marantz®

Model PM-11S1 User Guide

Integrated Amplifier



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



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



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



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

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 ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPON-DANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

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.
- 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 manufacture'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.
- To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.
- When the switch is in the OFF position, the apparatus isn't completely switched-off from the MAINS.

CONTENTS

FEATURES	1
BEFORE USE	2
BEFORE MAKING CONNECTIONS	3
ABOUT THE BALANCED INPUT JACKS	3
WIRING SPEAKER CABLE	3
BI-WIRING CONNECTION	4
COMPLETE BI-AMP CONNECTION	4
SPEAKER POSITIONING FOR SUPER AUDIO MULTI-CHANNEL SOUND	4
CONNECTIONS	5
NAMES AND FUNCTIONS OF PARTS	8
FRONT PANEL	8
DISPLAY	9
REAR PANEL	10
RC-11PMS1 REMOTE CONTROLLER	11
BASIC OPERATION	13
PLAYBACK	13
RECORDING	14
HOW TO USE AND SET FEATURES	15
ABOUT FCBS	15
ABOUT THE BI-AMP MODE	15
ATTENUATION (ATT)	16
HOW TO OPERATE THE SIDE ILLUMINATION	16
TRIMMING	17
HOW TO ADJUST DISPLAY CONTRAST	19
HOW TO SET ID	19
TROUBLESHOOTING	20
OTHERS	21
SPECIFICATIONS & DIMENSIONAL DRAWINGS	22

FEATURES



The PM-11S1 is an integrated amplifier developed on the concepts of Marantz's SC-7S1 and MA-9S1 flagship amplifiers.

• HDAM®SA2

The HDAM®SA2 is an evolved version of the HDAM®SA incorporated into the SC-7S1 and MA-9S1. It drives the phono amplifier, balance buffer, line buffer, volume amplifier, voltage amplifier and power buffer that comprise the PM-11S1.

Input Amplifier

Current Feedback Phono Equalizer

The phono equalizer of the PM-11S1 supports MC/MM cartridges and incorporates the first-ever current feedback circuit used with a Marantz product. The newly designed circuitry employs both Marantz's previous HDAM® and the newly developed HDAM®SA2.

Current Feedback Balance Buffer

The PM-11S1 incorporates an HDAM®SA2-driven current feedback balance buffer that faithfully transfers signals from devices of quality balanced output such as super audio CD players and D/A converters.

Individual Input Buffer for Each Line Input Jack

Each the CD, LINE 1, LINE 2, RECORDER 1 and RECORDER 2 input jack has its own input buffer built on HDAM®SA2 technology. By providing each line with its own buffer amp, it is possible to prevent interference between input sources and thereby faithfully transfer signals from the input source.

Preamplifier

• Linear Control Volume

The PM-11S1 incorporates linear control volume that carry forward the design concepts of the SC-7S1. In combination with the WM8816 by Wolfson and the HDAM®SA2, these linear control varistors improve S/N ratio, enabling smooth control in ± 0.5 dB steps across a 0 - -100 dB range.

Tone Control Amplifier

The PM-11S1 incorporates an adjustable jack-type tone control amplifier for controlling bass and treble in 2 dB steps across a ± 8 dB range. The left and right channels can be separately adjusted from the remote controller.

Power Amplifier

• Dual Amplifier Structure

The PM-11S1 carries on the dual amplifier design concepts of the MA-9S1 with separate voltage and power amplifiers. With this dual amp structure, the power buffer powerfully drives the speakers whereby shutting out the effects of return current from the speakers. The voltage amplifier drives the power buffer with ultra low distortion.

Power

Choke Input Power Supply

The PM-11S1 incorporates a choke input power circuit built with a high capacity smoothing capacitor in order to thoroughly eliminate high frequency noise from the rectifier circuit and external sources. It delivers a distortion-free power supply to the input amplifier and preamplifier.

Functions

Bi-Amp Mode

The complete bi-amp connection proposed by Marantz with the SC-7S1 and MA-9S1 reproduces a sound environment never before experienced. This same bi-amp connection has been made possible with the PM-11S1. Two PM-11S1s are connected by FCBS in a bi-amp mode that enables each to work as a monaural integrated amplifier.

Floating Control Bus System

A Floating Control Bus System (FCBS) enables the user to connect up to four PM-11S1s, making possible a diversity of applications with complete bi-amp and multiple channel connections. Moreover, a ground loop is not formed between multiple connected PM-11S1s, therefore sound quality is not adversely affected.

Display

The PM-11S1 adopts an LCD to display input source and volume level. Compared to other types of display panels, an LCD generates less drive noise and radiated noise, hence the effect on sound quality is minimal.

BEFORE USE

■ Equipment mains working setting

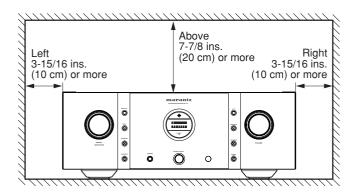
Your Marantz product has been prepared to comply with the household power and safety requirements that exist in your area.

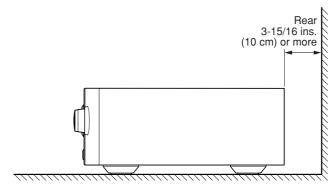
PM-11S1 can be powered by 120V AC only.

■ Do Not Locate in the Following Places

To ensure long-lasting use, do not locate the PM-11S1 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
- Radiated heat is blocked such as in cramped audio racks.
 To ensure proper heat radiation, ensure the below clearance from walls and other equipment.





■ Keep Objects Off

Keep objects off the PM-11S1. Blocking the vent can result in accident and damage.

Do Not Touch Hot Spots During and Immediately After Use

During and immediately after use, the PM-11S1 is hot in areas other than the controls and rear panel connection jacks. Do not touch hot spots and especially the top panel. Contact with hot areas can cause burns.

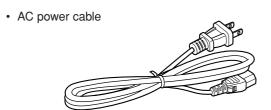
■ Battery Handling

Improper use of dry cell batteries can result in electrolyte leaks, rupture and corrosion. Read the following precautions before use.

- If not planning to use the remote controller for an extended period of 1 month or more, remove the batteries.
- · Do not mix old batteries with new batteries.
- Load batteries in the proper direction indicated on the remote controller.
- Do not mix batteries of differing type. Even batteries of the same shape and size can have differing voltages.
- If batteries leak, wipe the case clean of any adhering electrolyte and replace the old batteries with new batteries.

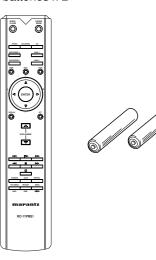
■ Accessories Check

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



The power cable included in the package can be used with the PM-11S1 only. It cannot be used with other equipment.

- RC-11PMS1 remote controller
- AAA batteries x 2

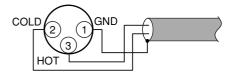


Instruction Manual (This manual)

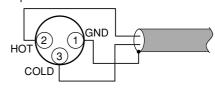
BEFORE MAKING CONNECTIONS

ABOUT THE BALANCED INPUT JACKS

- ① The PM-11S1 uses XLR connectors for the BALANCED INPUT jacks. XLR connectors are widely used with professional equipment because of the following features.
 - Incoming music signals are balanced, therefore they are little affected by external noise.
 - The detachable locking mechanism minimizes connector play and enhances connection reliability.
- ② There are two ways to connect the XLR connectors. 1.In the USA



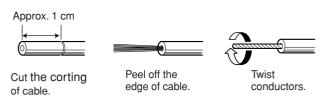
2. In Europe



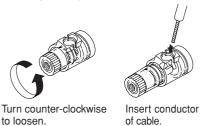
③ The PM-11S1 adopts the USA circuitry. If the PM-11S1 is connected via a balanced cable to a preamplifier or control amplifier of European circuitry, signal phases will be reversed. To correctly align signal phases, switch the ② and ③ pins of one of the XLR connectors.

WIRING SPEAKER CABLE

- · Be careful not to short circuit in wiring speaker cables.
- · Peel off the corting of speaker cable as shown below.



· Wiring with speaker cable.





· Wiring with "Y" style terminal



Turn counter-clockwise to loosen.



Insert conductor.



Turn clockwise to tighten.

Your speaker system must satisfy the below conditions. If it does not, the PM-11S1's protective circuit will trip, whereby preventing proper playback. In some cases, the amplifier and speakers may be damaged.

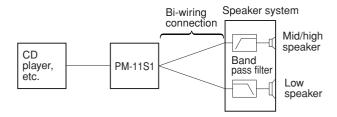
- If using 1 set of speakers, total speaker impedance must be 40 or more
- If using 2 sets of speakers, total speaker impedance must be 8Ω or more.

BEFORE MAKING CONNECTIONS

Here following are explained two types of connections that improve sound quality. The speakers in these explanations have low and mid/high input jacks that support a bi-amp connection. To determine whether or not your speakers support a bi-amp connection, check in the instruction manual that came with your speakers or contact the manufacturer.

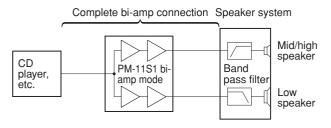
BI-WIRING CONNECTION

A bi-wiring connection separately connects the low and mid/high jacks of the speaker to the amplifier using separate speaker cables. Because separate cables are used for low and mid/high sounds, the return current generated in the low speaker causes little interference with the mid/high speaker. The PM-11S1 and speakers of Connection Example 1 use a bi-wiring connection, therefore also refer to that page for help.



COMPLETE BI-AMP CONNECTION

Proposed by Marantz, the complete bi-amp connection enhances the bi-wiring connection. With it, the low and mid/high amplifiers are separate and independent of the preamplifier, therefore interference between low and mid/high sounds is reduced to a minimum. As a result, a wide sound environment can be reproduced. Connection Example 3 connects two PM-11S1s by FCBS in a complete bi-amp connection, therefore also refer to that page for help.



SPEAKER POSITIONING FOR SUPER AUDIO MULTI-CHANNEL SOUND

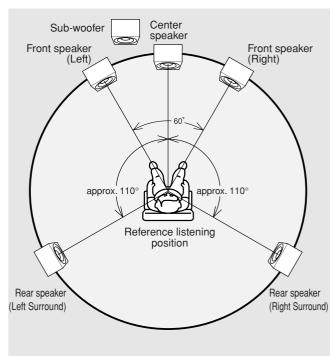
In order to enjoy Super Audio CD multi-channel sound with the best possible acoustics, it is recommended to position speakers as specified in ITU-R BS.775-1 of the International Telecommunication Union (ITU). Super Audio CD multi-channel discs are recorded and mixed so as to achieve the optimum effect with a speaker system laid out as specified in ITU-R BS.775-1.

- With Super Audio CD multi-channel discs, the music signals are basically recorded using 5 channels (3 6 channels sometimes), but in some cases, LFE (for subwoofer) is recorded as a sixth channel. Each disc indicates how many channels have been recorded on it.
- The basic layout is 3 speakers in the front and 2 in the back since multi-channel discs usually have 5 channels. The 2 front, 1 center and 2 surround (rear) speakers should be set in a circle around the listening point as shown below. If using speakers of differing sizes, adjust volume balance from the amplifier.
- The location of the subwoofer in the figure is just for explanatory purposes. It can be located anywhere in the room.
 For connection and positioning instructions, see the instruction manual that came with the subwoofer.

■ ITU (International Telecommunication Union)

The ITU is a special organization of the United Nations. It consists of a number of organs, one of which is the Radio Broadcasting Section.

ITU-R BS in the recommendation which consists of standards relating to broadcasting (audio) operations, one of which is the ITU-R BS.775-1 which governs "multi-channel stereo sound systems."

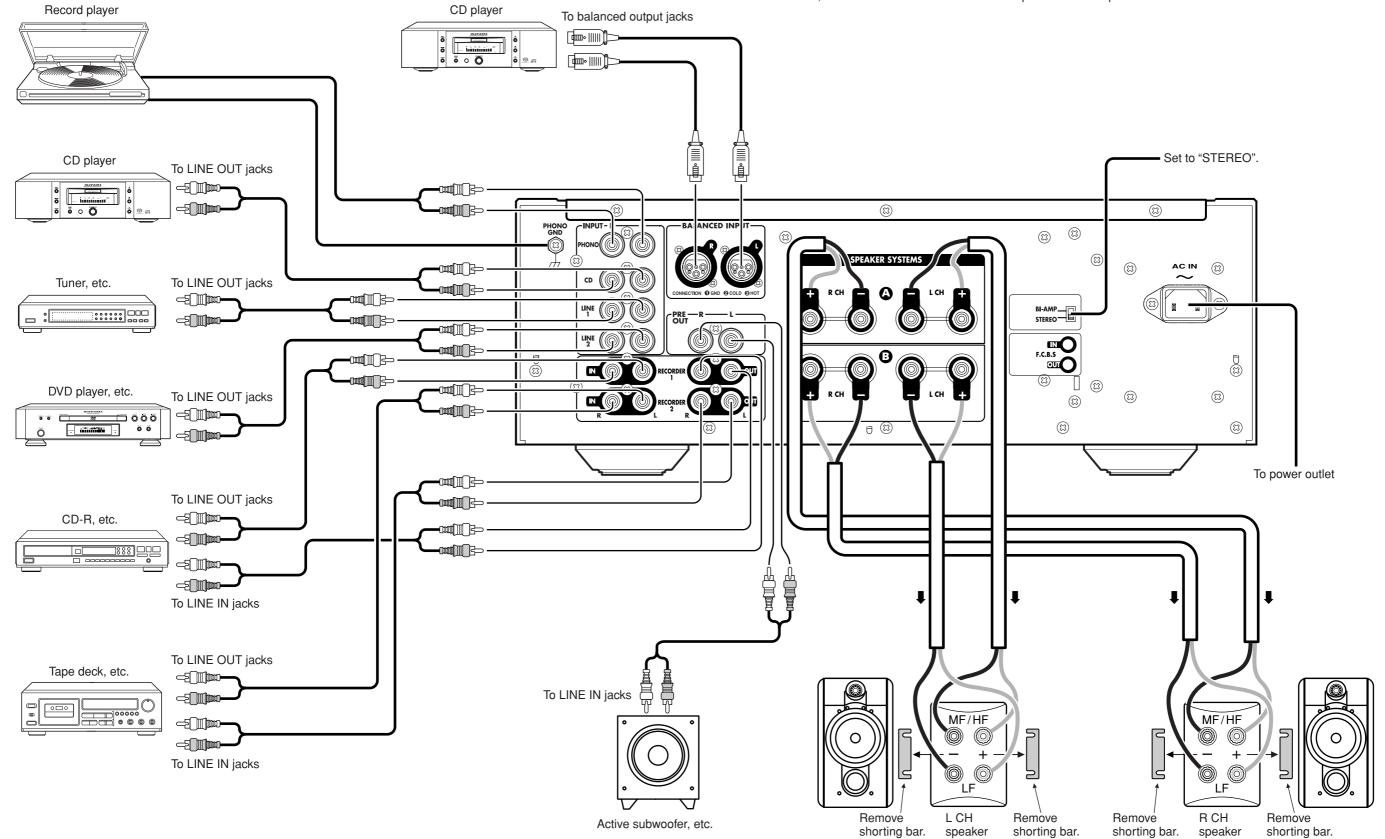


CONNECTIONS

Connection Example 1: Basic Connection for Normal Stereo Playback

Refer also to the instruction manuals of components to connect equipment correctly.

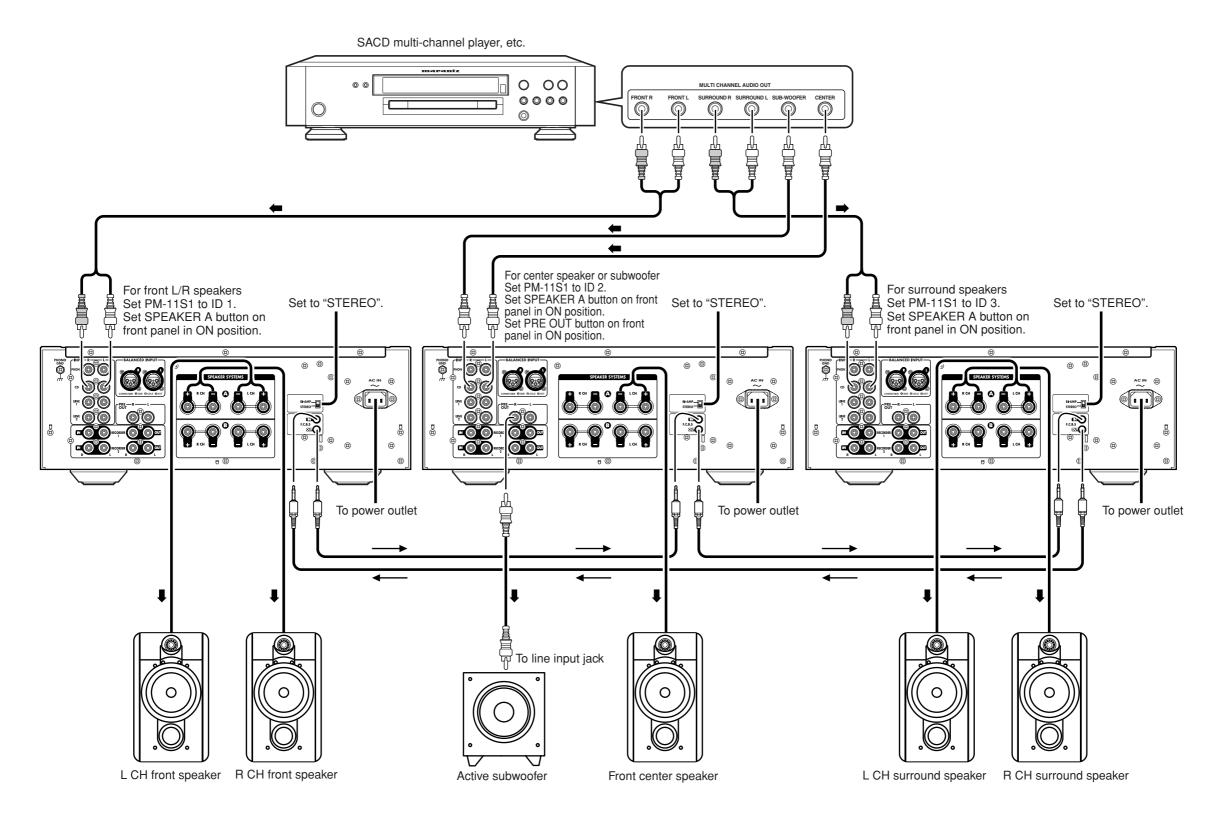
- Use a bi-wiring connection for speakers. Set the SPEAKER A and B buttons on the front panel in the ON position.
- If using speakers that do not support a bi-wiring connection, connect them to either the SPEAKER SYSTEM A or B terminals.
- If using an active subwoofer, set the PRE OUT button on the front panel in the ON position.
- To record, set the REC OUT button on the front panel in the ON position.



CONNECTIONS

Connection Example 2: Basic Connection for 5.1 Multi-Channel Playback Using 3 PM-11S1

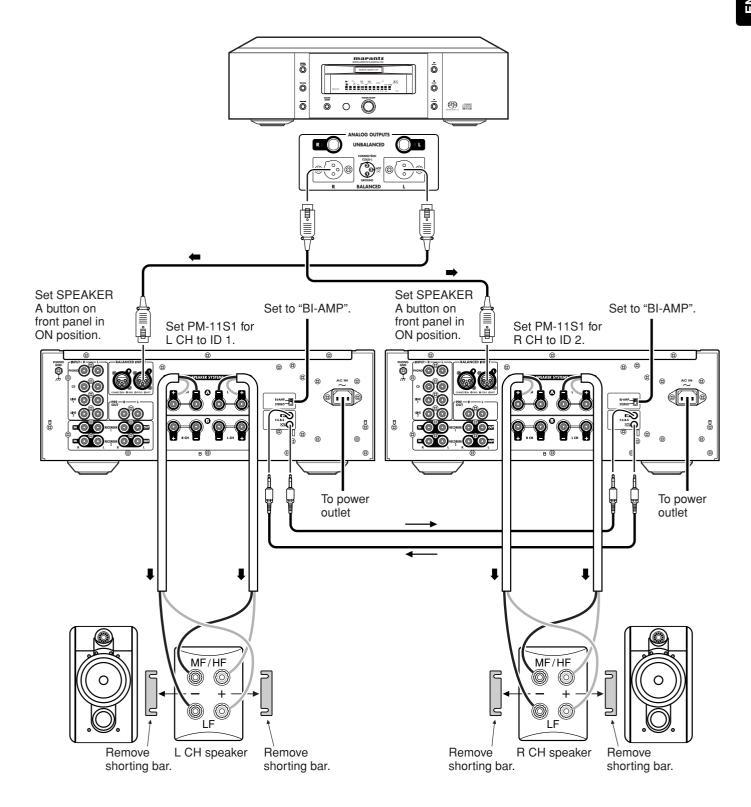
The three PM-11S1s are connected by FCBS. For the FCBS connection, prepare 3 portable audio connection cables with monaural \Leftrightarrow monaural miniplugs or stereo \Leftrightarrow stereo miniplugs as described "ABOUT FCBS" on pg. 15. Set the ID numbers for the PM-11S1 units as explained "HOW TO SET ID" on pg. 19. When the PM-11S1 of ID 1 is operated, those of ID 2 and ID 3 will operate in sync. If using an active subwoofer, see the instruction manual that came with the subwoofer for connection and positioning instructions.



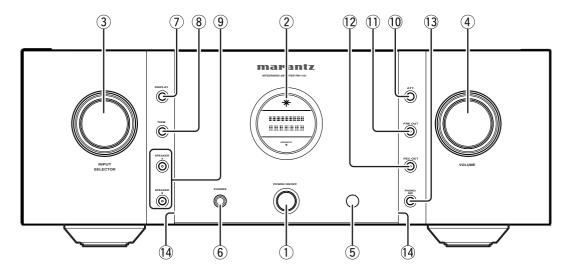
CONNECTIONS

Connection Example 3: Complete Bi-Amp Connection for Stereo Playback Using 2 PM-11S1

The speaker system must support a bi-amp connection, therefore to determine whether your speakers do or not, check in the instruction manual that came with your speakers or contact the manufacturer. The two PM-11S1s are connected by FCBS. For the FCBS connection, prepare 2 portable audio connection cables with monaural ⇔ monaural miniplugs or stereo ⇔ stereo miniplugs as described "ABOUT FCBS" on pg. 15. Set the ID numbers for the PM-11S1 units as explained "HOW TO SET ID" on pg. 19. When the PM-11S1 of ID 1 is operated, that of ID 2 will operate in sync.



FRONT PANEL



1) POWER ON/OFF Switch

This switch turns power to the PM-11S1 ON and OFF. When pressed, power is activated and the blue indicator on the display ② lights up. Approximately 8 seconds after power is activated, audio output is enabled. Pressing the switch again turns power OFF.

② Display

The display displays the selected input source, volume level and setting status.

③ INPUT SELECTOR Knob

This knob is for selecting the input source to use in play-back and recording. The selected input source is displayed on the display ②.

4 VOLUME Knob

This knob is for setting the volume. The volume level is displayed on the display ②. Turning the knob clockwise increases the volume, while turning it counterclockwise decreases the volume. When turned slowly, the volume can be fine-adjusted in 0.5 dB steps, whereas when turned rapidly, volume level changes greatly.

5 Infrared Receptor Window

This is the receptor of control signals sent from the included RC-11PMS1 remote controller. Point the remote controller towards this window to properly send signals.

6 PHONES Jack

This jack is for connecting headphones with a standard stereo plug. To listen with headphones, turn speaker output OFF by setting the SPEAKER A and B buttons in the OFF position.

7 DISPLAY Button

This button turns the display and side illumination ON and OFF. The button performs two functions depending on how long it is pressed.

If pressed and held for 3 seconds or longer:

Turns the side illumination (4) on both sides of the display ON and OFF. This operation sets the always-ON mode of the side illumination, therefore once the side illumination is turned OFF, it stays OFF and does not light even if power is shut OFF and reactivated. To turn the side illumination ON again, press and hold the DISPLAY button for 3 seconds or longer.

If pressed and held for less than 3 seconds:

Turns the display ON and OFF. When the always-ON mode is engaged for the side illumination, the side illumination turns ON and OFF in synch with the display.

If the display is out and the VOLUME knob or other control is operated, the display lights up. It will automatically go out 3 seconds after the operation has been completed. For instructions on how to operate the side illumination, see "HOW TO OPERATE THE SIDE ILLUMINATION" on pg. 16.

(8) TONE Button

This button turns the bass and treble tone control ON and OFF. When tone control is ON, the center of the button is lit a blue color. For instructions on how to adjust bass and treble, see "How to Trim Bass" and "How to Trim Treble" on pg. 18.

9 SPEAKER A/B Buttons

These buttons turn the speaker output to the speakers connected to the SPEAKER SYSTEM A/B terminals on the rear panel ON and OFF. When speaker output is ON, the center of the button is lit a blue color. To listen with headphones, turn speaker output OFF.

10 ATT Button

This button attenuates volume with one press of the button. When pressed, "ATT" flashes on the display and the volume is reduced. If pressed again, the mode is canceled and the original volume level is restored. Attenuation level is set to -20 dB when the PM-11S1 is shipped from the factory, but it can be set to either -40 dB or $-\infty$ (mute). For instructions on how to set attenuation level, see "**How to Set Attenuation Level**" on pg. 16.

(11) PRE OUT Button

This button turns output from the PRE OUT jack on the rear panel ON and OFF. When output is ON, the center of the button is lit a blue color.

12 REC OUT Button

This button turns the signals output from the RECORDER 1 and 2 OUT jacks on the rear panel ON and OFF. When output is ON, the center of the button is lit a blue color. For instructions on how to record, see "RECORDING" on pg.

When RECORDER 1 is selected as the input source, signals are not output to the RECORDER 1 OUT jack. The same goes for the RECORDER 2 OUT jack when RE-CORDER 2 is selected as the input source.

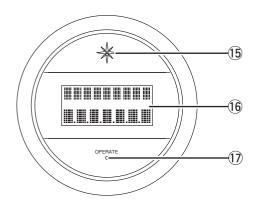
13 PHONO MC Button

This button switches the phono equalizer between MC and MM. When MC is set, the center of the button is lit a blue color. Set the phono equalizer amplifier according to the type of cartridge you use.

(14) Side Illumination

The side illumination casts a blue light over switches and buttons. It can be turned ON and OFF from the DISPLAY button. For instructions on how to operate the side illumination, see "HOW TO OPERATE THE SIDE ILLUMINA-**TION**" on pg. 16.

DISPLAY

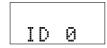


15 Power Indicator

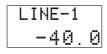
This indicator is lit a blue color while power to the PM-11S1 is ON.

16 Display Panel

Approximately 3 seconds after power to the PM-11S1 is activated, the ID set for the PM-11S1 is displayed here.

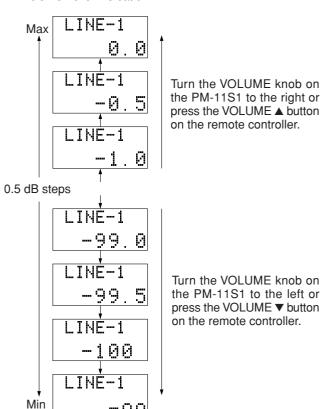


After that, the top line displays the input source selected with either the IN-PUT SELECTOR knob or the remote controller, while the bottom line displays the volume level set with the VOLUME knob or the remote control-



ler. When the PM-11S1 I is first activated, the attenuation level (dB) is displayed for the initial volume level.

Volume Level Indication



The display panel also displays left-right level balance and tone control trimming level. For instructions on how to adjust bass and treble, see "How to Trim Bass" and "How to Trim Treble" on pg. 18.

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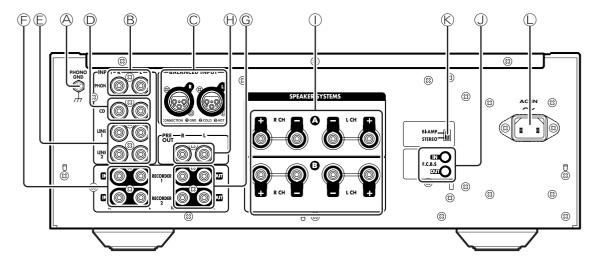
The display panel also displays messages in response to PM-11S1 operation.

17 OPERATE Indicator

This indicator indicates the operating status of the PM-11S1. When the ID is set to "0" for standalone operation, it is lit a red color. When multiple PM-11S1s are connected by FCBS, only the OPERATE indicator of the master PM-11S1 (ID 1) lights a red color. Slave PM-11S1s whose OPERATE indicator does not light a red color cannot be used to operate other units in sync. For more information on the FCBS, see "ABOUT FCBS" on pg. 15.

Also, the OPERATE indicator flashes if a protective circuit trips. For troubleshooting procedures, see "TROUBLE-SHOOTING" on pg. 20.

REAR PANEL



A PHONO GND Terminal

Connect the grounding wire from an analog record player here.

B PHONO Input Jacks

These jacks are for connecting to an analog record player. Both MC and MM cartridges can be used, therefore set the PHONO MC button on the front panel according to the type of cartridge you are using.

In the bi-amp mode, the R channel jack cannot be used.

© BALANCED INPUT Jacks

These jacks are for connecting to the balanced output jacks of a CD player or D/A converter. With the BALANCED IN-PUT jacks of the PM-11S1, pin 1 is GND, pin 2 is Cold and pin 3 is Hot.

In the bi-amp mode, the R channel jack cannot be used.

D CD Input Jacks

These jacks are for connecting to the output jacks of a Super Audio CD player, CD player, etc.

In the bi-amp mode, the R channel jack cannot be used.

E LINE 1/2 Input Jacks

These jacks are for connecting to the output jacks of a tuner, DVD player, etc.

In the bi-amp mode, the R channel jack cannot be used.

F RECORDER 1/2 IN Jacks

These jacks are for connecting to the output jacks of a CD-R, MD deck, tape deck, etc.

In the bi-amp mode, the R channel jack cannot be used.

© RECORDER 1/2 OUT Jacks

These jacks are for connecting to the recording input jacks of a CD-R, MD deck, tape deck, etc. Output signals can be turned ON/OFF from the REC OUT button on the front panel.

In the bi-amp mode, the signals input to the L channel are output to both output jacks.

(H) PREOUT Jacks

These jacks are for connecting to the input jacks of another main amplifier or active subwoofer. Output signals can be turned ON/OFF from the PRE OUT button on the front panel.

In the bi-amp mode, the signals input to the L channel are output to both output jacks.

SPEAKER SYSTEMS Output Terminals

You can connect 2 speaker systems to the PM-11S1. Speaker output can be turned ON/OFF from the SPEAKER A and B buttons on the front panel.

In the bi-amp mode, the signals input to the L channel are output to both output terminals.

J F.C.B.S. IN/OUT Jacks

You can connect and synchronize up to four PM-11S1s in a complete bi-amp connection or multi-channel connection. A stereo miniplug or monaural miniplug cable can be used for the connections. For instructions on use and connections, see "ABOUT FCBS" on pg. 15.

(K) Operating Mode Switch

This switch is for setting the operating mode of the PM-11S1.

STEREO: Set to use the PM-11S1 as an ordinary 2-channel stereo amplifier.

BI-AMP: Set to use two PM-11S1s in a complete bi-amp connection with FCBS. For more information on the bi-amp mode, see "ABOUT THE BI-AMP MODE" on pg. 15.

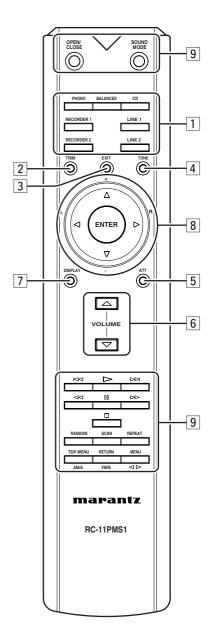
(L) AC IN Socket

Connect one end of the included power cable here and the other end to a power outlet. The PM-11S1 can be powered by 120V AC only.

RC-11PMS1 REMOTE CONTROLLER

This remote controller can control the PM-11S1 and Marantz Super Audio CD players and DVD players that have a remote control receptor. The operations possible by remote control may differ with each component, therefore see the instruction manual that came with the component.

Remote controller buttons are laid out as shown below.



1 Input Selector Buttons

These buttons are for selecting the input source to use in playback.

2 TRIM Button

This button starts trimming. When multiple PM-11S1s are connected by FCBS, this button selects the amplifier with which to perform trimming.

3 EXIT Button

This button ends the trimming mode when trimming is finished.

4 TONE Button

This button turns tone (bass /treble) control ON and OFF.

5 ATT Button

This button attenuates volume level with one press.

6 Volume Buttons

- ▲ : This button increases the volume level.
- ▼ : This button decreases the volume level.

7 DISPLAY Button

This button turns the display ON and OFF.

8 Cursor Buttons

In the Trimming Mode

These buttons are for selecting the channel to trim and the trimming level.

ENTER: This button selects the trim mode (LEVEL. BASS or TREBLE).

- \blacktriangleright /R : This button selects the R channel for trimming.
- ◀ /L : This button selects the L channel for trimming.
- \blacktriangle /+ : This button increases the trimming level.
- ▼ /- : This button decreases the trimming level.

Other Than the Trimming Mode

▶, ◀, ♠, ▼ and ENTER: These buttons are for selecting settings items on menu displays of Marantz DVD players, etc. For operations of supported Marantz products, see the tables on the following page and the instruction manual of the Marantz component.

Component Operating Buttons

These buttons are for operating Marantz Super Audio CD players, DVD players, etc. For operations of supported Marantz products, see the tables on the following page and the instruction manual of the Marantz component.

The buttons in groups **8** and **9** are for operating Marantz products other than the PM-11S1, such as Super Audio CD players and DVD players. The function of each button changes to match the component selected as the input source from the input selector buttons **1**.

When the CD and BALANCED buttons are pressed, the buttons in groups ⓐ and ⑨ function as indicated in the below table. These buttons can be used only when a Marantz Super Audio CD player is connected to the CD input or BALANCED INPUT jacks.

Button	Function
OPEN/CLOSE	Open/Closes disc tray.
SOUND MODE	Selects Super Audio CD sound mode.
300ND WODE	Selects Super Audio CD/CD.
•	Play
I ■■	Track skip (Returns to track beginning/previous track.)
▶▶	Track skip (Advances to next track.)
44	Rewind search
▶▶	Forward search
11	Pause
•	Stop
RANDAM	Random play
SCAN	AMS (Automatic Music Scan) play
REPEAT	Repeat play
TOP MENU/AM/A	Not available for use
RETURN/FM/B	Not available for use
MENU ◀ ▶	Sets quick replay.
ENTER	Starts quick replay.
A /+	Not available for use
▼ /-	Not available for use
⋖ /L	Not available for use
►/R	Not available for use

When the LINE 2 button is pressed, the buttons in groups and 9 function as indicated in the below table. These buttons can be used only when a Marantz DVD player is connected to the LINE 2 input jacks.

Button	Function
OPEN/CLOSE	Open/Closes disc tray.
SOUND MODE	Changes sound mode.
>	Play
Idd	Track skip (Returns to track beginning/previous track.)
▶ ▶I	Track skip (Advances to next track.)
◆ ◆	Rewind search
>>	Forward search
II	Pause
•	Stop
RANDAM	Random play
SCAN	Selects search mode.
REPEAT	Repeat play
TOP MENU/AM/A	Displays top menu.
RETURN/FM/B	Returns to previous menu
MENU ∢ ▶	Displays menu screen.
ENTER	Sets selected item.
A /+	Moves cursor upward.
▼ /-	Moves cursor downward.
⋖ /L	Moves cursor to left.
►/R	Moves cursor to right.

■ For use of Remote controller

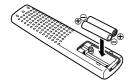
Loading batteries

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

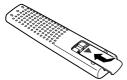
1. Remove the battery cover which is found on the back side of the remote control unit.



2. Load the two new size "AAA" batteries inside the battery compartment while taking care to align their polarities correctly with the polarity markings (\bigoplus with \bigoplus and \bigoplus with \bigoplus).

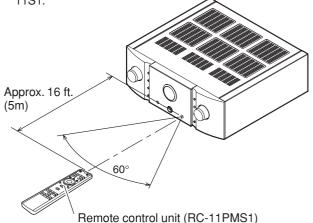


3. Push the cover on the back side in the direction of the arrow to close.



■ Operatable range of Remote controller

Operate the remote control unit (RC-11PMS1) within a distance of approx. 16 ft. (5 m) from the infrared signal reception window (remote sensor) on the front of the PM-11S1.



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.

BASIC OPERATION

PLAYBACK

To explain how to play back input sources, representative examples are given with an Super Audio CD player and analog record player. Before starting either procedure, check the component is correctly connected to the PM-11S1.

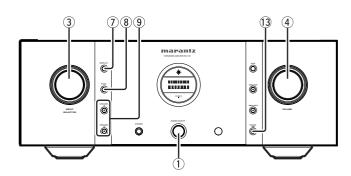
Disc Playback on an Super Audio CD Player

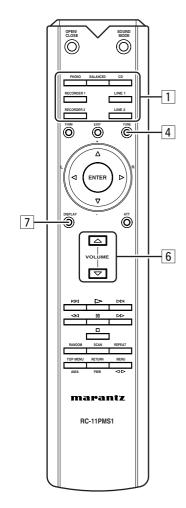
- **1.** Press the power ON/OFF switch of the Super Audio CD player to activate power to it.
- 2. Press the POWER ON/OFF switch ① of the PM-11S1 to activate power to it. Approximately 8 seconds after power has been activated, the muting turns OFF and audio output is enabled. When using multiple PM-11S1s connected by FCBS, turn power ON in the order of lowest to highest ID number, starting from ID 1.
- 3. Select the input source from the INPUT SELECTOR knob
 3 on the PM-11S1 or the input selector buttons 1 of the remote controller.
- **4.** To use the speakers connected to the SPEAKER A terminals, press the SPEAKER A button ⑨ on the PM-11S1.
- **5.** Load a disc into the Super Audio CD player and press the play button to start playback.
- 6. Adjust the volume level from the VOLUME knob ④ on the PM-11S1 or the VOLUME ▲/▼ buttons ⑥ of the remote controller.
- 7. Adjust bass/treble as desired from the TONE button ® on the PM-11S1 or the TONE button 4 of the remote controller. For instructions on how to adjust bass and treble, see "How to Trim Bass" and "How to Trim Treble" on pg. 18.
- **8.** You can turn the display and side illumination ON/OFF as suited for the room environment. Press the DISPLAY button \bigcirc on the PM-11S1 or the DISPLAY button \bigcirc of the remote controller.

■ Disc Playback on an Analog Record Player

- 1. Press the POWER ON/OFF switch ① of the PM-11S1 to activate power to it. Approximately 8 seconds after power has been activated, the muting turns OFF and audio output is enabled. When using multiple PM-11S1s connected by FCBS, turn power ON in the order of lowest to highest ID number, starting from ID 1.
- 2. Select "PHONO" as the input source from the INPUT SELECTOR knob ③ on the PM-11S1 or the input selector buttons ① of the remote controller. To prevent unexpected accidents, it is recommended to set the volume level to (mute) by turning the VOLUME knob ④ until muting the volume level.
- **3.** Set the PHONO MC button (13) on the PM-11S1 to MC or MM according to the cartridge you are using.
- **4.** To use the speakers connected to the SPEAKER A terminals, press the SPEAKER A button ⑨ on the PM-11S1.

- 5. Set a record on the analog record player and play it.
- 6. Adjust the volume level from the VOLUME knob ④ on the PM-11S1 or the VOLUME ▲/▼ buttons ⑥ of the remote controller.
- 7. Adjust bass/treble as desired from the TONE button ® on the PM-11S1 or the TONE button 4 of the remote controller. For instructions on how to adjust bass and treble, see "How to Trim Bass" and "How to Trim Treble" on pg. 18.
- 8. You can turn the display and side illumination ON/OFF as suited for the room environment. Press the DISPLAY button ① on the PM-11S1 or the DISPLAY button ① of the remote controller.





BASIC OPERATION

RECORDING

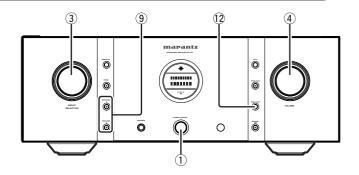
This example explains how to record from an input source such as an Super Audio CD player to a recording device such as a CD-R.

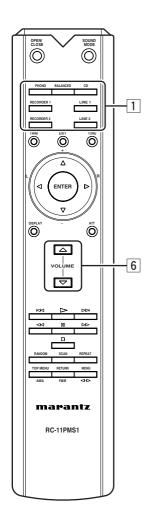
- **1.** Press the power ON/OFF switch of the Super Audio CD player and CD-R to activate power to both components.
- 2. Press the POWER ON/OFF switch ① of the PM-11S1 to activate power to it. Approximately 8 seconds after power has been activated, the muting turns OFF and audio output is enabled. When using multiple PM-11S1s connected by FCBS, turn power ON in the order of lowest to highest ID number, starting from ID 1.
- 3. Select the input source from the INPUT SELECTOR knob

 ③ on the PM-11S1 or the input selector buttons ① of the
 remote controller. And, press the REC OUT button ② to
 turn the recording output of RECORDER 1 and 2 ON.
- **4.** Load a playback disc into the Super Audio CD player and a recording disc into the CD-R.
- **5.** Start playback on the Super Audio CD player. Then, start recording on the CD-R.
- **6.** To use the speakers connected to the SPEAKER A terminals, press the SPEAKER A button (9) on the PM-11S1.
- 7. Adjust the volume level from the VOLUME knob ④ on the PM-11S1 or the VOLUME ▲/▼ buttons ⑥ of the remote controller.

Note

When RECORDER 1 is selected as the input source, signals are not output to the RECORDER 1 OUT jack. The same goes for the RECORDER 2 OUT jack when RECORDER 2 is selected as the input source.





ABOUT FCBS

FCBS is short for Floating Control Bus System. It is a communication system that connects up to four PM-11S1s over a dedicated bus line so as to enable synchronized operations amongst them via 2-way data communications.

The FCBS connections can be made with either of the below two types of portable audio connection cable. Prepare the number of connection cables for the number of PM-11S1s to connect.

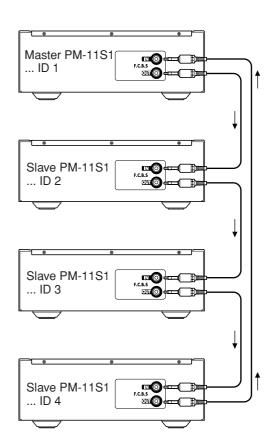
- Connection cable with monaural ⇔ monaural miniplugs
- Connection cable with stereo ⇔ stereo miniplugs

Resistor connection cables are sold commercially, but they cannot be used with the PM-11S1.

The below figure is an example of four PM-11S1s connected by FCBS. The top PM-11S1 is the master unit of ID 1 and controls the three slave units of IDs 2 - 4. When the master PM-11S1 is operated, the input source, volume level, ATT feature, display and tone control ON/OFF feature of slave PM-11S1s are interlocked to the master unit.

This function can be applied to various usages such as complete-bi-amp with 2 PM-11S1s, and 5.1ch multi-channel with 3 PM-11S1s.

To turn power to multiple FCBS-connected PM-11S1s ON/ OFF, activate power in the order of lowest to highest ID number and deactivate power in order of highest to lowest ID number.



ABOUT THE BI-AMP MODE

The PM-11S1 is equipped with a bi-amp mode to enable a complete bi-amp connection using two PM-11S1s. This complete bi-amp connection is a high-end technique for enhancing sound quality, proposed by Marantz. With it, the bi-amp supporting speaker system is separated from the preamplifiers that separately drive the low and high speakers. (For more information, see Connection Example 3.)



The bi-amp mode is engaged by setting the operating mode switch on the rear panel to "BI-AMP".

In the bi-amp mode, the signals input to the L channel are passed through the input buffer amplifier, split by the input selector and transferred to the left and right volume amplifiers. After that, the signals are sequentially sent to the left and right voltage amplifiers and the left and right power amplifiers, and ultimately output to the speaker output terminals. In the biamp mode, the R channel input jacks cannot be used.

The below figure shows example displays in the stereo and bi-map modes.



LINE-1 -40.0

Bi-amp mode

Note

Turn power to the PM-11S1 OFF before changing the operating mode switch setting. Turning the power ON again activates the new setting.

ATTENUATION (ATT)

Attenuation is a one-touch feature for reducing volume level. When the ATT button on either the PM-11S1 or the remote controller is pressed, the volume level is attenuated. When the PM-11S1 is shipped from the factory, the attenuation level is set to -20 dB, but it can be set to -20 dB, -40 dB or $-\infty$.

1. When the ATT button on either the PM-11S1 or the remote controller is pressed, "ATT" flashes on the display and the volume level is reduced. When the ATT button is pressed again or the volume is increased/decreased from the controls, the mode is canceled and the original volume level is restored.

LINE-1 ATT

2. When the volume level is at -∞ (muted) and the ATT button is pressed, the below display appears for about 3 seconds and attenuation is not applied.

LINE-1 MIN

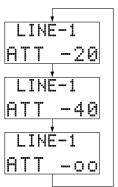
■ How to Set Attenuation Level

Attenuation level cannot be set from the remote controller.

1. Press and hold the ATT button on the PM-11S1 for 2 seconds or longer.

The attenuation level will appear on the display.

2. Set the attenuation level. The setting changes with each press of the ATT button on the PM-11S1.

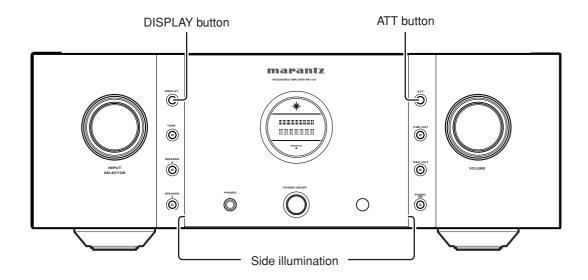


3. When the desired attenuation level setting appears on the display, leave it unchanged for 2 seconds or longer to enter the setting. Once entered, the display returns to the volume level indication.

HOW TO OPERATE THE SIDE ILLUMINATION

The side illumination has an always-ON mode and an always-OFF mode. In the always-ON mode, the side illumination turns ON/OFF in sync with the display.

- With the side illumination lit, press and hold the DISPLAY button for 3 seconds or longer. The side illumination goes out and the always-OFF mode is engaged.
- 2. To cancel the always-OFF mode and turn the side illumination ON, press and hold the DISPLAY button for 3 seconds or longer.



TRIMMING

There are three trimming modes.

- LEVEL trimming that adjusts the volume level on left and right channels
- BASS trimming that adjusts the bass on left and right channels
- TREBLE trimming that adjusts the treble on left and right channels

Note

Trimming is performed from the remote controller.

TRIM: This button starts trimming. When multiple PM-11S1s are connected, this button selects the amplifier with which to perform trimming. In such case, trimming is performed in the order of the lowest to highest ID number.

EXIT: This button ends trimming.

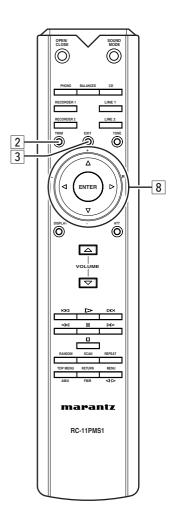
▲ : This button increases the trimming level.

▼ : This button decreases the trimming level.

▶ : This button selects the R channel for trimming.

■ : This button selects the L channel for trimming.

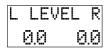
ENTER: This button selects the trim mode (LEVEL, BASS or TREBLE).



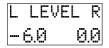
■ How to Trim Volume Level

The volume level of the left and right channels can be trimmed in 0.5 dB steps across a 0.0 - -9.0 dB range. When the PM-11S1 is shipped from the factory, the volume level is set to 0.0 dB (maximum).

 Press the TRIM button once to access the LEVEL trimming mode.



2. The flashing "0.0" on the left indicates that trimming is activated for the left channel volume level. Press the ▲ and ▼ buttons to set the volume level of the left channel.



3. Press the ▶ button to set the right channel volume level. When the right side "0.0" starts flashing, trimming is activated for the right channel volume level. Press the ▲ and ▼ buttons to set the volume level of the right channel.

- **4.** To trim the volume level of the ID 2 (slave) PM-11S1, press the TRIM button again and set volume level as in steps 1 3. After that, pressing the TRIM button again allows you to trim volume level with ID 3 (slave) PM-11S1 and so forth.
- When finished with volume level trimming, press the EXIT button.

■ How to Trim Bass

The bass level of the left and right channels can be trimmed in 2 dB steps across a -8.0 - +8.0 dB range. When the PM-11S1 is shipped from the factory, the bass level is set to 0 dB. To trim the bass level, activate tone control by pressing the TONE button on either the PM-11S1 or the remote controller.

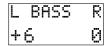
 Press the TRIM button once to access the LEVEL trimming mode.

L	L	E	V	Ε	L	R
	ØJ	3			0	0

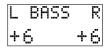
2. Press the ENTER button once to access the BASS trimming mode.



3. The flashing "0" on the left indicates that trimming is activated for the left channel bass level. Press the ▲ and ▼ buttons to set the bass level of the left channel.



4. Press the ▶ button to start the "0" on the right side flashing. When the right side "0" starts flashing, trimming is activated for the right channel bass level. Press the ▲ and ▼ buttons to set the bass level of the right channel.

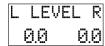


- **5.** To trim the bass level of the ID 2 (slave) PM-11S1, press the TRIM button again and set bass level as in steps 1 3. After that, pressing the TRIM button again allows you to trim bass level with ID 3 (slave) PM-11S1 and so forth.
- **6.** When finished with bass level trimming, press the EXIT button.

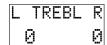
■ How to Trim Treble

The treble level of the left and right channels can be trimmed in 2 dB steps across a -8.0 - +8.0 dB range. When the PM-11S1 is shipped from the factory, the treble level is set to 0 dB. To trim the treble level, activate tone control by pressing the TONE button on either the PM-11S1 or the remote controller.

 Press the TRIM button once to access the LEVEL trimming mode.



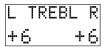
2. Press the ENTER button twice to access the TREBLE trimming mode.



3. The flashing "0" on the left indicates that trimming is activated for the left channel treble level. Press the ▲ and ▼ buttons to set the treble level of the left channel.



4. Press the ▶ button to start the "0" on the right side flashing. When the right side "0" starts flashing, trimming is activated for the right channel treble level. Press the ▲ and ▼ buttons to set the treble level of the right channel.

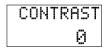


- **5.** To trim the treble level of the ID 2 (slave) PM-11S1, press the TRIM button again and set treble level as in steps 1 3. After that, pressing the TRIM button again allows you to trim treble level with ID 3 (slave) PM-11S1 and so forth.
- **6.** When finished with treble level trimming, press the EXIT button.

HOW TO ADJUST DISPLAY CONTRAST

An LCD is used as the PM-11S1's display. You can set the contrast in the +8 - -8 range. When the PM-11S1 is shipped from the factory, the contrast level is set to 0. The contrast adjustment mode is accessed by activating power from the POWER ON/OFF button while pressing and holding the DISPLAY button. Contrast is then set by turning the INPUT SELECTOR knob to the desired setting.

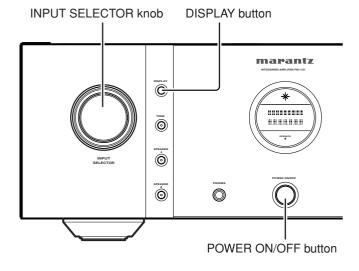
1. While pressing and holding the DISPLAY button, press the POWER ON/OFF button.



2. Turn the INPUT SELECTOR knob to the desired contrast setting.



3. When finished setting the display contrast, turn power to the PM-11S1 OFF. The setting is stored in memory and becomes active the next time power to the PM-11S1 I activated.

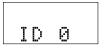


HOW TO SET ID

If using the PM-11S1 by itself as a stereo amplifier, set the ID to "0". When the PM-11S1 is shipped from the factory, the ID is set to "0".

When the ID is set to a number other than "0", the PM-11S1 cannot be used for standalone operation.

The ID number of the PM-11S1 appears on the display for about 3 seconds after power is activated.



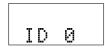
When multiple PM-11S1s are connected, a unique ID number must be set for each one in order to distinguish between them. The PM-11S1 that centrally controls the other PM-11S1s takes ID 1. The PM-11S1 with ID 1 is called the "master". The other PM-11S1s that synchronize with the master are called "slaves" and take IDs "2" - "4". ID numbers must not be the same for any two units.

Set ID numbers as follows.

1. While pressing and holding the DISPLAY button, press the POWER ON/OFF button.



2. Press the DISPLAY button once.



3. Turn the INPUT SELECTOR knob to the desired ID number.



When finished setting the ID number, turn power to the PM-11S1 OFF. The setting is stored in memory and becomes active the next time power to the PM-11S1 activated.

TROUBLESHOOTING

If you experience trouble with the PM-11S1, make the below checks before thinking the worst. Improper operation can cause the PM-11S1 to behave in a way that makes you think something is wrong with the equipment when actually not. If the trouble cannot be fixed after making the below checks, contact the place of purchase, your nearest Marantz dealer, our customer service center or our repair service center.

* Power does not turn ON.

- 1. Is the power cable securely plugged into a power outlet?
- 2. If the OPERATE indicator on the display is flashing a red color, a protective circuit has tripped. Shut power OFF, wait a few minutes and then reactivate the power.

* Nothing is heard from the speakers.

- 1. Aren't the SPEAKER A and B buttons on the front panel in the OFF position?
- 2. Isn't the attenuation feature (ATT) active?
- 3. Isn't there trouble in the input source selected from the INPUT SELECTOR knob on the front panel?
- 4. Are you using the player (replaying device) correctly?
- 5. Are connection cables and speaker cables securely connected?
- 6. Volume may have been muted by a protective circuit that tripped. Try adjusting the volume level again.
- 7. If an error message is displayed, correctly set the ID number as indicated in the table under "Error Messages".

* Volume level differs between left and right channels.

Volume, bass and treble level may be trimmed differently for the left and right channels. Try trimming again.

* Stereo sound is not heard from the speakers.

The operating mode switch on the rear panel may be set to "BI-AMP". Shut power OFF, set the switch to "STEREO" and then reactive the power. Power must be activated after the operating mode switch is set for the setting to be active.

* Record player audio is not heard or contains a lot of noise.

- 1. Is the PHONO MC button on the front panel set to the type of cartridge you are using?
- 2. Are connection cables securely connected?
- 3. Is the grounding wire from the record player connected to the PHONO GND terminal?
- 4. Is the cartridge properly connected to the tone arm?

■ About Protective Circuits

The PM-11S1 is equipped with protective circuits to protect the amplifier circuits and speaker system against damage. If a protective circuit trips, the sound is instantly muted. In this case, either "PROTECT" flashes on the display or the display panel goes out and the OPERATE indicator on the display flashes a red color.

At Power ON

For about 8 seconds after power is activated, a protective circuit trips and mutes the sound to give amplifier circuits time to stabilize. Once the amplifier circuits stabilize, the protective circuit releases and audio is enabled.

• In the Event of Overcurrent

A protective circuit trips if current of a certain level is detected, which can happen if excessive signal flow is input to the amplifier or if the PM-11S1 is connected to a speaker system of less than 4 Ω impedance. A protective circuit can also trip if a speaker cable accidentally shorts. In these cases, "PROTECT" flashes on the display and, approximately 8 seconds later, the sound is automatically muted and the protective circuit is released. Therefore, readjust the volume level to resume normal use.

If overcurrent is detected because of trouble with the amplifier, the OPERATE indicator on the display flashes a red color and power shuts OFF.

If Strong Bass Signals Are Input

A protective circuit trips if bass signals of an excessive level are detected. In this case, "PROTECT" flashes on the display and, approximately 8 seconds later, the sound is automatically muted and the protective circuit is released. Readjust the volume level to resume normal use. If these strong bass signals continue or if excessive DC voltage is detected because of trouble with the amplifier, the OPERATE indicator on the display flashes a red color and power shuts OFF.

If the Power Amplifier Overheats

A protective circuit trips if the temperature of the main amplifier rises above a certain level, which can happen if excessive signal flow is continually input into the amplifier. Temperature can also exceed the trip level of the protective circuits if the vents on the top of the PM-11S1 are covered or if the PM-11S1 is installed on a cramped audio rack. In these cases, "PROTECT" flashes on the display and, when the temperature inside the unit lowers, the sound is automatically muted and the protective circuit is released. Readjust the volume level to resume normal use. If the temperature does not sufficiently lower within a certain amount of time after the protective circuit trips, the OPERATE indicator on the display flashes a red color and power shuts OFF.

In the Event of Amplifier Trouble

A protective circuit trips and automatically shuts OFF the power if abnormal voltage is detected in the power circuit for whatever reason. The same happens if the main fuse inside the amplifier blows. In these cases, the OPERATE indicator on the display flashes a red color.

TROUBLESHOOTING

■ Error Messages

When multiple PM-11S1s are connected by FCBS, the below error messages may appear on the display. In these cases, there is a problem with the ID number setting or remote cable connection. Check the ID numbers and remote cable as indicated in the below table. For details on how to set ID numbers, see "How to Set ID" on pg. 21.

	Error message	Meaning	What to do
1	ERROR 02	ID 2 is used with more than one amp.	
2	ERROR 03	ID 3 is used with more than one amp.	Set separate ID numbers for each amp.
3	ERROR 04	ID 4 is used with more than one amp.	
4	ERROR 11	Amps of IDs 2 - 4 cannot communicate with ID 1 amp.	If power to ID 1 amp is OFF, activate power. Check remote cable is properly connected.
5	ERROR 12	ID 1 amp cannot communicate with amps of IDs 2 - 4.	If ID 1 is used for more than one amp, properly set ID numbers. Check remote cable is properly connected.

OTHERS

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, benzine, insecticide or other volatile substances as these wil 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.



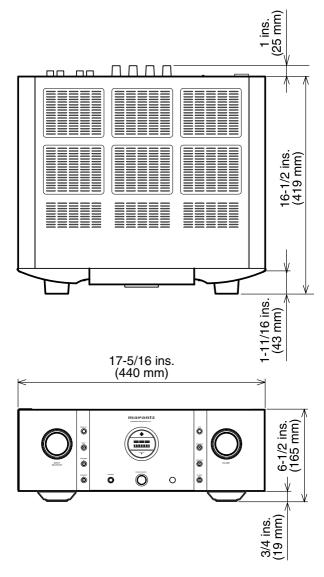
■ Repairs

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.

SPECIFICATIONS & DIMENSIONAL DRAWINGS

Power output (20 Hz – 20 kHz simultaneous drive of both channels)
Total frequency distortion (20Hz – 20kHz simultaneous drive
of both channels, 8Ω load)
Output band width (8 Ω load, 0.05%)
Frequency response (CD, 1W, 8Ω load) 5Hz ~ 120kHz±3dB
Dumping factor (8 Ω load, 20Hz – 20kHz)
Input sensitivity/Input impedance
PHONO (MC)
PHONO (MM)
BALANCED
CD/LINE 240mV/20kΩ
Output voltage/Output impedance
PRE OUT 1.9 V/220Ω
Maximum allowed PHONO input (1kHz)
MC12mV
MM130mV
RIAA deviation (20Hz ~ 20kHz) ±0.5dB
S/N (IHF-A, 1W, 8Ω load)
PHONO (MC)
PHONO (MM) 90dB (5mV input)
BALANCED 95dB (500mV input)
CD/LINE 96dB (500mV input)

Tone control
Bass (50Hz) ±8dB
Treble (20kHz) ±8dB
Power requirement AC 120V 60Hz
Power consumption
(UL6500) 380W
(4Ω, 200W x 2 output) 880W
Accessories
Remote controller 1
AAA batteries 2
Detachable AC power cable 1
Maximum outer dimensions (Amp)
Width 17-5/16 ins. (440mm)
Height 6-1/2 ins. (165mm)
Depth
Weight (Amp)57.2 lbs (26.0kg)



www.marantz.com

You can find your nearest authorized distributor or dealer on our website.

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