marantz®

Model PM-10 Owner's Manual

Integrated Amplifier

You can print more than one page of a PDF onto a single sheet of paper.

Contents

Thank you for purchasing this Marantz product.
To ensure proper operation, please read this owner's manual carefully before using the product.
After reading this manual, be sure to keep it for future reference.

Accessories

Check that the following parts are supplied with the product.

Quick Start Guide	Power cord
CD-ROM (Owner's Manual)	Remote control unit (RC004PMSA)
Safety Instructions	R03/AAA batteries

About the remote control

Inserting the batteries

1 **Remove the rear lid in the direction of the arrow and remove it.**
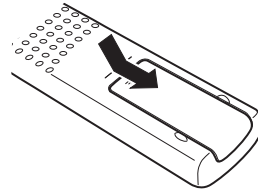
2 **Insert two batteries correctly into the battery compartment as indicated.**
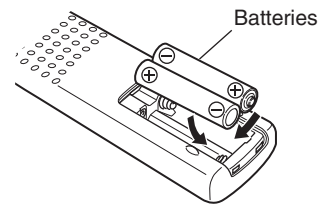
Batteries

3 **Put the rear cover back on.**

NOTE

- To prevent damage or leakage of battery fluid:
    - Do not use a new battery together with an old one.
    - Do not use two different types of batteries.
- Remove the batteries from the remote control unit if it will not be in use for long periods.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.

Operating range of the remote control unit

Point the remote control unit at the remote sensor when operating it.

Approx. 7 m

30° 30°

Overview

Connections

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Appendix
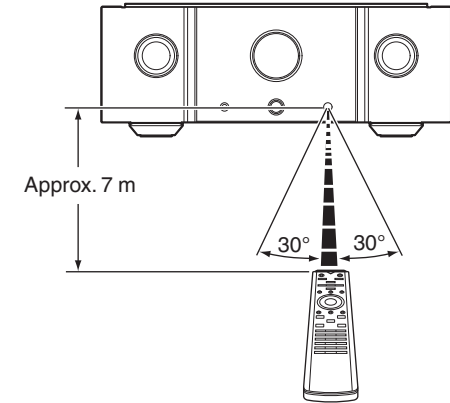
Features

High quality sound

- **HDAM®SA3 Module**

  This unit includes the HDAM®SA3 which had been developed for high-end models. The HDAM®SA3 is incorporated into many components, such as the current feedback phono equalizer.

- **All-stage Balanced Configuration Amplifier Circuit**

  This unit has an all-stage balanced configuration and the power amplifier receives output via a BTL (Bridged Transless) connection. Both the positive and negative terminals of the speakers are directly driven by the output stage of the power amplifier to exhibit a high drive capacity. Furthermore, since the drive current of the speakers does not flow directly into the ground circuit, the voltage that serves as the basis of the amplification is stabilized, reducing noise and interference between circuits, so that amplification is conducted accurately.

- **Linear Control Volume**

  The control knob had adopted the high-end model design concept. For better S/N ratio, the MAS6116 from Micro Analog Systems and the HDAM®SA3 have been combined, which enables smooth adjustment in the range of 0 to −100 dB in units of ±0.5 dB.

- **Hypex Switching Power Amplifier Module**

  The power amplifier uses a total of 4 Hypex NCore® switching power amplifier modules with BTL connections. The switching amplifier modules exhibit extremely excellent performance with minimal distortion from low to high frequency and no frequency response change regardless of speaker impedance. Combined use with a high-speed pre amplifier circuit using HDAM®SA3 faithfully and precisely reproduces the detailed information in DSD and high-resolution sound sources.

- **Dual-Amplifier Structure**

  Amplifier of this unit has dual structure, pre amplifier and power buffer, adopting high-end model design concept. This dual structure enables the power buffer amplifier to drive the speakers powerfully, preventing influence from the back electromagnetic force from the speakers. The pre amplifier drives the power buffer with super-low distortion.

- **Constant Current Feedback Phono Equalizer**

  This unit incorporates the constant current feedback phono equalizer which had been developed for high-end models. This equalizer, developed by Marantz, has the advantages of both NF-type and CR-type phono equalizers, and it supports both MM and MC cartridges. The PHONO input terminal is also equipped with an input impedance switch. In addition to cartridges with medium to high impedance, it provides the optimal impedance for cartridges with low impedances of about 2 to 10 Ω/ohms which are representative of high-end brand cartridges.

- **High Sound Quality Parts Employed**

  High sound quality parts are used in every part of the circuit, including newly adopted high sound quality MELF resistors and film capacitors.

- **Display**

  This unit adopts an LCD (Liquid Crystal Display) to display the input source and volume level. Compared with other types of display panels, an LCD requires less drive power and generates less radiation noise, which minimizes any adverse effect on sound quality.

- **Double-layered chassis**
- **High-grade Machined Copper Analog Audio Input Terminals (CD/PHONO Only)**
- **High-grade Machined Copper Speaker Terminals**

High performance

- **Purest Mode**

  Even greater improvements in sound quality are facilitated by cutting off the power supply of circuits not required when simply listening.

- **F.C.B.S.**

  A Floating Control Bus System (F.C.B.S.) enables the user to connect up to four PM-10 units, making a diversity of applications possible with complete bi-amp and multichannel connections. Moreover, a ground loop is not formed among multiple PM-10 units connected; therefore, sound quality is not adversely affected.

- **BI-AMP Mode**

  Complete bi-amp connection proposed by Marantz enables a level of reproduction of the acoustic field never before achieved. Synchronized operation of two PM-10 units is made possible by F.C.B.S. (Floating Control Bus System) connection, with each PM-10 in Bi-Amp mode working as a monaural integrated amplifier.

- **Power Amplifier Mode**

  In this mode, this unit works as a power amplifier.

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Part names and functions

Front panel
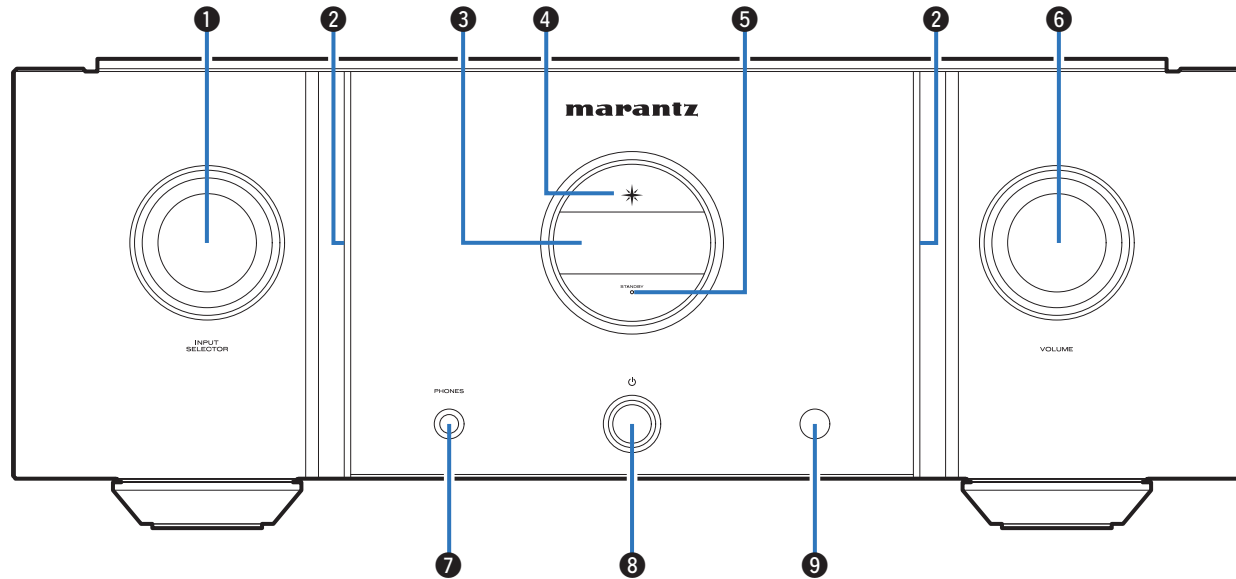
❶ Input source select knob (INPUT SELECTOR)

This selects the input source. (☞ p. 17)

❷ Illumination lamp

The illumination lamp lights (blue).

❸ Display

This displays various pieces of information.

❹ Power indicator

This is lit as follows according to the power status:

- Power on : Blue
- Standby : Off
- Power off : Off

❺ STANDBY indicator

This is lit as follows according to the power status:

- Power on : Off
- After power on, until the unit is able to be used : Red (blinking)
- Standby : Red
- Power off : Off

❻ VOLUME knob

These adjust the volume level. (☞ p. 17)

❼ Headphones jack (PHONES)

Used to connect headphones.

Turn off speaker output when using headphones.

| NOTE |

- To prevent hearing loss, do not raise the volume level excessively when using headphones.

❽ Power operation button (⏻)

This turns the power on/off. (☞ p. 17)

❾ Remote control sensor

This receives signals from the remote control unit. (☞ p. 2)

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Rear panel
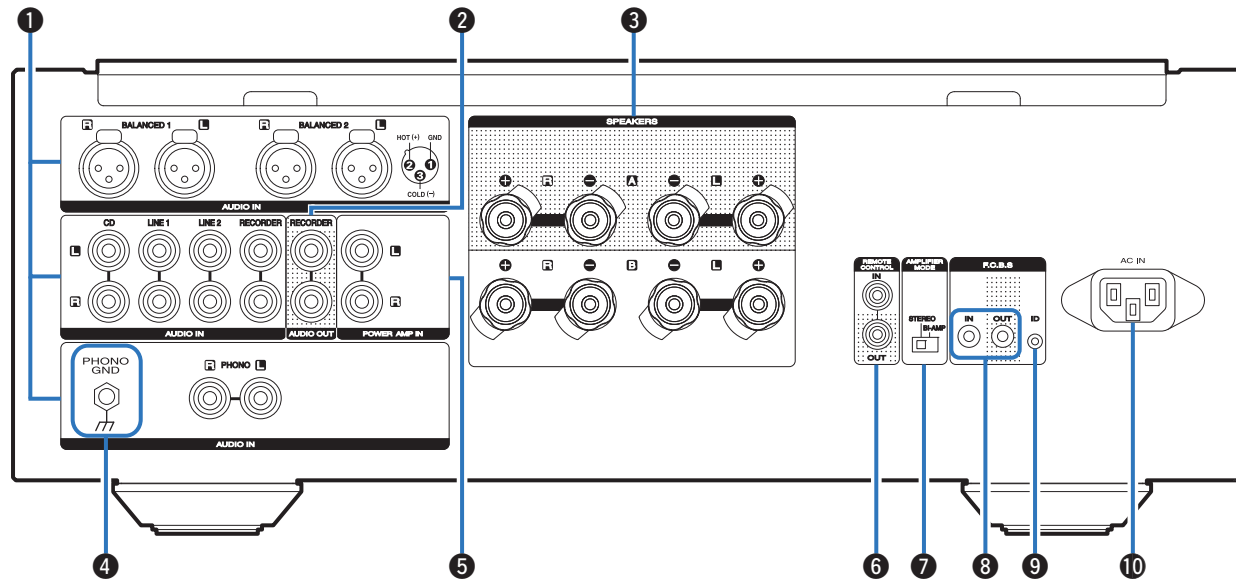
① **Analog audio input connectors (AUDIO IN)**

Used to connect devices equipped with analog audio output connectors.

- "Connecting a playback device" (☞ p. 10)
- "Connecting a recording device" (☞ p. 10)

② **AUDIO OUT connectors (RECORDER)**

Used to connect the input connector of a recorder. (☞ p. 10)

③ **Speaker terminals (SPEAKERS)**

Used to connect speakers. (☞ p. 8)

④ **PHONO GND terminal**

Used to connect the ground wire of a turntable. (☞ p. 10)

⑤ **Power amplifier connectors (POWER AMP IN)**

Used to connect a pre-amplifier when this unit is used as a power amplifier. (☞ p. 15)

⑥ **Remote control input/output connectors (REMOTE CONTROL)**

Used to connect to a Marantz audio device that is compatible with the remote control function. (☞ p. 16)

⑦ **AMPLIFIER MODE switch**

Used to switch the amplifier mode (STEREO/BI-AMP). ("Stereo complete bi-amp connection" (☞ p. 12))

⑧ **F.C.B.S. connectors**

Used to connect a high quality playback system using two or more of these units. (☞ p. 11)

⑨ **F.C.B.S. ID button**

Used to set the ID number for F.C.B.S.. (☞ p. 12)

⑩ **AC inlet (AC IN)**

Used to connect the power cord. (☞ p. 16)

Remote control unit

❑ Operating this unit

To operate amplifier, press REMOTE MODE AMP button to switch the remote control to the amplifier operation mode.
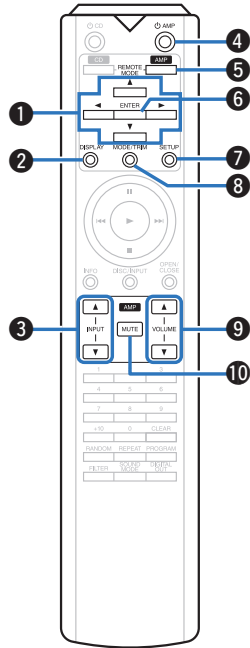
① Cursor buttons (△▽◁▷)

These select items.

② DISPLAY button

This turns the display on/off. Press and hold to turn the illumination lamp on/off.

③ Input source select buttons (INPUT ▲▼)

This selects the input source. (☞ p. 17)

④ Power operation button (⏻ AMP)

This turns the power on/off (standby). (☞ p. 17)

⑤ Remote mode select button (REMOTE MODE AMP)

This switches the remote control to amplifier control mode.

⑥ ENTER button

This determines the selection.

⑦ SETUP button

This displays the setting menu on the display. (☞ p. 20)

⑧ Volume balance adjustment menu button (MODE/TRIM)

This displays the volume balance adjustment menu on the display. (☞ p. 18)

⑨ VOLUME buttons (▲▼)

These adjust the volume level. (☞ p. 17)

⑩ MUTE button

This mutes the output audio. (☞ p. 18)

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❑ CD player operations

The supplied remote control can be used to control a Marantz CD player in addition to this unit. To operate a Marantz CD player, press the REMOTE MODE CD button to switch the remote control to the CD player operation mode.
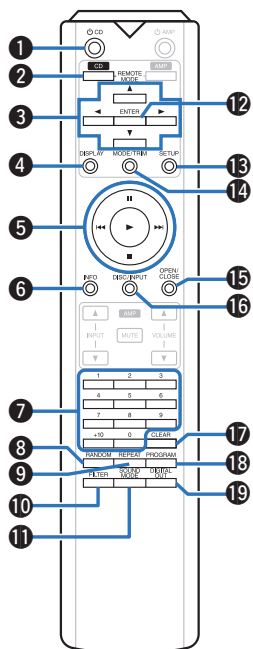
q Power operation button (⏻ CD)

w Remote mode select button (REMOTE MODE CD)

e Cursor buttons (△▽◁ ▷)

r DISPLAY button

t System buttons
- Skip buttons (I◀◀ / ▶▶I)
- Stop button (■)
- Play button (▶)
- Pause button (❙❙)

y Information button (INFO)

u Number buttons (0 – 9, +10)

i RANDOM button

o REPEAT button

Q0 FILTER button

Q1 SOUND MODE button

Q2 ENTER button

Q3 SETUP button

Q4 Playback mode switching button (MODE/TRIM)

Q5 OPEN/CLOSE button

Q6 DISC/INPUT button

Q7 CLEAR button

Q8 PROGRAM button

Q9 DIGITAL OUT button

🖉

- Basic amplifier operations such as switching input source, adjusting volume, and muting are also possible when the operation mode of the remote control is set to CD.
- When using it, also refer to the operating instructions of the other devices.
- The remote control may not operate some products.

Connections

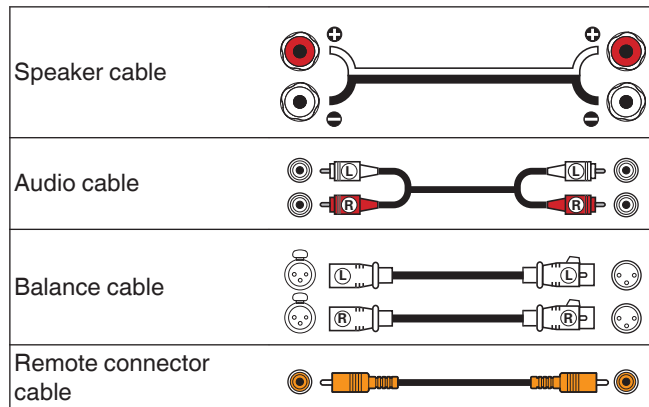## ❑ Contents

NOTE

- Do not plug in the power cord until all connections have been completed.
- Do not bundle power cords together with connection cables. Doing so can result in humming or noise.

❑ Cables used for connections

Provide necessary cables according to the devices you want to connect.

Speaker cable	
Audio cable	
Balance cable	
Remote connector cable	

Connecting speakers

NOTE

- Disconnect this unit's power plug from the power outlet before connecting the speakers.
- Connect so that the speaker cable core wires do not protrude from the speaker terminal. The protection circuit may be activated if the core wires touch the rear panel or if the + and - sides touch each other. ("Protection circuit" (☞ p. 27))
- Never touch the speaker terminals while the power cord is connected. Doing so could result in electric shock.
- Use speakers with impedances within the ranges shown below to suit how they are used.

Speaker terminals used on this unit	No. of connected speakers	Speaker Impedance
SPEAKERS A (Standard connection)	2 (one set)	4 – 16 Ω/ohms
SPEAKERS B	2 (one set)	4 – 16 Ω/ohms
SPEAKERS A and SPEAKERS B	4 (two sets)	8 – 16 Ω/ohms
SPEAKERS A and SPEAKERS B (Bi-wiring connection)	2 (one set)	4 – 16 Ω/ohms

❑ Connecting the speaker cables

Carefully check the left (L) and right (R) channels and + (red) and – (black) polarities on the speakers being connected to this unit, and be sure to connect the channels and polarities correctly.

1 Peel off about 10 mm of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it.

2 Turn the speaker terminal counterclockwise to loosen it.

3 Insert the speaker cable's core wire to the hilt into the speaker terminal.
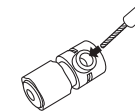
4 Turn the speaker terminal clockwise to tighten it.

Spade lug connector

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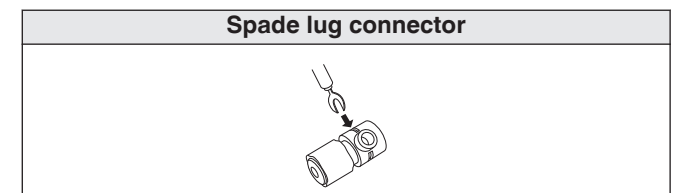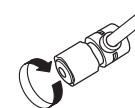
Speaker connection

This unit is equipped with two sets of speaker terminals (SPEAKER A and SPEAKER B). One set of speakers can be connected to each set of terminals, and a total of two sets of speakers can be connected.

The same signal is output from the SPEAKERS A and SPEAKERS B terminals.

When only one set of speakers is to be connected, use either the SPEAKERS A or SPEAKERS B terminals.
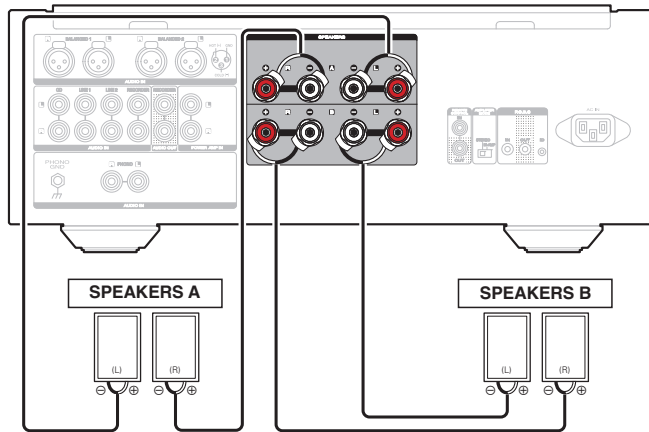
Bi-wiring connection

This connection limits the effects of signal interference between the high range speakers (tweeters) and low range speakers (woofers), allowing you to enjoy high quality playback.

When bi-wiring with bi-wireable speakers, connect the mid and high range terminals to SPEAKERS A (or SPEAKERS B), the low range terminals to SPEAKERS B (or SPEAKERS A).
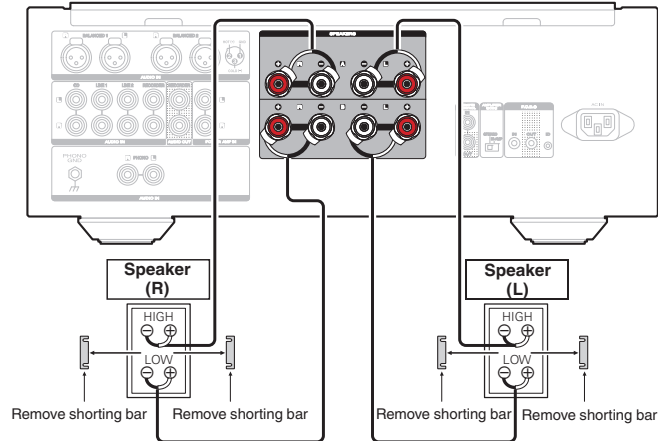
Connecting a playback device

You can connect turntables, tuners, CD players and network audio players to this unit.

Set the phono equalizer of this unit in the "PHONO" section of the setting menu according to the type of turntable cartridge to be connected. (☞ p. 21)

If you set this unit's input source to "PHONO" and you accidentally increase the volume without having a turntable connected, you may hear a hum noise from the speakers.
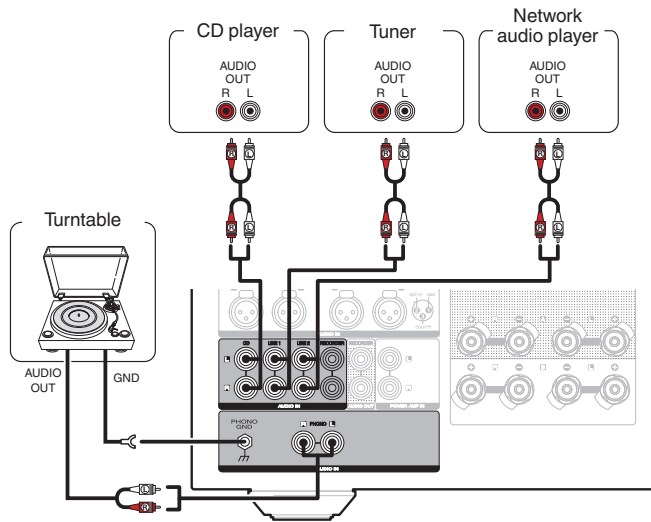
NOTE

- The earth terminal (PHONO GND) of this unit is not for safety grounding purposes. If this terminal is connected when there is a lot of noise, the noise can be reduced. Note that depending on the turntable, connecting the ground line may have the reverse effect of increasing noise. In this case, it is not necessary to connect the ground line.

- The PHONO input terminals are equipped with a short pin-plug. Remove this plug to connect a record player. Store the removed short pin-plug in a safe place so as not to lose it.

About balanced connectors

This unit has both unbalanced and balanced connectors. The balanced connectors have three pins, making it possible to transmit audio signals as a balanced signal, reducing the effect of external noise. They also have a removable lock mechanism, which reduces shaking in the connector area, making the connection highly reliable.
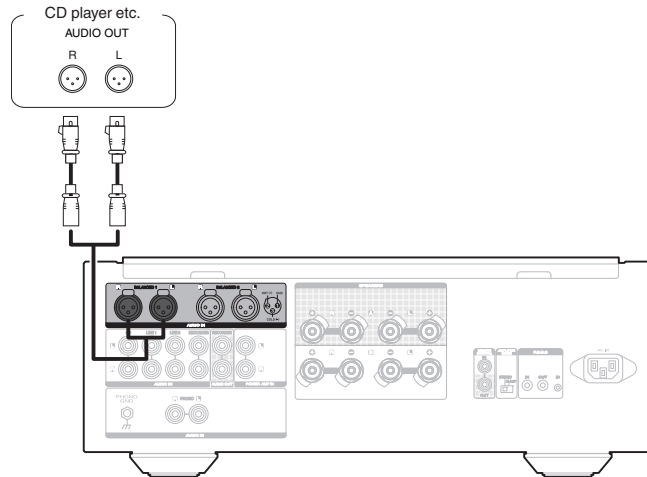
❏ Phases of the balanced connectors

The XLR connector for professional use is internally wired in either of the following two systems. This unit employs the European system.

- USA system (② PIN=COLD ③ PIN=HOT)
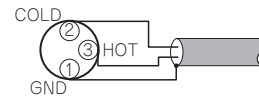
- European system (② PIN=HOT ③ PIN=COLD)
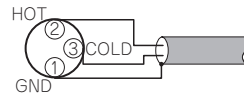
If a product that employs the USA system is connected with this unit via a balanced cable, the output signal may be phase-inverted. To correct the inversion, connect the one side XLR connector reversing the ② PIN and ③ PIN.

Connecting a recording device
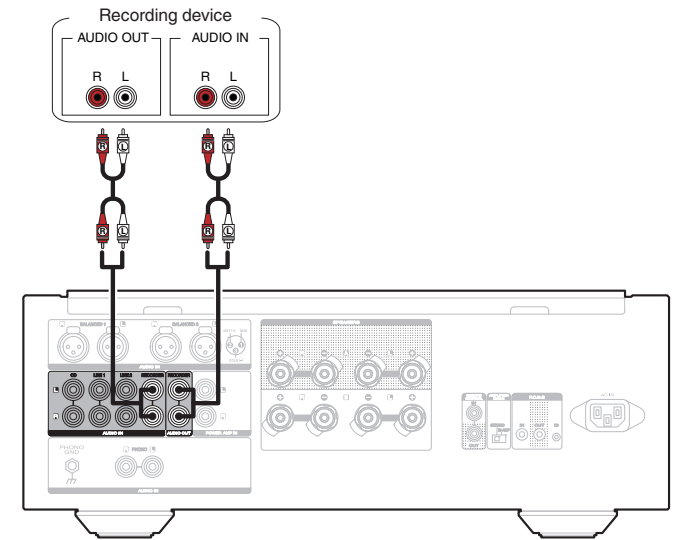
NOTE

- Never insert the short-circuiting pin plug into the recording output connectors (AUDIO OUT RECORDER). Doing so could result in damage.

F.C.B.S. connection

The Marantz F.C.B.S. (Floating Control Bus System) is the high quality sound system for link control between multiple PM-10 units (up to 4 units). Each unit is controlled via its ID number registered beforehand.

The ID numbers need to be set to an operating unit (master) and a subordinate unit (slave) receiving the command from the master. For slave units, register ID numbers in the order of command reception from the master.

Once registered the ID numbers, the units will enable link control operations such as input selection, volume control, on/off selection of muting, display, etc.

Furthermore, F.C.B.S. connection of multiple units has the feature that switches this unit's output from stereo to monaural so that the unit can works as a monaural output amplifier. Follow the respective instructions to make the necessary settings.

Preparation for F.C.B.S. connection

❏ Making the F.C.B.S. connection

To use multiple PM-10 units, make this connection in addition to audio connection.

For details on each connection feature, refer to the respective instructions.

Prepare the correct number of portable audio connection cables for the number of units to be connected. Either of the following types of connection cables are adequate.

- Φ3.5 Monaural mini plug ← → Φ3.5 monaural mini plug connecting cable
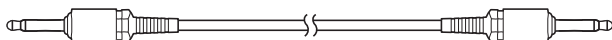
- Φ3.5 Stereo mini plug ← → Φ3.5 stereo mini plug connecting cable
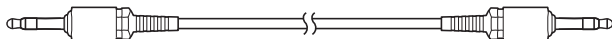
NOTE

- Do not use connecting cables that contain resistance.

❏ Connection example

In the connection of the following example, an unit with ID number 1 acts as a master amplifier to control all the other slave units with ID numbers 2 to 4.

Signal flow

ID 1 Master

ID 2 Slave

ID 3 Slave

ID 4 Slave
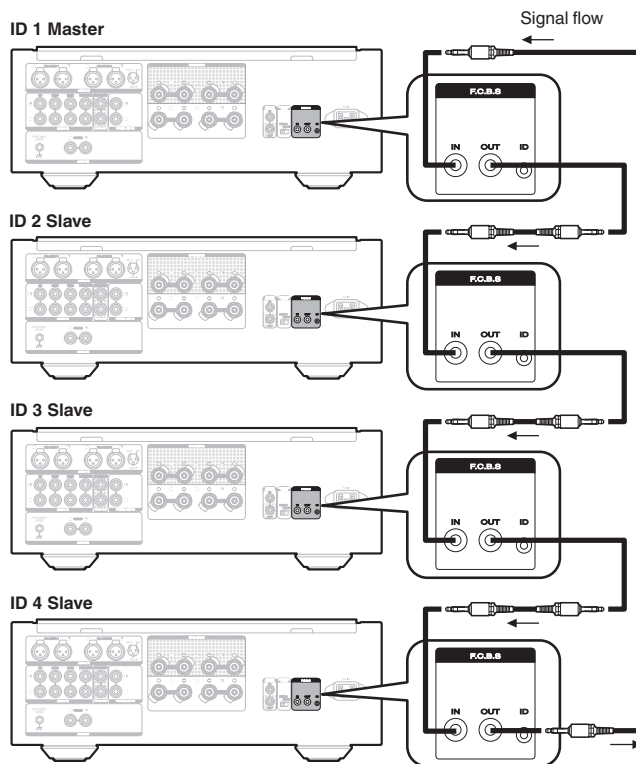
NOTE

- The PM-10 F.C.B.S. function is only valid between the same PM-10 models.
- To turn the power of multiple F.C.B.S.-connected units ON/OFF, switch the power ON in order of lowest to highest ID number, and switch the power OFF in order of highest to lowest ID number.

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❑ How to set ID number for F.C.B.S.

When the unit is turned on, the display shows the ID number for three seconds.

For a master unit, ID number 1 needs to be assigned.

For a slave unit, set any of ID numbers 2 to 4.

F.C.B.S. ID
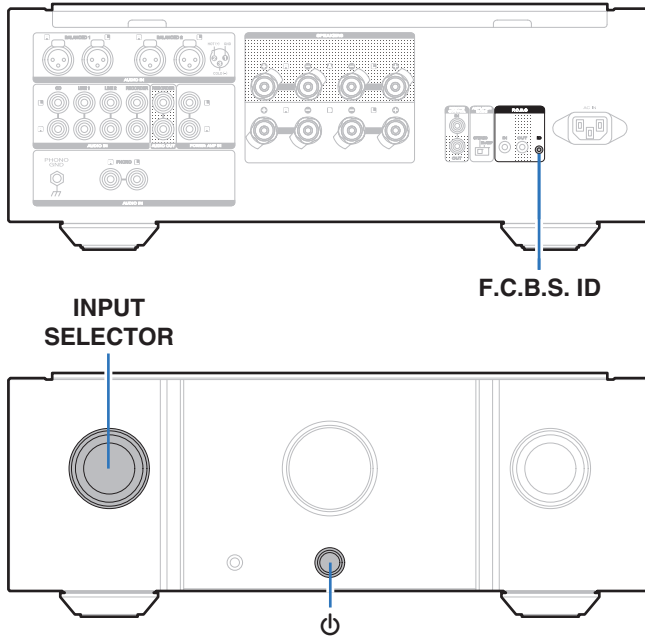
INPUT SELECTOR

1 While holding F.C.B.S. ID on the rear panel, press ⏻.

2 Turn INPUT SELECTOR on the unit to select an ID number.

3 Turn the unit off.

4 Again turn the unit on.

- The setting is saved.
- The unit registered as a slave shows "SLAVE" on the display.

NOTE

- If using this unit by itself as a stereo amplifier, set the ID number to "0" (Default setting is "0").
- If the ID number is set to a number other than "0", this unit cannot be used for standalone operation.

Stereo complete bi-amp connection

This mode enables the two amplifiers connected to this unit to function as one monaural amplifier. To use this mode, two F.C.B.S. connected PM-10 units are required.

To switch the mode, use the AMPLIFIER MODE switch on the rear panel while the power is off.

The figures below show example displays in the stereo and bi-amp modes.

Stereo mode
```
LINE-1
  -40.0
```

Bi-amp mode
```
LINE-1
 ✳ -40.0
```
Bi-amp mode indicator
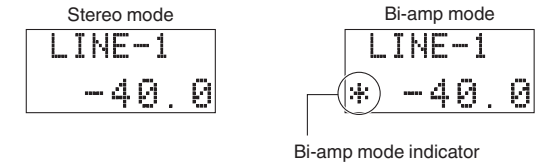
In bi-amp mode, connect to the left channel input jack. The right channel input is disabled.

The same signals are output from the left and right speaker terminals.

NOTE

- Always turn the power to the unit OFF before changing the operating mode switch setting. Turning the power ON again activates the new setting.
- When in bi-amp mode, the R channel input jacks cannot be used.
- When in bi-amp mode, the signals input into the L channel are output from both channels. Therefore, the same signals are output from the L channel and R channel in RECORDER OUT, headphones jack.
- Speaker systems connected using complete bi-amp connections must support bi-amp connections. Before connecting your speakers, check in the instruction manual that came with the speakers or contact the manufacturer to confirm whether they support bi-amp connection.

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Super Audio CD player, etc.

◀ : Signal flow

Set to "BI-AMP".

Set to "BI-AMP".

Set PM-10 for L channel to ID 1

To power outlet.

Set PM-10 for R channel to ID 2

To power outlet.

MF / HF

LF

MF / HF

LF

Remove shorting bar

L channel speaker

Remove shorting bar

Remove shorting bar

R channel speaker

Remove shorting bar
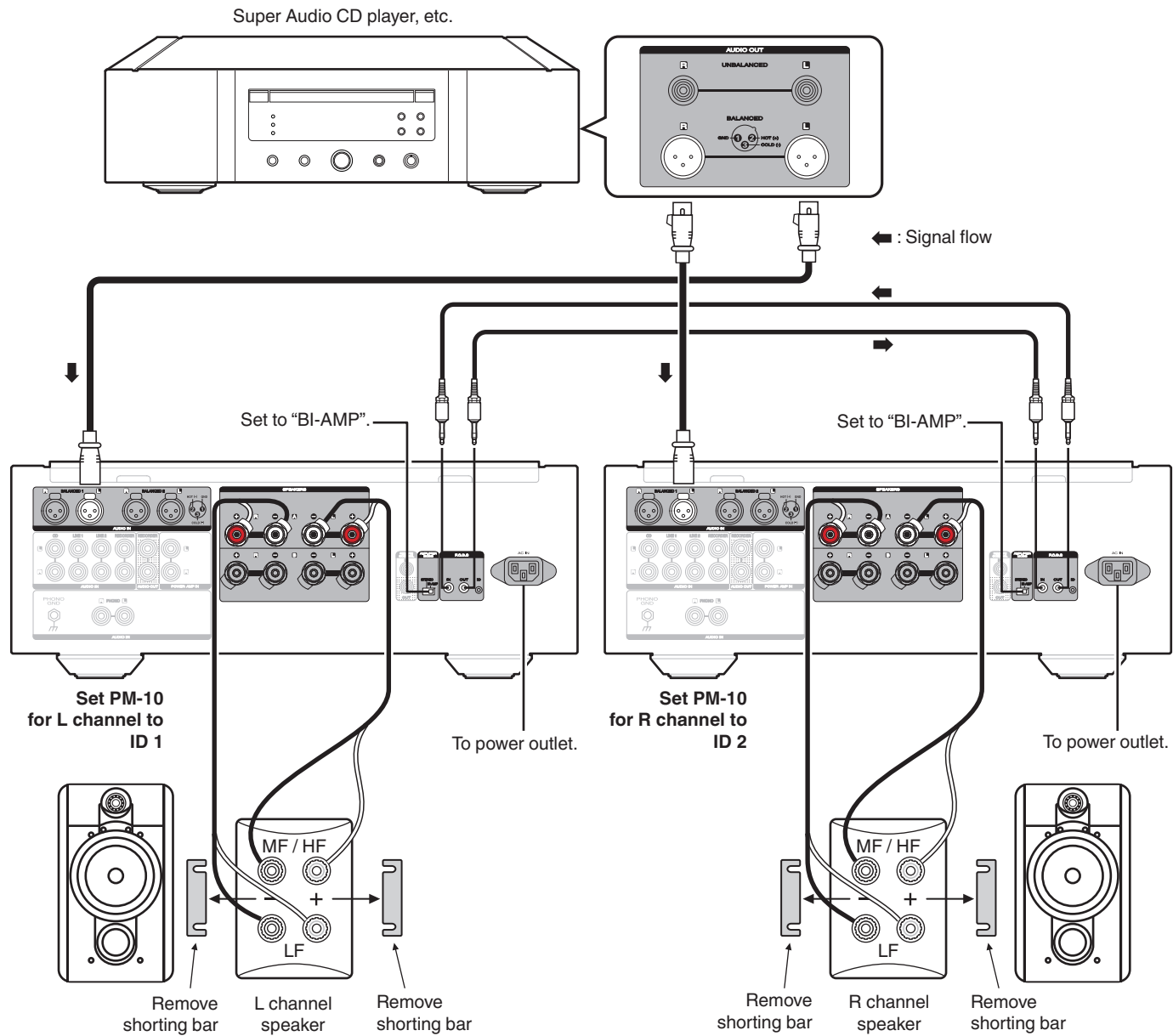
Connection for 5.1 Multi-channel Playback

The three units are connected using F.C.B.S. For the F.C.B.S connection, prepare 3 audio connection cables, and refer to F.C.B.S.. (☞ p. 11)

Connect the outputs of players that have 5.1 channel analog outputs to each of the three units.

If using an active subwoofer, see the instruction manual that came with the subwoofer for further instructions.

Set the ID numbers for the three amplifiers as explained in How to set ID number for F.C.B.S.. (☞ p. 12)

- When the ID 1 unit is operated, ID 2 and ID 3 units will operate in sync.

SACD multi-channel player, etc.

◀ : Signal flow

For front L/R speakers
Set PM-10 to ID 1

Set to "STEREO".

For center speaker
Set PM-10 to ID 2

Set to "STEREO".

For surround speakers
Set PM-10 to ID 3

Set to "STEREO".

To power outlet.

To power outlet.

To power outlet.

L CH front speaker

R CH front speaker

Front center speaker

L CH surround speaker

R CH surround speaker
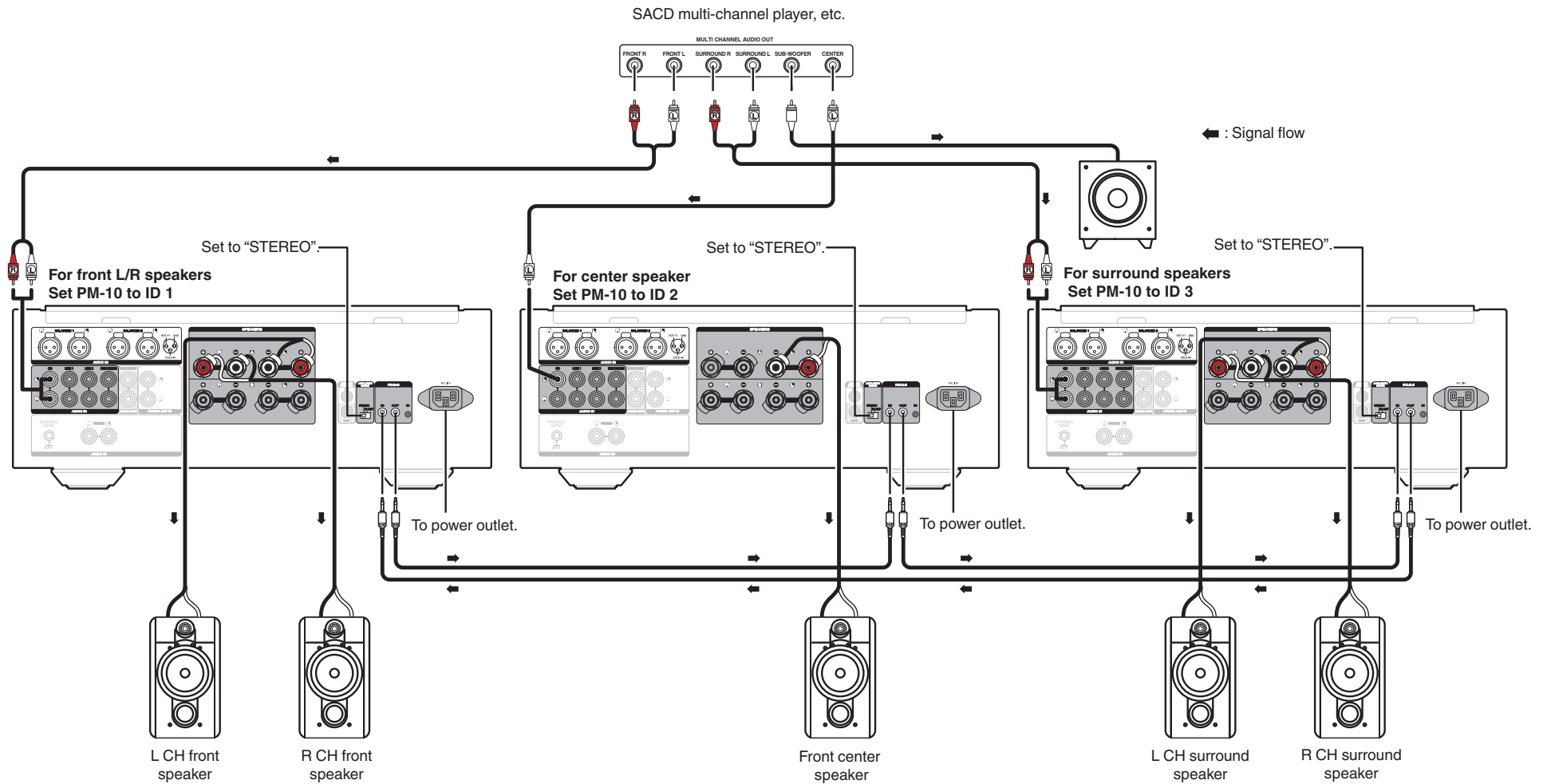
❏ Speaker Positioning for Super Audio Multi-channel Sound

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 multichannel 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. 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.

Subwoofer
Center speaker
Front speaker (Left)
Front speaker (Right)
60°
approx.110° approx.110°
Recommended listening position
Rear speaker (Left Surround)
Rear speaker (Right Surround)
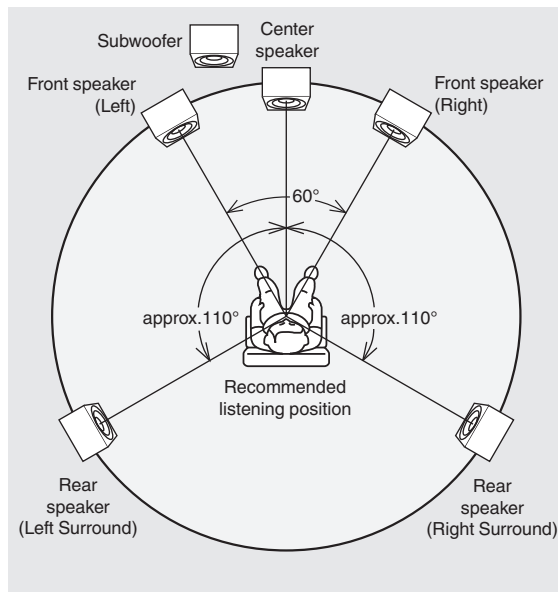
- ITU (International Telecommunication Union)

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".

Connecting a pre-amplifier

If you use a pre-amplifier, connect it as shown below, and then you can use this unit as a power amplifier.

Pre-amplifier
AUDIO OUT
R L
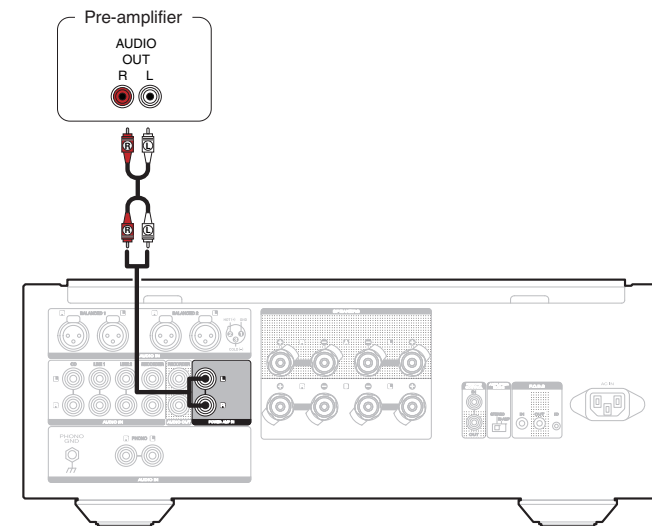
1 **Turn INPUT SELECTOR on the unit to select the input source to "POWER AMP".**

- The POWER AMP IN terminals are equipped with a short pin-plug. Remove this plug to connect a pre-amplifier. Store the removed short pin-plug in a safe place so as not to lose it.
- You cannot use the input source switching buttons on the remote control unit to select "POWER AMP".

NOTE

- When the input source is POWER AMP, adjustment of the volume, muting and balance has no effect. Adjust the volume on the pre-amplifier.
- When the input source is set to POWER AMP, you cannot use the remote control unit to select the input source.
- When the input source is POWER AMP, the main unit outputs at maximum volume. Check the output level on the input device before playing it and adjust the volume accordingly.

Connecting devices with remote control connectors

Performing operations by RC on this unit without visual contact

You can connect an external IR receiver to the REMOTE CONTROL connectors to perform operations on this unit with the supplied remote control unit without visual contact. This might be necessary if the unit is hidden in a cupboard or corner, so you can't directly point with the remote control unit to the device.

Infrared retransmitter   Infrared sensor

RC OUT
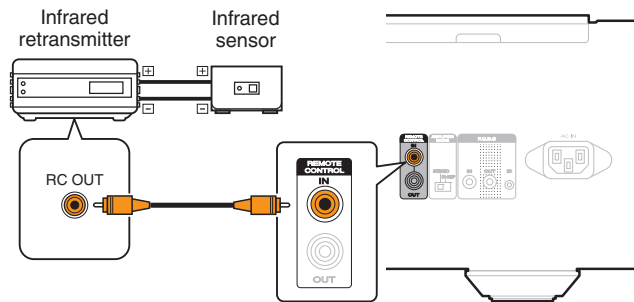
Remotely connecting Marantz audio devices

You can transmit remote control signals simply by connecting a Marantz audio device to the REMOTE CONTROL IN/OUT connectors using the remote connection cable provided with the device.

Set the remote control switch located on the rear panel of the connected audio component to "EXTERNAL" to use this feature.

REMOTE CONTROL

IN

OUT

EXTERNAL

INTERNAL

EXTERNAL

INTERNAL
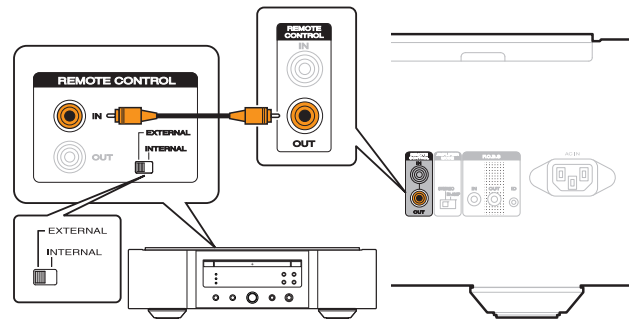
Connecting the power cord

Wait until all connections have been completed before connecting the power cord.

To household power outlet
(AC 230 V, 50/60 Hz)

Power cord (supplied)

16

Playback

❏ Contents

⏻ AMP

REMOTE MODE AMP

△▽▷

DISPLAY

MODE/TRIM

INPUT ▲▼

VOLUME ▲▼

MUTE

Turning the power on

1 Press ⏻ on the main unit to turn the power on.

- The power indicator lights in blue.
- The standby indicator blinks in red until the unit is able to be used.

✎

- Press ⏻ AMP on the remote control unit to turn on power from standby mode.
- You can also turn the INPUT SELECTOR on the main unit when the unit is in standby mode to turn on the power.

❏ Switching the power to standby

1 Press ⏻ AMP on the remote control.

The unit switches to standby mode, and the STANDBY indicator lights red.

NOTE

- Power continues to be supplied to some of the circuitry even when the power is in the standby mode. When leaving home for long periods of time or when going on vacation, either press ⏻ on the main unit to turn off the power, or unplug the power cord from the power outlet.

Selecting the input source

1 Use INPUT ▲▼ to select the input source to be played back.

The selected input source appears on the display.

✎

- You can also select the input source by turning INPUT SELECTOR on the main unit.

Adjusting the volume

1 Use VOLUME ▲▼ to adjust the volume.

✎

- You can also adjust the volume by turning VOLUME on the main unit.

Turning off the sound temporarily (Muting)

1 **Press MUTE.**

"ATT" appears on the display and the sound is muted.

✎
- To cancel mute, press MUTE again.

❏ Setting the attenuation level when sound is muted

The attenuation level can be set at –20 dB, –40 dB, or –∞.
- The factory default setting is –∞.

1 **Press and hold MUTE for 2 seconds or longer.**

The attenuation level will appear on the display.

2 **Press MUTE.**

The attenuation level setting value changes each time the button is pressed.

✎
- If not operated for 2 seconds, the current setting is saved and the display returns to normal.

Adjusting the left and right channel balance

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.
The factory default setting is 0.0 dB (maximum).

1 **Press MODE/TRIM.**

The unit enters the level adjustment mode.
- The left channel level value flashes.

2 **Use △▽ to adjust the left channel level.**

3 **Press ▷.**

The adjustment mode selects the right channel.
- The right channel level value flashes.

4 **Use △▽ to adjust the right channel level.**

5 **Press MODE/TRIM.**

The unit exits the adjustment mode.
- If you have connected a "SLAVE" device using the F.C.B.S. connection (☞), proceed to the slave setting.

Having the display and the illumination lamp off

The display circuit operation can be stopped to minimize noise from the display and the display circuit which could interfere with the analog audio output signal.

1 **Press DISPLAY.**

Each time you press DISPLAY, the display and the illumination lamp (blue) switch on/off at the same time.

✎
- If you operate the VOLUME knob or another control when the display is off, the display turns on again. When operation is finished, the display turns off automatically after approximately 2 seconds.

Having the illumination lamp always off

The following procedure makes the illumination lamp always off regardless of the display on/off operation.

1 **Press and hold DISPLAY for two seconds and longer while display is lighted.**

Press and hold DISPLAY for two seconds and longer while the lamp is always off to return to the normal setting.

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Playing CDs

This section uses playback from a CD as an example.

1 **Press ⏻ on this unit to turn the power on.**

2 **Use INPUT ▲▼ to switch the input source to "CD".**

"CD" is displayed on the display of this unit.

3 **Playback the CD.**

4 **Use VOLUME ▲▼ to adjust the volume.**

Recording

Audio signals input into this unit can be output to an external recording device. When recording audio from a playback device connected to this unit, audio can be recorded with the playback device still connected to this unit.

1 **Press ⏻ on this unit to turn the power on.**

2 **Press INPUT ▲▼ to switch to the input source from which you want to record.**

The selected input source is displayed on the display of this unit.

3 **Recording starts.**

- For information on operations, see the owner's manual of the recording device.

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Settings

Menu map

By default, this unit has recommended settings defined. You can customize this unit based on your existing system and your preferences.

Setting items	Description	Page
PUREST	Switches PUREST mode on or off.	21
PHONO	Sets the phono equalizer of this unit according to the type or impedance of the turntable cartridge to be connected.	21
AUTO STBY (Auto Standby)	Sets whether to automatically switch the unit to the standby mode when the unit remains in the stop mode for more than 30 minutes.	21

Menu operation

△▽◁
ENTER
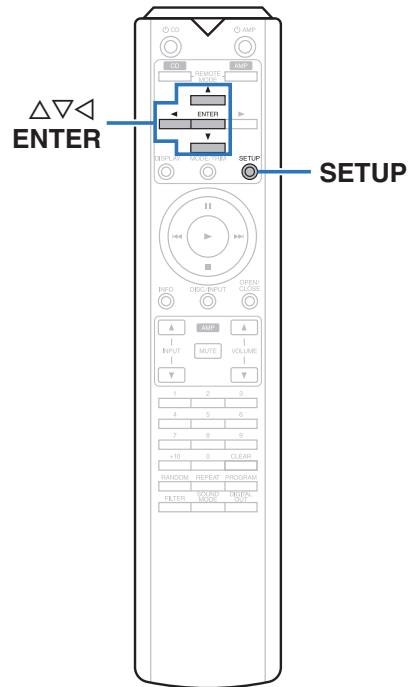
SETUP

1 **Press SETUP.**

The menu is displayed on the display.

2 **Use △▽ to select the menu to be set or operated, then press ENTER.**

3 **Use △▽ to change to desired setting.**

4 **Press ENTER to enter the setting.**

- To return to the previous item, press ◁.
- Exiting the Menu, press SETUP while the menu is displayed.
  The display returns to the normal display.

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PUREST

Noise sources that influence sound quality can be suppressed in order to achieve higher quality playback by stopping all of the following circuits.

- Recording output circuit
- Non-signal state detection circuit
- Headphones circuit

ON:	Enables the high sound quality mode (PUREST mode).
OFF (Default)**:**	Disables the high sound quality mode (PUREST mode).

- When PUREST mode is on

  - Audio output from the recorder output connectors stops.
  - The auto standby function stops working.
  - When headphones are connected, the headphones circuit is activated and the sound output from the headphones.

PHONO

Sets the phono equalizer of this unit according to the type or impedance of the turntable cartridge to be connected.

MM (Default)**:**	Set this for an MM cartridge.
MC Low:	Use this setting for an MC cartridge of less than 10 Ω/ohms.
MC High:	Use this setting for an MC cartridge of 10 Ω/ohms or higher.

NOTE

- If this setting change operation is performed, playback sound is output approximately 10 seconds after the change. (The standby indicator blinks in red until the unit is able to be used.)

AUTO STBY (Auto Standby)

Sets whether to automatically switch the unit to the standby mode when there is no input signal and operation for 30 minutes.

ON (Default)**:**	Enable Auto Standby mode.
OFF:	Disable Auto Standby mode.

- The display will show the remaining time for three minutes before the units enters standby mode.
- In F.C.B.S. connection, only the ID 1 master unit activates Auto Standby mode. If the ID 1 master unit is operated with no audio input, set the Auto Standby mode to off.

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I want to adjust the attenuation level when muting sound

- The attenuation level can be set at –20 dB, –40 dB, or –∞. (☞ p. 18)

I want to turn the illumination lamps on both sides of the unit main panel off

- Turn the illumination lamp setting off. (☞ p. 18)

I want to use two or more of these units for high quality playback

- Use the stereo complete bi-amp connections. (☞ p. 12)
- Use the multi-channel playback connections. (☞ p. 14)

I want to use this unit's remote control to operate a Marantz CD player

- Press the REMOTE MODE CD button on the remote control unit to switch the remote control unit to the CD player operation mode. (☞ p. 7)
- Also, refer to the instruction manual of the CD player.

I want to use bi-wiring compatible speakers

- This unit is compatible with bi-wiring connections. Enjoy high quality playback by using bi-wiring connections. (☞ p. 9)

I want to use this unit as a power amplifier

- Connect the pre amplifier to the POWER AMP IN connectors of this unit. (☞ p. 15)

I want to stop some circuits of this unit to enjoy playback with higher sound quality

- Set "PUREST" to "ON" in the menu. (☞ p. 21)

Troubleshooting

If a problem should arise, first check the following:

1. **Are the connections correct?**
2. **Is the set being operated as described in the owner's manual?**
3. **Are the other devices operating properly?**

If this unit does not operate properly, check the corresponding symptoms in this section.

If the symptoms do not match any of those described here, consult your dealer as it could be due to a fault in this unit. In this case, disconnect the power immediately and contact the store where you purchased this unit.

❑ Power does not turn on / Power is turned off

Symptom	Cause / Solution	Page
Power is not turned on.	• Check whether the power plug is correctly inserted into the power outlet.	16
Power automatically turns off.	• The Auto Standby mode is on. When approx. 30 minutes pass with no audio input and no operations on the unit, this unit automatically enters the standby mode. To disable Auto Standby mode, set "AUTO STBY" on the menu to "OFF".	21
Power turns off and the STANDBY indicator flashes in red approx. every 0.5 seconds.	• The protection circuit has been activated due to a rise in temperature within this unit. Turn the power off, wait about an hour until this unit cools down sufficiently, and then turn the power on again.	27
	• Please re-install this unit in a place having good ventilation.	—
	• Check the speaker connections. The protection circuit may have been activated because speaker cable core wires came in contact with each other or a core wire was disconnected from the connector and came in contact with the rear panel of this unit. After unplugging the power cord, take corrective action such as firmly re-twisting the core wire or taking care of the connector, and then reconnect the wire.	8
	• Turn down the volume and turn on the power again.	17
	• This unit's amplifier circuit has failed. Unplug the power cord and contact our customer service center.	—

❏ Operations cannot be performed through the remote control unit

Symptom	Cause / Solution	Page
Operations cannot be performed through the remote control unit.	• Batteries are worn out. Replace with new batteries.	2
	• Operate the remote control unit within a distance of about 7 m from this unit and at an angle of within 30°.	2
	• Remove any obstacle between this unit and the remote control unit.	—
	• Insert the batteries in the proper direction, checking the ⊕ and ⊖ marks.	2
	• The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.). Move the set to a place in which the remote control sensor will not be exposed to strong light.	—
	• When using a 3D video device, the remote control unit of this unit may not function due to effects of infrared communications between units (such as TV and glasses for 3D viewing). In this case, adjust the direction of units with the 3D communications function and their distance to ensure they do not affect operations from the remote control unit of this unit.	—
	• Press the REMOTE MODE AMP button to switch the remote control operating mode to "AMP".	6

❏ No sound comes out

Symptom	Cause / Solution	Page
No sound comes out of speakers.	• Check the connections for all devices.	8
	• Insert connection cables all the way in.	—
	• Check that input connectors and output connectors are not reversely connected.	—
	• Check cables for damage.	—
	• Check that speaker cables are properly connected. Check that cable core wires come in contact with the metal part on speaker terminals.	8
	• Securely tighten the speaker terminals. Check speaker terminals for looseness.	8
	• Check that the proper input source is selected.	17
	• Adjust the volume.	17
	• Cancel the muting mode.	18
	• No sound is output from the speakers when headphones are connected.	4

❏ **Desired sound does not come out**

Symptom	Cause / Solution	Page
No sound comes out of a specific speaker.	• Check that speaker cables are properly connected.	8
	• Adjust the left and right channel balance.	18
The left and right of stereo sound is reversed.	• Check whether the left and right speakers are connected to the correct speaker terminals.	8

❏ **Sound is interrupted or noise occurs**

Symptom	Cause / Solution	Page
When playing a record, the sound is distorted.	• Adjust to a proper needle pressure.	—
	• Check the tip of the needle.	—
	• Replace the cartridge.	—
When playing a record, a humming noise comes out of the speakers.	• Check that the turntable is connected correctly.	10
	• If there is a TV or AV device near the turntable, such devices may affect the playback sound. Install the turntable in a location as far away as possible from the TV or other AV devices.	—
When playing a record, a humming noise comes out of the speakers when the volume is high. (Howling phenomenon)	• Install the turntable and speakers as far from each other as possible.	10
	• The vibrations from the speakers are being transmitted to the player through the floor. Use cushions, etc., to absorb the speakers' vibrations.	—

Error messages

When multiple amplifiers are connected by F.C.B.S., the error messages described in the table below may be displayed on the display. In such a case, ID number setting or remote cable connection may be in failure. Check the ID number or remote cable connection, referring to the table below. For details on ID number setting, see "How to set ID number for F.C.B.S." (☞ p. 12).

Indication	Meaning	Cause / Solution
ERROR 02	Multiple amplifiers take ID No.2.	• Assign different ID numbers to the amplifiers.
ERROR 03	Multiple amplifiers take ID No.3.	
ERROR 04	Multiple amplifiers take ID No.4.	
ERROR 11	The amplifiers with ID No.2-4 cannot communicate with the amplifier with ID No.1.	• If the amplifier with ID No.1 is not on, turn it ON. • Check that the remote cable is properly connected.
ERROR 12	The amplifier with ID No.1 cannot communicate with the amplifiers with ID No.2-4.	• If multiple amplifiers take ID No.1, set ID numbers properly. • If the amplifier with ID No.1 is connected to the amplifier with ID No.0, set ID numbers properly. • Check that the remote cable is properly connected.

Appendix

Explanation of terms

MM/MC cartridge

There are two types--MM (Moving Magnet) and MC (Moving Coil)--of cartridges for turntable. As the output levels for these two types of cartridges differ, the setting of the phono equalizer that is mounted in this unit must be switched according to the type of cartridge for your turntable. Change this setting in the "PHONO" section of the setting menu. (☞ p. 21)

Speaker impedance

This is an AC resistance value, indicated in Ω (ohms).
Greater power can be obtained when this value is smaller.

Protection circuit

This is a function to prevent damage to devices within the power supply when an abnormality such as an overload, excess voltage occurs or over temperature for any reason.
If a malfunction occurs in this unit, the power indicator blinks red and the unit switches to standby mode.

Trademark information

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- **RMS Power output (Simultaneous drive of both channels) :** 200 W x 2 (8 Ω/ohms load, 1 kHz, T.H.D. 0.05 %)

   400 W x 2 (4 Ω/ohms load, 1 kHz, T.H.D. 0.1 %)

- **Total harmonic distortion**
  (1 kHz, simultaneous drive of both channels, 100 W, 8 Ω/ohms load) : 0.005 %
- **Frequency response (CD, 1 W, 8 Ω/ohms load) :** 5 Hz – 50 kHz ±3 dB
- **Damping factor (8 Ω/ohms load, 20 Hz – 20 kHz) :** 500
- **Input sensitivity/Input impedance**

   PHONO (MC Low) : 280 μV/33 Ω/ohms

   PHONO (MC High) : 280 μV/133 Ω/ohms

   PHONO (MM) : 2.6 mV/47 kΩ/kohms

   BALANCED : 880 mV/40 kΩ/kohms

   CD/LINE/RECORDER : 440 mV/20 kΩ/kohms

   POWER AMP : 1.5 V/20 kΩ/kohms

- **Maximum allowable PHONO input level (1 kHz)**

   MC : 8 mV

   MM : 80 mV

- **RIAA deviation (20 Hz – 20 kHz) :** ±0.5 dB
- **S/N (IHF-A, 8 Ω/ohms load)**

   PHONO (MC) : 76 dB (0.5 mV Input, 1 W Output)

   PHONO (MM) : 88 dB (5 mV Input, 1 W Output)

   BALANCED : 111 dB (4 V Input, Rated output)

   CD/LINE/RECORDER : 111 dB (2 V Input, Rated output)

- **Power requirement :** AC 230 V, 50/60 Hz
- **Power consumption :** 270 W
- **Power consumption in standby mode :** 0.3 W

For the purpose of improvement, the specifications and design are subject to change without notice.

❏ **Dimensions** (Unit : mm)

34

400

453

68

266

66

19

440

4

146

168

67

18

69 302 69

❏ **Weight : 21.3 kg**

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marantz®

PM-10 INTEGRATED AMPLIFIER

the new reference

because music matters

dedicated to detail

For many years, the Marantz Reference Series of MA-9, SC-7 and SA-7 has set the standards for playback and amplification: not only does it draw on all the expertise the company has developed over decades, it's also the embodiment of the thinking underpinning every product the company makes, summed up in the simple phrase 'because music matters'. Now Marantz is challenging its own Reference Series with the introduction of the Premium 10 Series — products designed to create a new reference through new design and engineering.

Comprising the SA-10 SACD/CD Player and matching PM-10 integrated amplifier, this new series sees a complete re-invention of the design principles behind the company's statement products. The player and amplifier are the result of an extensive research, development and — of course — listening process, leading to the incorporation of new thinking and new architectures alongside established Marantz technologies and strengths. All of this has targeted one very clear aim — the best possible reproduction of music, from CD quality all the way up to the latest ultra-high-resolution formats.

because music matters

PM-10
INTEGRATED AMPLIFIER

COPPER PLATED CHASSIS · **TOROIDAL** TRANSFORMER · **CUSTOMISED COMPONENTS** · **HDAM SA3** · **POWER AMP DIRECT** · **SYMMETRIC LAYOUT** · **BALANCED INPUT**

Amplifiers are at the core of Marantz history: its very first product was a high-quality preamplifier designed to make the most of the then-new LP record format. And with a history stretching all the way to that ground-breaking Audio Consolette – which Saul B. Marantz started manufacturing in 1952, and which soon became the first real Marantz product, the Model 1 preamplifier –, it's no surprise that the company's very latest Premium Series model, the PM-10, is an integrated amplifier built to set new standards with all of today's music formats.

In fact, this massively powerful integrated amplifier is constructed more like a high-end separate preamplifier and a pair of monobloc power amps, but all in one beautifully finished case, designed both to maximize performance and create a strong visual statement. Making an integrated amplifier with dual monobloc design fitting in a normal size cabinet is made possible by the use of a stereo switching amplifier. Its aim? To reveal the maximum musical involvement from everything from LPs to the latest high-resolution audio files and beyond, and with all the power and control required to drive the most demanding loudspeakers, allowing them to perform at their best.

Optimized design

To achieve such quality, while still delivering class-leading power, means optimizing each section of the amplifier for its task, just as would be done in a design using a separate preamplifier and monobloc power amps. Commonly, amplifiers use a single transformer, with separate power supply regulation for the preamplifier and power amplifier sections; the PM-10 takes things much further.

A dual-mono design, it has separate power supplies for the preamplifier and each of the power amplifier channels, with one transformer dedicated to the preamp to ensure the delicate signals passing through that section of the amplifier aren't affected by the demands of the high power output stages. There's also a dedicated supply for the microprocessor controlling volume adjustment, input selection and so on, ensuring no noise from the control section finds its way in to the audio path.

At a glace

- The new reference class Integrated amplifier
- Four switching power amplifier channels in bridged mode (two per channel) for maximum grip and drive
- True Balanced Concept from input to speaker to realise ground-free signal management
- Massive power: 200W per channel into 8ohms, and 400Wpc into 4ohms
- Easy driving of a wide range of speakers
- Wide-ranging dynamic ability thanks to instant high-current power supply
- Fully balanced throughout: both preamplifier and power amplifiers
- Marantz Hyper Dynamic Amplifier Modules (HDAM) in preamp stage
- Dual mono power amplifier configuration
- Separate power supplies for preamplifier and control processor, and for each power amp channel
- Discrete phono stage for moving coil and moving magnet cartridges in its own shielded case.
- High-quality construction with double-layer chassis, 5mm thick aluminum top lid, solid aluminum front, copper plated chassis and high-purity copper speakers terminals
- 4-layer PCB for minimized and thickness path for audio signal and power supplies

Toroidal Transformer for supply of pre-amplifier stage
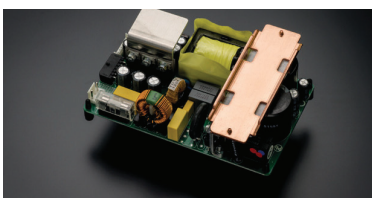
600W switched-mode power supply (SMPS) for power amp stage
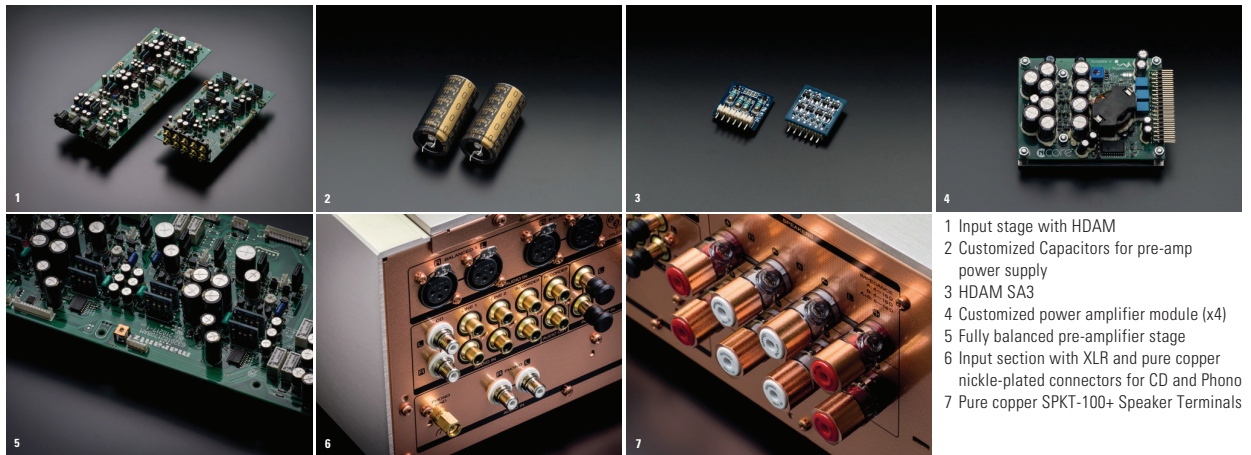
1 Input stage with HDAM
2 Customized Capacitors for pre-amp power supply
3 HDAM SA3
4 Customized power amplifier module (x4)
5 Fully balanced pre-amplifier stage
6 Input section with XLR and pure copper nickle-plated connectors for CD and Phono
7 Pure copper SPKT-100+ Speaker Terminals

Pure analog

Another important part of the noise-reduction here is the fact that the PM-10 is a purely analog amplifier: many rival designs are today including digital-to-analog conversion, or adopting digital amplification and volume control, but Marantz keeps things as clean and simple as possible with its highly-developed all-analog design.

Why? Well, though it may seem convenient to have a DAC in the amplifier, digital circuitry is, by its very nature, noisy (in the electrical sense) and can interfere with the delicate analog signals passing through the amp. That's why Marantz chooses to design its Premium Series range with any digital-to-analog conversion in its SA-CD/CD or network music players, keeping its amplifiers as pure and clean as possible.

What's more, to make the most of that purity of design, the PM-10 has also been designed with the option of working in 'Purest Mode': when engaged, this deactivates any superfluous circuits, giving the signal the cleanest possible path through the amplifier. There's also a Power Amp input, taking the signal straight from the input section to the power stage to let the unit work as a pure power amplifier.

Fully balanced, from input to final power section

The benefits of balanced audio layout have long been understood: unlike a conventional layout, one half of the signal path is in the ground plane of either an amplifier or a cable, balanced working uses two conductors or paths – one for positive, the other for negative – and an entirely separate ground to protect them.

The benefit in cables is that any external interference will affect both positive and negative conductors, but since the signals they are carrying are the mirror image of each other, they will mutually cancel out any effect – which is why such cables are widely used in pro audio and studio applications, where sources of hum are common, and the longer cable runs involved makes them particularly prone to picking up interference.

The same is true when balanced working is applied to audio circuitry: not only does this mirror-imaging of the layout, in which identical components are handling the positive and negative 'legs' of the signal, cancel out any potential interference, it also means any noise or errors introduced in the circuitry will also be canceled out.

An additional benefit is that balanced working also uses stronger signals than unbalanced designs, simple because both halves of the circuit are active – rather than just having one half pushing and the other just providing the ground, here we have a 'push pull' operation. And a stronger signal means one less susceptible to any outside interference: the more signal there is, the less obvious any noise will be.

The PM-10 uses a fully balanced layout, from the input section all the way through to the final power amplifier section: it has two sets of balanced inputs, and also conventional unbalanced line-level inputs (plus a high-quality phono stage), the signal from these inputs being converted to balanced working before being passed through the amplifier. By keeping the signal balanced all the way through the amplifier, and combining that with optimized power supply design, the Marantz engineers are able to achieve maximum noise rejection throughout the audio path, and the highest possible signal purity.

Balanced, bridged power amplification

For the PM-10, Marantz wanted the purest possible sound, plus the power and dynamics to drive and control some of the world's most demanding speakers. To achieve this, they continued the balanced working found in the preamp stage right the way through to the power amplifier stage to its speaker outputs, and also adopted bridged working to develop the power required while maintaining that balanced design. This True Balanced Concept realizes a ground-free signal management from the input to the output.

What is the bridged amplifier about? In a conventional amplifier, one speaker is driven by the positive and negative part of one single output stage per channel, but a bridged amplifier does things differently, using two separate amplifier stages per channel to drive one speaker. To greatly simplify things: one amp pushes the speaker cones and domes, while the other pulls them back. That much greater control over the way the speaker drive units behave, in that the amplifier can make them start moving, and stop, much more precisely is very important for definition and the 'speed' of the system, meaning it can play music with much better rhythmic and spatial controls, not to mention making voices and instruments sound more realistic.

In the PM-10, the bridged amplifiers in the power output stage – a total of four amplifier channels – allow this control to be combined with huge power output: it delivers 2x200W into an 8ohm load, and can easily cope with demanding speakers or those whose impedance varies widely with frequency, thanks to a 2x400W output into 4ohms. That ensures not just the power to drive even big, power-hungry speakers to high levels while keeping the sound clean and distortion-free, but also the 'grip' to make sure those speakers are doing just what the music demands. It's all made possible by the use of the latest switching amplifier technology, allowing a compact integrated amplifier design while still fulfilling Marantz performance requirements.

Carefully selected components

Marantz has long built a reputation for choosing the best-possible components for its Premium Series products – and if it can't find what it wants, it designs and builds the required part. That thinking informed the design of the Hyper Dynamic Amplifier Module (or HDAM): unhappy with the audio quality available from 'amplifier on a chip' IC components, the company designed its own alternative, in the form of a miniature amplifier module built entirely of discrete components. As with all such design decisions, the engineers selected and optimized the HDAM through extensive listening in dedicated Marantz facilities in Europe and Japan, and since it was introduced this component has both been developed and also found its way into an ever-wider range of products.

In the PM-10, the latest-generation HDAM SA3 is used, as part of a current feedback topology designed for the widest possible frequency and dynamic ranges – just the thing for today's ultra-high-resolution audio formats – and aided by ultra-fast custom made block capacitors for the fastest possible response to demands for high current. The same current feedback design is applied to the phono stage in the PM-10, which is configurable for use with either moving coil or moving magnet cartridges for the best possible playback of those favorite LPs. This isn't a case of Marantz responding to the current 'vinyl revival': over the years, while developing and refining its digital competences, the company has remained totally committed to the excellent sound possible from LPs and singles. It has long been fitting its products with high-quality phono stages – even before vinyl came back into fashion!

Built to perform

Like the partnering SA-10 SA-CD/CD player/DAC, the PM-10 is constructed to the highest possible standards, with a double-layered copper-plated chassis for excellent rejection of mechanical and electrical interference, and casework constructed from thick, heavy, non-magnetic aluminum panels. Both products also sit on aluminum machining feet. Even the speaker terminals here are special: even the highest-aiming rivals tend to use components bought in from third party companies, or designed as much for 'show' as 'go', but the PM-10 has newly-designed and exclusive Marantz SPKT-100+ terminals, made from high-purity solid copper. In common with every other design and engineering decision behind this new reference class amplifier, those terminals are there for one very simple reason: 'Because Music Matters'.


The New Reference – PM-10 and SA-10
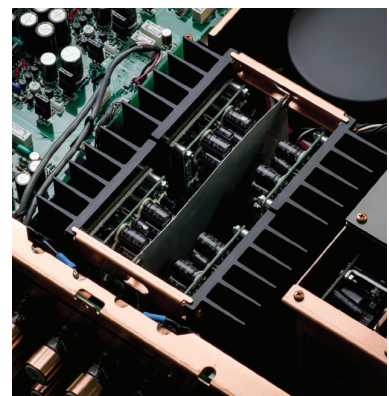
Power amplifier block with 4 modules in full bridge mode configuration

FEATURES	PM-10
Channels	2
Current Feedback Topology	•
Full balanced circuitry architecture	•
Dual Mono Power Amp construction	•
Phono EQ	Constant Current Feedback
HDAM version	SA3, SA2
Power Transformer	Toroidal and 2 x SMPS
High Grade Audio Components	•
Customized Components	•
Symmetric PCB Layout	•
Aluminum extrusion heat sink	• (Separate)
Copper plated chassis	•

INPUTS/OUTPUTS	
Audio Inputs	7
Phono Input: MM / MC	• / •
Audio Outputs	1
Balanced In / Out	2 / -
Power Amp IN	•
Gold Plated Cinch	• / CD and Phono nickle-plated
Speaker Terminals:	Marantz SPKT-100+
Number of terminals	4
D-Bus	•
Floating Control Bus (3.5 mm mono jack x 2)	•
Headphone Out	•

SPECIFICATIONS	
Power Output (8 / 4 Ohm RMS)	200 W / 400 W
Frequency Response	5 Hz - 50 kHz
Total Harmonic Distortion	0.005 %
Damping Factor	500 dB
Input Sensitivity: MM	2.6 mV / 47 kohm
Input Sensitivity: MC	280 µV / 33 ohm (MC-LOW) 280 µV / 133 ohm (MC-HIGH)
Signal to Noise Ratio: MM/MC	88 / 76 dB
Input Sensitivity: High level	440 mV / 20 kohm
Input Sensitivity: Balanced High level	880 mV / 40 kohm
Signal to Noise Ratio: High level	111 dB (2V input/rated output)
Input Sensitivity: Power Amp IN	1.5 V / 20 kohm
Signal to Noise Ratio: Power Amp IN	113 dB

OTHERS	
Linear Drive Power Supply	• (pre-amplifier stage)
Liniear volume control	•
Bi-AMP and Multichannel option	•
Schottky diodes	•
Input buffer amp	all inputs
System block shielding: Copper / metal / none	• / - / -
Double Layer Bottom Plate	•
Low noise LCD display	•
Power Amp	•
5mm aluminum top plate	•

GENERAL	
Available color: Black	•
Metal Front Panel	•
Power Consumption in W	270
Standby Consumption in W	0.3
Auto Power off	•
Detachable Power Cable	•
Remote Control	RC004PMSA
System Remote Function	•
Maximum Dimensions (W x D x H) in inches	17.3 x 17.8 x 6.6
Weight in lbs	47.4
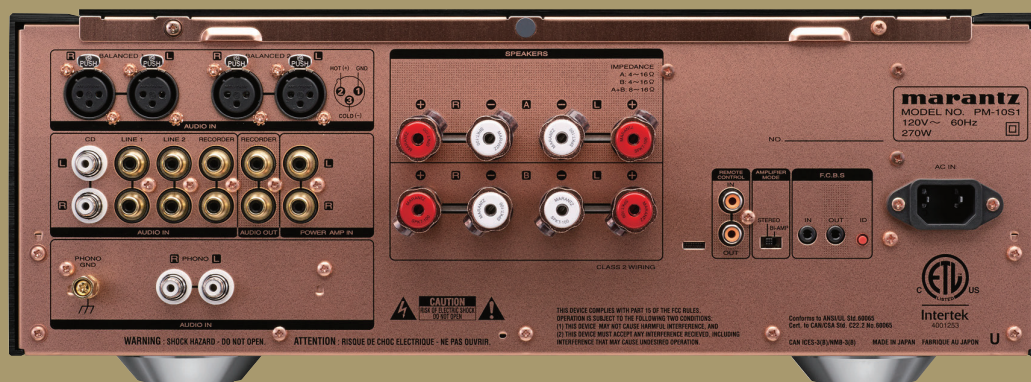
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Limited Warranty

for Reference Series Products -

Marantz America, LLC ("Marantz") warrants the following Marantz Products for the periods indicated:

All Marantz Reference models **sold on or after April 1, 2009** come with a 5 year warranty with the following exceptions:

1. Super Audio CD Players ("SACD")
    a) Optical Pick-ups and/or CD-Drive Mechanisms are only warranted for 3 years. After that time, Marantz will reimburse for the labor required to replace the part for the remaining duration of the 5 year warranty. The customer will be responsible for the actual cost of the part.

    b) All other components are covered for both parts and labor for the 5 year period.

2. Turntables
    a) Needles and/or cartridges carry a 30 day warranty on the part only - no warranty covering labor charges is provided on the needle or cartridge.

    b) Since the part is user replaceable, the purchaser is responsible for any associated labor charges to replace this part.

    c) Defective needles and/or cartridges must be returned to Marantz as proof of defect in order for the replacement to be issued during the warranty window.

What is covered and what is not covered

Except as specified below and above, this warranty covers parts and labor to correct all defects in materials and workmanship. The following are not covered by the warranty:

1. Damage, deterioration, malfunction or failure to meet performance specifications resulting from:

    a) Accidental acts of nature, misuse, abuse, neglect or unauthorized product modification.

    b) Improper installation, removal or maintenance, or failure to follow instructions supplied with the product.

    c) Repair or attempted repair by anyone not authorized by Marantz to repair the product.

    d) Any shipment of the product (claims must be presented to the carrier).

    e) Any cause other than a product defect.

2. Cleaning, initial set-up, check-ups with no defects found, or charges incurred for installation, removal or reinstallation of the product.

3. Any product on which the serial number has been defaced, modified or removed.

4. Batteries.

5. Accessories, including but not limited to, batteries, cables, mounting hardware and brackets, cleaning accessories, antenna and detachable power cords.

6. Warranty is void if purchase was made from anyone other than an authorized Marantz dealer.

Who may enforce the warranty

This warranty may be enforced only by the original purchaser.

What we will pay for

We will pay for all labor and material expenses for items covered by the warranty. Payment of shipping charges is discussed in the next section of this warranty.

How you can get service

1. If your unit needs service, contact Marantz customer service by calling **1-201-762-6666**. We will advise you of the name and location of one or more authorized Marantz service stations from which service can be obtained. Please do not return your unit to the factory without prior authorization.

2. You must pay any shipping charges if it is necessary to ship the product for service. However, if the necessary repairs are covered under warranty, we will pay the return shipping charges to any destination within the United States, its possessions or territories.

3. Whenever warranty service is required, you must present the original dated sales receipt or other proof of date of purchase.

Limitation of implied warranties

All implied warranties, including warranties of merchantability and fitness for a particular purchase, are limited in duration to the length of this warranty.

Exclusion of damages

Marantz liability for any defective product is limited to repair or replacement of the product at Marantz's option. Marantz shall not be liable for damage to other products caused by any defects in Marantz products, damages based upon inconvenience or loss of use of the product, or any other damages, whether incidental, consequential, or otherwise.

How state law relates to the warranty

Some states do not allow limitations on how long an implied warranty lasts and / or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Marantz America, LLC

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Limited Warranty

Marantz America, Inc. ("Marantz") warrants the following Marantz Products for the periods indicated:

1. The following Marantz Audio/Video components, have a 3 year warranty for both Parts & Labor, from the original purchase date:

   Amplifiers, Pre Amplifiers, Pre Amplifier-Processor-Tuners, Integrated Amplifiers, Tuners, Receivers, Blu-ray DVD SA-CD/CD Players/Changers, Learning Remote Control Devices, iPod Docks & DLP front Projectors.

2. **DLP lamps** have a 90 day warranty for parts and labor from the original purchase date.

What is covered and what is not covered

Except as specified below, this warranty covers parts and labor to correct all defects in materials and workmanship. The following are not covered by the warranty:

1. Damage, deterioration, malfunction or failure to meet performance specifications resulting from:
   a) Accident, acts of nature, misuse, abuse, neglect or unauthorized product modification.
   b) Improper installation, removal or maintenance, or failure to follow instructions supplied with the product.
   c) Repair or attempted repair by anyone not authorized by Marantz to repair the product.
   d) Any shipment of the product (claims must be presented to the carrier).
   e) Any cause other than a product defect.

2. Cleaning, initial set-up, check-ups with no defects found, or charges incurred for installation, removal or reinstallation of the product.

3. Any product on which the serial number has been defaced, modified or removed.

4. Batteries.

5. Accessories, including but not limited to, batteries, cables, mounting hardware and brackets, cleaning accessories, antenna and detachable power cords.

6. Warranty is void if purchase was made from anyone other than an authorized Marantz dealer.

Who may enforce the warranty

This warranty may be enforced only by the original purchaser.

What we will pay for

We will pay for all labor and material expenses for items covered by the warranty. Payment of shipping charges is discussed in the next section of this warranty.

How you can get service

1. If your unit needs service, contact Marantz customer service by calling **201-762-6666**. We will advise you of the name and location of one or more authorized Marantz service stations from which service can be obtained. Please do not return your unit to the factory without prior authorization.

2. You must pay any shipping charges if it is necessary to ship the product for service. However, if the necessary repairs are covered under warranty, we will pay the return shipping charges to any destination within the United States, its possessions or territories.

3. Whenever warranty service is required, you must present the original dated sales receipt or other proof of date of purchase.

Limitation of implied warranties

All implied warranties, including warranties of merchantability and fitness for a particular purchase, are limited in duration to the length of this warranty.

Exclusion of damages

Marantz liability for any defective product is limited to repair or replacement of the product at Marantz's option. Marantz shall not be liable for damage to other products caused by any defects in Marantz products, damages based upon inconvenience or loss of use of the product, or any other damages, whether incidental, consequential, or otherwise.

How state law relates to the warranty

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Marantz America, Inc.

100 Corporate Drive,
Mahwah, NJ, 07430-2041
Phone. 201-762-6666

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MARANTZ CANADA LIMITED WARRANTY

Marantz Canada ("Marantz") warrants the following Marantz products for the periods indicated:

3-year warranty for both Parts & Labour, from the original purchase date :

Amplifiers; Pre Amplifiers; Pre Amplifier-Processor-Tuners; Integrated Amplifiers; Tuners; Receivers; Blu-ray DVD Super Audio CD/CD Players/Changers; Learning Remote Control Devices; iPod Docks & DLP front Projectors.

90 day warranty for parts and labour from the original purchase date :

DLP lamps

What is Covered and What is Not Covered

Except as specified below, this warranty covers parts and labor to correct all defects in materials and workmanship. The following are not covered by the warranty:

1. Damage, deterioration, malfunction or failure to meet performance specifications resulting from:
   a) Accident; acts of nature; misuse; abuse; neglect; unauthorized product modification.
   b) Improper installation, removal or maintenance, or failure to follow instructions supplied with the product.
   c) Repair or attempted repair by anyone not authorized by Marantz to repair the product.
   d) Any shipment of the product (claims must be presented to the carrier)
   e) Any cause other than a product defect

2. Cleaning, initial set-up, check-ups with no defects found, or charges incurred for installation, removal or reinstallation of the product.

3. Any product on which the serial number has been defaced, modified or removed.

4. Accessories, including but not limited to, batteries, cables, mounting hardware and brackets, cleaning accessories, antenna and detachable power cords.

5. Warranty is void if purchase was made from anyone other than an authorized Marantz dealer.

Who May Enforce the Warranty

Only the original purchaser may enforce this warranty.

What We Will Pay For

We will pay for all labor and material expenses for items covered by the warranty. Payment of shipping charges is discussed in the next section of this warranty.

How You Can Get Service

1. If your unit needs service, please first contact your dealer to see what support services they do offer. You can also contact one of our Authorized Marantz Service Centers as per our website http://ca.marantz.com/162.asp or contact us directly as below. Please do not return your unit to the factory without prior authorization.

2. You must pay any shipping charges if it is necessary to ship the product for service. However, if the necessary repairs are covered under warranty, we will pay the return shipping charges to any destination within Canada.

3. Whenever warranty service is required, you must present the original dated sales receipt or other proof of date of purchase.

Limitation of Implied warranties

All implied warranties, including warranties of merchantability and fitness for a particular purchase, are limited in duration to the length of this warranty.

Exclusion of damages

Marantz liability for any defective product is limited to repair or replacement of the product at Marantz's option. Marantz shall not be liable for damage to other products caused by any defects in Marantz products, damages based upon inconvenience or loss of use of the product, or any other damages, whether incidental, consequential, or otherwise.

Some provinces do not allow limitations on how long an implied warranty lasts and/or does not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific legal rights, but you may also have other rights, which vary from province to province.

MARANTZ Canada

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1-888-258-9361
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GARANTIE LIMITÉE DE MARANTZ CANADA

Marantz Canada ("Marantz") garantie les produits suivants pour les périodes indiquées :

3 ans de garantie pour les pièces et la main d'œuvre prenant effet à partir de la date d'achat du produit :

Amplificateurs, Préamplificateurs, Pré-ampli-processeurs-syntoniseurs; amplificateurs intégrés, syntoniseurs, récepteurs, Blu-ray DVD Super Audio CD/Lecteur CD/Changeur, télécommandes programmables, Docks iPod et projecteurs avant DLP.

90 jours de garantie pour les pièces et la main d'œuvre prenant effet à partir de la date d'achat du produit :

Lampes DLP

Ce qui est couvert et pas couvert par la garantie :

A l'exception de ce qui est mentionné ci-dessous, cette garantie couvre les pièces et la main d'œuvre afin de réparer tous les défauts de matériel ou de fabrication du produit. Ce qui suit n'est pas couvert par la garantie :

1. Les dommages, détérioration, défauts de fonctionnement, ou le fait de ne pas respecter les spécifications d'exécutions résultant d'un (e) :
   a) accident, acte de la nature, abus, négligence, utilisation impropre ou d'une modification de produit non autorisée ;
   b) installation incorrecte, déplacement, maintenance ou d'un emploi contraire aux instructions fournies avec le produit ;
   c) réparations ou tentatives de réparations par une personne non reconnue par Marantz ;
   d) envoi de produit (les réclamations doivent être présentées au transporteur)
   e) cause autre qu'un défaut de produit.

2. L'entretien, l'installation initiale, toute vérification de produit ou aucun défaut n'a été trouvé, ou tous frais encourus pour l'installation, le déplacement ou la réinstallation du produit.

3. Tout produit dont le numéro de série a été effacé, modifié ou enlevé.

4. Les accessoires incluant mais non limités aux, piles, câbles, matériaux de support, accessoires de nettoyage, antennes et cordons de secteur détachables.

5. La garantie n'est pas valable si l'achat a été fait au Canada chez un revendeur non reconnu par Marantz.

Qui peut faire appliquer la garantie

Seule la personne qui a acheté le produit à l'origine peut faire appliquer la garantie.

Notre paiement

Nous paierons tous les frais de pièces et de main d'œuvre pour tous les produits couverts par la garantie. Le paiement des frais de livraison est abordé dans la section suivante de cette garantie.

Comment obtenir du service

1. Si votre produit Marantz requiert du service, communiquez premièrement avec votre revendeur autorisé afin de connaître s'il peut procéder au service de votre appareil. Vous pouvez aussi consulter la liste des centres de service autorisés sur notre site web au http://ca.marantz.com/162.asp ou contactez nous directement aux coordonnées ci-dessous. Veuillez ne pas retourner votre appareil chez le manufacturier sans autorisation obtenue préalablement.

2. Vous devez payer les frais de livraison dans le cas où votre appareil a besoin d'être envoyé au service des réparations. Toutefois, si les réparations nécessaires sont couvertes par la garantie, nous payerons les frais de retour d'expédition et ce quelle que soit la destination au Canada.

3. Lorsque vous envoyez votre appareil pour un service sous garantie, vous devez joindre une copie de la facture d'achat (ticket ou autre preuve d'achat)

Limites des garanties implicites

Toutes les garanties implicites, y compris les garanties de valeur marchande et spécifique pour un achat particulier, sont limitées dans la durée à la longueur de cette garantie.

Exclusion des dommages

La responsabilité de Marantz est limitée pour n'importe quel produit défectueux en ce qui concerne la réparation ou le remplacement du produit en question. Si des dommages interviennent à des produits autres que ceux de Marantz, Marantz ne sera pas tenu responsable des dits dommages, basés sur le dérangement ou la perte d'utilisation du produit ou tout autre dommage qu'il soit fortuit, indirect ou autre.

Certaines provinces ne permettent pas de limites quant à la durée d'une garantie sous-entendue et/ou ne permettent pas l'exclusion de dommages fortuits ; ainsi les limitations et les exclusions mentionnées ci-dessus peuvent ne pas s'appliquer à votre cas.

Cette garantie vous donne des droits légaux spécifiques, mais vous pouvez aussi avoir d'autres droits qui peuvent varier d'une province à l'autre.

Cette garantie n'est seulement valable qu'au Canada.

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