BI-AMP"?

■ About Error Codes

If any of the error codes shown in the below table appear on the display on the front panel while using multiple SC-7S1s, there is something wrong with either the ID No. setting or the remote cable connection.
In such case, shut OFF power to the power amplifier, then shut OFF power to all SC-7S1s and check the ID No. setting and remote cable connection as explained in the What to do column below.

	Error code	Meaning	What to do
1	E02	ID No. 2 has been set for multiple units.	Set the ID No. switch so that multiple units do not share the same ID No.
2	E03	ID No. 3 has been set for multiple units.	
3	E04	ID No. 4 has been set for multiple units.	
4	E05	ID No. 5 has been set for multiple units.	
5	E06	ID No. 6 has been set for multiple units.	
6	E11	Communication is not possible between ID No. 1 (master) and ID Nos. 2 ~ 6 (slaves).	Is power to ID No. 1 ON? Check the IN/OUT connections of the remote cable and properly connect as necessary.
7	E12	ID No. 1 (master) has been set for multiple units.	Set the ID No. switch so that multiple units do not share the same ID No.

11. Maintenance

The section describes the care and maintenance tasks that must be performed to optimize the operation of your Marantz equipment.

● 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, scourging 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 gets dirty, wipe the external surfaces with a soft, lint-free cloth.
If the equipment becomes heavily soiled:

• dilute some liquid soap in water, in a ratio of one part detergent to six parts water.
• dip a soft, lint free cloth in the solution and wring it until 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 your Marantz Equipment. 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 behavior.

WARRANTY

For warranty information, contact your local Marantz distributor.

RETAIN YOUR PURCHASE RECEIPT

Your purchase receipt is your permanent record of a valuable purchase. It should be kept in a safe place to be referred to as necessary for insurance purposes or when corresponding with Marantz.

IMPORTANT

When seeking warranty service, it is the responsibility of the consumer to establish proof and date of purchase. Your purchase receipt or invoice is adequate for such proof.

FOR U.K. ONLY

This undertaking is in addition to a consumer's statutory rights and does not affect those rights in any way.

CE MARKING

CE   The SC7S1/N1G is in conformity with the EMC directive and low-voltage directive.

WARNINGS

– Do not expose the equipment to rain or moisture.

– Do not remove the cover from the equipment.

– Do not insert anything into the equipment through the ventilation holes.

– Do not handle the mains lead with wet hands.

– Do not cover the ventilation with any items such as tablecloths, newspapers, curtains, etc.

– No naked flame sources, such as lighted candles, should be placed on the equipment.

– 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 place anything about 1 meter above the top panel.

– Make a space of about 0.2 meter around the unit.