marantz®  Integrated Amplifier

PM5003

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

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

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

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

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

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

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

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

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

DECLARATION OF CONFORMITY

This device complies with Part 15 of the FCC rules. Operation is subject to the
following conditions: (1) This device may not cause harmful interference, and (2) this
device must accept any interference received, including interference that may cause
undesired operation.

U.S. Responsible Party: Marantz America, Inc.
100 Corporate Drive,
Mahwah, NJ, 07430, U.S.A.
TEL: 201-762-6500

Type of Product: Integrated Amplifier
Model: PM5003
IMPORTANT SAFETY INSTRUCTIONS
READ BEFORE OPERATING EQUIPMENT

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

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

Additional Safety Information!

- This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer’s instructions have been adhered to.
- Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
- When the switch is in the OFF position, the apparatus isn’t completely switched-off from the MAINS.
- The equipment shall be installed near the power supply so that the power supply is easily accessible.
- Do not touch hot areas, especially around the “hot surface mark” during and immediately after use.
- During and immediately after use, this product is hot in areas other than the controls and rear panel connection jacks. Do not touch hot areas, especially around the “hot surface mark” and the top panel. Contact with hot areas can cause burns.
- Do not expose the unit and batteries to excessive heat such as direct sunlight, fire or the like.
- Make a space of about 8 inches (0.2 m) around the unit.
INTRODUCTION

Thank you for selecting the Marantz PM5003 Integrated amplifier for your Audio system. Please read these operating instructions carefully. We recommend that you read the entire user guide before you attempt to connect or operate the amplifier. After you have reviewed the contents of this manual, we suggest that you make all system connections before you attempt to operate the unit.

Accessories check

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

- Remote controller
- AC power cable
- User Guide
- Warranty Card
  USA × 1
  Canada × 1
- Size “AAA” batteries × 2

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**BEFORE USE**

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

*Equipment mains working setting*

Your Marantz product has been prepared to comply with the household power and safety requirements that exist in your area. PM5003 can be powered by 120V AC only.

*Copyright*

Recording and playback of any material may require consent. For further information refer to the following:
- Copyright Act 1956
- Dramatic and Musical Performers Act 1958
- Performers Protection Acts 1963 and 1972
- Any subsequent statutory enactments and orders

*Do not locate in the following places*

To ensure long-lasting use, do not locate the PM5003 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.

*Do not touch hot spots during and Immediately after use*

During and immediately after use, the PM5003 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.

*Keep objects off*

Keep objects off the PM5003. Blocking the vent can result in accident and damage.

**FEATURES**

- Current feedback amplifier for both pre-amplifier and power amplifier
- Wide range, high speed playback for super audio sources
- Improved and optimized the circuit design, parts and pattern wiring
- Input buffer circuit for high S/N ratio and high channel separation
- Active filter type tone control circuit
- Source direct function for purity audio playback
- Phono equalizer amplifier (for MM cartridge)
- System remote control
BEFORE USE

I For use of Remote controller

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

1. Remove the battery cover.

2. Insert the batteries with correct +/- orientation.

3. Close the battery cover until it clicks shut.

I Cautions on handling batteries
Misuse of the batteries can result in electrolyte leakage, rupturing, corrosion, etc. Bear in mind the following points when using batteries:

- Remove the batteries from the remote control unit if the unit is not going to be used for a prolonged period (a month or more).
- Do not use an old battery together with a new one.
- Insert the batteries while ensuring that their + and - poles are properly aligned with the corresponding markings on the remote control unit.
- Batteries with the same shape may have different voltages. Do not use different types of batteries together.
- If electrolyte has leaked, thoroughly wipe the inside of the battery compartment, and then insert new batteries.
- When batteries which are no longer required are to be discarded, follow the directions (regulations) laid down by the local authorities in the area concerned for their disposal.

I Operatable range of Remote controller
Operate the unit with the remote controller within the range of the illustration below.

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

#### FRONT PANEL

1. **POWER SWITCH**
   - Pressing once switches the power on, and pressing again switches it off. If the POWER switch is in the ON position, the power of this unit can be turned ON/OFF by pressing the POWER button on the remote controller.

2. **STANDBY INDICATOR**
   - Lights up when the unit is in the standby mode.

3. **INPUT SELECTOR**
   - Selects the program source to be recorded or played from the PHONO, TUNER, CD, AUX/DVD, RECORDER 1 (CD-R), and RECORDER 2 (MD/TAPE).

4. **SOURCE DIRECT button and indicator**
   - This button turns SOURCE DIRECT mode on and off. When SOURCE DIRECT is on, the center of the button is lit. In the Source Direct mode, the audio signals bypass the tone control circuit.

5. **FUNCTION INDICATORS**
   - One of the indicators lights up to indicate the input source selected with the INPUT SELECTOR.

6. **MUTE INDICATOR**
   - Light up when the MUTE button in the remote controller is pressed.
   - **NOTE:** Be sure to check the VOLUME control setting before pressing this switch to cancel muting. If the muting is canceled while the volume setting is high, the speakers could be damaged.

7. **VOLUME CONTROL**
   - Adjusts the volume level. Turn the knob clockwise to increase the volume.

8. **REMOTE SENSOR**
   - The remote sensor receives the infrared commands from the remote controller. When an infrared signal is received from the remote controller, the remote controller must always be pointed directly at the remote sensor.

9. **BALANCE CONTROL**
   - Turn the knob to correct an unbalanced program source such as stereo broadcast or to vary the output level of the left or right channel. Note that, if the BALANCE control is turned fully in one direction, the sound will not be heard from the speaker on the other side.

10. **LOUDNESS button and indicator**
    - This button turns LOUDNESS ON and OFF. When LOUDNESS is ON, the center of the button is lit. The LOUDNESS compensates for human hearing characteristics by boosting the bass and treble response at low volume levels to achieve a more pleasing tonal balance.

11. **SPEAKERS A/B buttons and indicators**
    - These buttons turn the speaker output to the speakers connected to the SPEAKER SYSTEMS A/B terminals on the rear panel on and off. When speaker output is on, the center of the button is lit. To listen with headphones, turn speaker output off.

12. **BASS AND TREBLE TONE CONTROLS**
    - Adjusts the tone by controlling the levels of two frequency bands. Turn each control toward (+) to enhance the corresponding frequency band, or toward (−) to attenuate it.
    - **BASS:** Adjusts the high frequency level.
    - **TREBLE:** Adjusts the low frequency level.

13. **PHONES JACK**
    - Insert the standard phone plug of the headphones into this jack.
REMOTE CONTROLLER

Using this remote controller, you can control the PM5003 and Marantz CD players, DVD players, tuners, tape decks etc. that have a remote control receptor. The operations possible by remote controller may differ with each component; therefore see the instruction manual that came with the component.

The remote controller buttons are laid out as shown below.

1. POWER ON/STANDBY buttons
   a. MAIN POWER ON button
      Turns the PM5003 power on when it is in the standby mode.
   b. MAIN POWER STANDBY button
      Sets the PM5003 power to the standby mode when it is set to the power-on mode.
   c. SOURCE POWER button
      Switching the mode of a CD player, tuner, CD-R or other Marantz component equipped with a power standby function between power-on and standby is enabled by pressing this button after the FUNCTION SELECT button corresponding to the component has been pressed.
      When this button is pressed after pressing the TUNER button, the tuner’s power is turned on; when it is pressed again, the tuner is set to the standby mode.
      When this button is pressed after pressing the AMP button, the PM5003 is switched from the power-on mode to the standby mode or vice versa.
      * The remote controller cannot be used to turn the primary power of the amplifier ON and OFF.

2. Input selector buttons
   - Input source Buttons
     These buttons are for directly selecting the input source.
     Caution
     Some input jacks of this unit and the corresponding input selector buttons on the remote controller differ, as shown below.

<table>
<thead>
<tr>
<th>The unit</th>
<th>Buttons on the remote controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUX/DVD</td>
<td>AUX, DVD</td>
</tr>
<tr>
<td>RECORDER2 TAPE, MD</td>
<td>TAPE, MD</td>
</tr>
</tbody>
</table>

For the input sources shown in the table above, although the same jacks are used for two types of sources on the unit, separate buttons are provided on the remote controller.

When using the remote controller for operation of a Marantz component connected to the unit, select the input source first, then perform operations.

- INPUT ▲ Button
  This button is for forward-feeding the input source indications to select a desired source. The input source indication, which is displayed on the function indicator on the main frame, is fed to the right.

- INPUT ▼ Button
  This button is for backward-feeding the input source indications to select a desired source. The input source indication, which is displayed on the function indicator on the main frame, is fed to the left.

3. VOLUME adjustment buttons
   - MUTE Button
     This button activates the mute function. Pressing this button again releases the MUTE function.
     The MUTE function can also be released by pressing either the VOLUME + or – buttons.
   - VOLUME + Button
     This button increases the volume level.
   - VOLUME – Button
     This button decreases the volume level.

4. SOURCE DIRECT button
   This button turns SOURCE DIRECT mode ON and OFF.

5. Component operating buttons
   These buttons are for performing basic operations of a Marantz CD player, DVD player, etc. The function of each button changes to match the component selected as the input source using the input selector buttons.
PHONO INPUT JACKS
Connect the output jacks of a turntable to these jacks.

GND (GROUND) TERMINAL
Connect the grounding wire from the turntable to this terminal.

TUNER INPUT JACKS
Connect the output jacks of the tuner to these jacks.

CD PLAYER INPUT JACKS
Connect the output jacks of a Compact Disc player to these jacks.

AUX/DVD INPUT JACKS
These are auxiliary input jacks which can be used to connect the audio outputs of AV components such as DVD players, TV multiplex/stereo audio tuners, VCRs, and laserdisc players.

RECORDER 1 (CD-R) IN/OUT JACKS
Connect the play (output) jacks and record (input) jacks of CD Recorder to these jacks.

RECORDER 2 (MD/TAPE) IN/OUT JACKS
Connect the play (output) jacks and record (input) jacks of MD or tape decks to these jacks.

SPEAKER SYSTEMS A / B TERMINALS
Connect your speaker system(s) to these terminals.

FLASHER IN (Flasher input terminal)
This terminal is to control the unit from another zone. Connect the control signal from a Keypad, etc.

REMOTE CONTROL BUS TERMINALS (REMOTE CONT. BUS)
Another item of audio equipment with a remote control bus terminal can be connected to these terminals by using a special-purpose cable. The bus OUT terminal is used to send signals to another item of equipment. The bus IN terminal is used to receive signals from another item of equipment.

AC OUTLETS
Connect the AC power cord of component such as a DVD or CD player to this outlet. The marked SWITCHED provides power only when the PM5003 is turned on and is useful for components which you use every time you play your system.

Caution:
• In order to avoid potential turn-off thumps, anything plugged into these outlets should be powered up before the PM5003 is turned on.
• The capacity of this AC outlet is 120W. Do not connect devices that consume electricity more than the capacity of this AC outlet. If the total power consumption of the connected devices exceeds the capacity, the protection circuit shuts down the power supply.

AC IN socket
Connect the supplied AC power cable to this socket and a power outlet.
BASIC CONNECTIONS

Connection of tuner
Connect the output jacks of your stereo tuner to the TUNER jacks of this unit.

Connection of compact disc player
Connect the output jacks of your CD player to the CD jacks of this unit.

Connection of turntable
Connect the L (Left) output cord of the turntable to the "L" PHONO jack of this unit, and connect the R (Right) output cord to the "R" PHONO jack. Also be sure to connect the turntable’s grounding wire to the GND jack of this unit. The GND jack does not have to be connected if the turntable is not provided with a grounding wire.

The cartridge of the connected turntable should be of the MM type. To use a turntable with an MC type cartridge, it is required to use a step-up transformer.

Connection of CD recorder etc.
Connect the IN (recording input) jacks of the CD recorder to the RECORDER 1 OUT jacks of this unit, and connect the OUT (playback output) jacks of the CD recorder to the RECORDER 1 IN jacks of this unit.

Connection of MD or tape deck etc.
Connect the IN (recording input) jacks of the MD or tape deck to the RECORDER 2 OUT jacks of this unit, and connect the OUT (playback output) jacks of the MD or tape deck to the RECORDER 2 IN jacks of this unit.
### CONNECTION OF SPEAKER SYSTEMS

This unit is equipped with two sets of **SPEAKER SYSTEM** terminals—**SYSTEM A** terminals and **SYSTEM B** terminals. Usually connect your speaker system to the **SYSTEM A** terminals.

- The speakers in the speaker system should have an impedance between 8 and 16 ohms. If speakers with an impedance of less than 8 ohms are connected, the protection circuitry may be activated during play.
- Connect the Right channel speaker to the **R** terminals, and the Left channel speaker to the **L** terminals.
- The output terminals have positive (+: Red) and negative (–: Black) polarity, and each speaker also has the same polarity (+ and –). When connecting the speaker, be sure to connect the terminals with the same polarity (+ with +, – with –).

#### Wiring speaker cable

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

  - Cut the corting of cable.
  - Peel off the edge of cable.
  - Twist conductors.

Your speaker system must satisfy the below conditions. If it does not, the PM5003’s protective circuit will active, 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 4 ohms or more.
- If using 2 sets of speakers, total speaker impedance must be 8 ohms or more.
OPERATION PROCEDURES

Operate each equipment to start play.

■ To play an analog disc
1. Set the INPUT SELECTOR switch ① to PHONO.
2. Play a disc on the turntable.
3. Adjust the volume with the VOLUME control ② and adjust the tone with the BASS and TREBLE controls ③.

NOTES:
• Set the VOLUME control to the minimum position before placing the stylus on the disc or before replacing the cartridge.
• Do not apply shock or vibration to the turntable during play, as this may cause the stylus to jump and the analog disk to be damaged.
• If the turntable is installed too close to the speakers, the volume may not be able to be increased to a high level due to howling.
• Do not switch the power OFF while the stylus is on the disc surface.

■ To listen to FM/AM broadcasts
1. Set the INPUT SELECTOR switch ① to TUNER.
2. Tune in the desired station on the tuner.
3. Adjust the volume with the VOLUME control ② and adjust the tone with the BASS and TREBLE controls ③.

■ To play a CD
1. Set the INPUT SELECTOR switch ① to CD.
2. Play a CD on the CD player.
3. Adjust the volume with the VOLUME control ② and adjust the tone with the BASS and TREBLE controls ③.

■ To play a DVD or component connected to AUX/DVD jacks
The component connected to the AUX/DVD jacks on the rear panel can be played as follows.
1. Set the INPUT SELECTOR switch ① to AUX/DVD.
2. Play the component connected to the selected input.
3. Adjust the volume with the VOLUME control ② and adjust the tone with the BASS and TREBLE controls ③.

■ Playback
1. Set the INPUT SELECTOR switch ④ to RECORDER 1 (CD-R) or RECORDER 2 (MD/TAPE).
2. Play a prerecorded disc or tape on the recorder.
3. Adjust the volume with the VOLUME control ⑤.
4. Adjust the tone with the BASS and TREBLE controls ⑥.

■ Recording
The playback sound of a program source component, such as a turntable, a tuner, or a CD player, can be recorded on disc or tape as follows.
1. Set the program source component with the INPUT SELECTOR switch ④.
2. Play the program source.
3. Operate the recorder(s) to record the playback sound on disc(s) or tape(s).

■ Copying
You can copy between two recorders connected to PM5003.
1. Select the program source RECORDER 1 with the INPUT SELECTOR switch ④.
2. The RECORDER 1 signal can be recorded onto RECORDER 2.
3. Operate the recorder connected RECORDER 2 to record the playback sound.
4. The program source can be monitored through the speakers.

NOTE:
• You can copy between two recorders (RECORDER 1 and RECORDER 2) vice versa.
**ADVANCED CONNECTION**

**CONNECTING THE REMOTE CONTROL JACKS**

1. You can control other Marantz products through this unit with the remote controller by connecting the REMOTE CONTROL terminals on each unit. The signal transmitted from the remote controller is received by the remote sensor on this unit. Then the signal is sent to the connected device through this terminal. Therefore you need to aim the remote signal only to the unit.

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

Set the REMOTE CONTROL SWITCH on the back of other units (not the PM5003) to “EXT”. (EXTERNAL) to use this feature.

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**Remote control settings**

1. Press and hold the SPEAKER B button on the front panel more than 5 seconds.
2. Front remote sensor is disabled and MUTE indicator blink 3 times.

**NOTES:**
- Be sure to set remote sensor enable when external infrared sensors or similar devises are not connected.
- Otherwise the unit will be unable to receive remote control commands.

3. To restore the original setting, press and hold SPEAKER A button on the front panel more than 5 seconds.
4. Front remote sensor is enabled and RECORDER 2 indicator blink 3 times.
### Remote Controller Operation

**CD**
When the CD button is pressed, the buttons in group 4 function as indicated in the table below. These buttons can only be used when a Marantz CD player is connected to the CD input jacks.

<table>
<thead>
<tr>
<th>Button Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;&lt;&lt;</td>
<td>Skips to the start of the current track</td>
</tr>
<tr>
<td>&gt;&gt;&gt;</td>
<td>Skips to the next track</td>
</tr>
<tr>
<td>▶️</td>
<td>Starts playback</td>
</tr>
<tr>
<td>II</td>
<td>Pauses playback</td>
</tr>
<tr>
<td>P.SCAN/A.TUNE</td>
<td>Not for use</td>
</tr>
<tr>
<td>MENU</td>
<td>Not for use</td>
</tr>
<tr>
<td>▲/TUNE+</td>
<td>Not for use</td>
</tr>
<tr>
<td>▼/TUNE-</td>
<td>Not for use</td>
</tr>
<tr>
<td>▼/PRESET-</td>
<td>Not for use</td>
</tr>
<tr>
<td>▲/PRESET+</td>
<td>Not for use</td>
</tr>
<tr>
<td>ENTER</td>
<td>Not for use</td>
</tr>
<tr>
<td>CAT</td>
<td>Not for use</td>
</tr>
<tr>
<td>BAND</td>
<td>Not for use</td>
</tr>
<tr>
<td>0-9</td>
<td>Inputs the numeric</td>
</tr>
<tr>
<td>CLEAR</td>
<td>Not for use</td>
</tr>
<tr>
<td>MEMO</td>
<td>Not for use</td>
</tr>
<tr>
<td>DISPLAY</td>
<td>Not for use</td>
</tr>
<tr>
<td>PTY</td>
<td>Not for use</td>
</tr>
<tr>
<td>F.DIRECT</td>
<td>Not for use</td>
</tr>
<tr>
<td>T.MODE</td>
<td>Selects the sound mode</td>
</tr>
</tbody>
</table>

**DVD**
When the DVD button is pressed, the buttons in group 4 function as indicated in the table below. These buttons can only be used when a Marantz DVD player is connected to the AUX/DVD input jacks.

<table>
<thead>
<tr>
<th>Button Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;&lt;&lt;</td>
<td>Skips to the start of the current track or chapter</td>
</tr>
<tr>
<td>&gt;&gt;&gt;</td>
<td>Skips to the next track or chapter</td>
</tr>
<tr>
<td>■</td>
<td>Stops playback</td>
</tr>
<tr>
<td>▶️</td>
<td>Starts playback</td>
</tr>
<tr>
<td>II</td>
<td>Pauses playback</td>
</tr>
<tr>
<td>P.SCAN/A.TUNE</td>
<td>Not for use</td>
</tr>
<tr>
<td>MENU</td>
<td>Displays a DVD disc menu</td>
</tr>
<tr>
<td>▲/TUNE+</td>
<td>Move the cursor upward</td>
</tr>
<tr>
<td>▼/TUNE-</td>
<td>Move the cursor downward</td>
</tr>
<tr>
<td>▼/PRESET-</td>
<td>Move the cursor leftward</td>
</tr>
<tr>
<td>▲/PRESET+</td>
<td>Move the cursor rightward</td>
</tr>
<tr>
<td>ENTER</td>
<td>Selects the current menu option</td>
</tr>
<tr>
<td>CAT</td>
<td>Not for use</td>
</tr>
<tr>
<td>BAND</td>
<td>Selects the band</td>
</tr>
<tr>
<td>0-9</td>
<td>Inputs the numeric</td>
</tr>
<tr>
<td>CLEAR</td>
<td>Clears the inputting</td>
</tr>
<tr>
<td>MEMO</td>
<td>Enters the tuner preset memory numbers</td>
</tr>
<tr>
<td>DISPLAY</td>
<td>Displays the disc playback information</td>
</tr>
<tr>
<td>PTY</td>
<td>Not for use</td>
</tr>
<tr>
<td>F.DIRECT</td>
<td>Selects the &quot;frequency direct input&quot;</td>
</tr>
<tr>
<td>T.MODE</td>
<td>Selects the auto stereo mode or mono mode</td>
</tr>
</tbody>
</table>

**Tuner**
When the TUNER button is pressed, the buttons in group 4 function as indicated in the table below. These buttons can only be used when a Marantz tuner is connected to the TUNER input jacks.

<table>
<thead>
<tr>
<th>Button Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;&lt;&lt;</td>
<td>Not for use</td>
</tr>
<tr>
<td>&gt;&gt;&gt;</td>
<td>Not for use</td>
</tr>
<tr>
<td>■</td>
<td>Not for use</td>
</tr>
<tr>
<td>▶️</td>
<td>Not for use</td>
</tr>
<tr>
<td>II</td>
<td>Not for use</td>
</tr>
<tr>
<td>P.SCAN/A.TUNE</td>
<td>Not for use</td>
</tr>
<tr>
<td>MENU</td>
<td>Not for use</td>
</tr>
<tr>
<td>▲/TUNE+</td>
<td>Tuning (frequency) increase</td>
</tr>
<tr>
<td>▼/TUNE-</td>
<td>Tuning (frequency) decrease</td>
</tr>
<tr>
<td>▼/PRESET-</td>
<td>Preset stations forward feed</td>
</tr>
<tr>
<td>▲/PRESET+</td>
<td>Preset stations backward feed</td>
</tr>
<tr>
<td>ENTER</td>
<td>Not for use</td>
</tr>
<tr>
<td>CAT</td>
<td>Not for use</td>
</tr>
<tr>
<td>BAND</td>
<td>Selects the band</td>
</tr>
<tr>
<td>0-9</td>
<td>Inputs the numeric</td>
</tr>
<tr>
<td>CLEAR</td>
<td>Resets counter</td>
</tr>
<tr>
<td>MEMO</td>
<td>Not for use</td>
</tr>
<tr>
<td>DISPLAY</td>
<td>Displays the disc information</td>
</tr>
<tr>
<td>PTY</td>
<td>Not for use</td>
</tr>
<tr>
<td>F.DIRECT</td>
<td>Not for use</td>
</tr>
<tr>
<td>T.MODE</td>
<td>Not for use</td>
</tr>
</tbody>
</table>

**Tape**
When the RECORDER 2 (TAPE) button is pressed, the buttons in group 4 function as indicated in the table below. These buttons can only be used when a Marantz tape deck is connected to the RECORDER 2 (TAPE) jacks.

<table>
<thead>
<tr>
<th>Button Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;&lt;&lt;</td>
<td>Fast backward</td>
</tr>
<tr>
<td>▶️</td>
<td>Fast forward</td>
</tr>
<tr>
<td>■</td>
<td>Stops playback</td>
</tr>
<tr>
<td>▶️</td>
<td>Starts playback</td>
</tr>
<tr>
<td>II</td>
<td>Pauses a tape that's playing</td>
</tr>
<tr>
<td>P.SCAN/A.TUNE</td>
<td>Not for use</td>
</tr>
<tr>
<td>MENU</td>
<td>Not for use</td>
</tr>
<tr>
<td>▲/TUNE+</td>
<td>Not for use</td>
</tr>
<tr>
<td>▼/TUNE-</td>
<td>Not for use</td>
</tr>
<tr>
<td>▼/PRESET-</td>
<td>Not for use</td>
</tr>
<tr>
<td>▲/PRESET+</td>
<td>Not for use</td>
</tr>
<tr>
<td>ENTER</td>
<td>Not for use</td>
</tr>
<tr>
<td>CAT</td>
<td>Not for use</td>
</tr>
<tr>
<td>BAND</td>
<td>Not for use</td>
</tr>
<tr>
<td>0-9</td>
<td>Not for use</td>
</tr>
<tr>
<td>CLEAR</td>
<td>Not for use</td>
</tr>
<tr>
<td>MEMO</td>
<td>Not for use</td>
</tr>
<tr>
<td>DISPLAY</td>
<td>Not for use</td>
</tr>
<tr>
<td>PTY</td>
<td>Not for use</td>
</tr>
<tr>
<td>F.DIRECT</td>
<td>Not for use</td>
</tr>
<tr>
<td>T.MODE</td>
<td>Not for use</td>
</tr>
</tbody>
</table>
In case of trouble or abnormal operation of the unit, check the following before contacting service personnel. What may seem to be a serious malfunction is often the result of a simple operation mistake. If the trouble persists after checking the following, please contact your dealer or nearest Marantz distributor.

* The amplifier does not operate and the indicators do not light.
  1. Check to see if the power cable is inserted properly into the power outlet.

* The indicators light but the amplifier does not operate.
  1. Check to see if the SELECTOR, SPEAKER switches and VOLUME control are properly set.

* Sound is heard from only one of the speakers.
  1. Check to see if the BALANCE control is properly set.
  2. Switch the power of the unit to OFF, and change the connections of the left and right speaker cords. If the sound from the same speaker is still not heard, its connection cord or the speaker itself may be defective.

* Considerable hum noise is heard when the turntable is played.
  1. Check to see if the plugs from the turntable are properly connected to the PHONO jacks.
  2. Connect the grounding wire of the turntable to the GND terminal on the rear panel of this unit. If it has already been connected, try removing it.
  3. Check to make sure that the phono cartridge is attached securely to the tonearm.
  4. Unplug the power cable and plug it in again after inverting the orientation of the blades.

* Remote control operation is not possible.
  1. Is the remote controller’s transmitter pointed correctly at the remote sensor on the front of the Amplifier? Or, is there an obstruction between the transmitter and the remote sensor?
  2. Are the batteries in the remote controller exhausted?
  3. Is there another strong light (from a window, etc.) striking the Amplifier remote sensor?
  4. Is an RCA cord connected to the “REMOTE CONTROL OUT” jack on the Amplifier rear panel?
  5. Is the remote control code different between the main unit and remote controller?
  6. Is the main unit remote sensor disabled?

The remote control unit contains 3 sets of remote control codes, and it can be used to control up to 3 amplifiers in one location. To control a second or third amplifier, select the remote control code as explained below. The selected amplifier can be operated from the remote control.

- When the unit is shipped from the factory, the main unit and remote control are set to AMP1.
  1. AMP2
     To set the remote control to AMP2, hold down both the AMP button 1 and 2 number button 2 on the remote control for at least five seconds.
  2. AMP3
     To set the remote control to AMP3, hold down both the AMP button 1 and 3 number button 2 on the remote control for at least five seconds.
  2. Also set the main unit’s remote control setting to the same setting as the remote control.
  3. To change main unit’s remote control setting, hold down the AMP button 1 and press the DISPLAY button 3 on the remote control: the remote control setting will be indicated by function indicators on the main unit and main unit setting will be changed same setting as remote control.

AMP1 : PHONO indicator blink 3 times.
AMP2 : TUNER indicator blink 3 times.
AMP3 : CD indicator blink 3 times.

NOTES:
- If the main unit is unplugged the mains cord, the remote control setting will revert to AMP1.
- To set the remote control back to AMP1, hold down both the AMP button 1 and 1 number button 2 on the remote control for at least five seconds.
TECHNICAL SPECIFICATIONS

- Power output (20 Hz – 20 kHz simultaneous drive of both channels) ...
- Total harmonic distortion (40 Hz – 20 kHz simultaneous drive of both channels, 8Ω load) ...
- Frequency response (CD, 1 W, 8Ω load) ...
- Dumping factor (8Ω load, 20 Hz – 20 kHz) ...
- Input sensitivity/Input impedance
  - PHONO (MM) ...
  - CD, LINE, TUNER, AUX/DVD, RECORDER ...
- Maximum allowable PHONO input level (1 kHz) ...
- RIAA deviation (20 Hz – 20 kHz) ...
- S/N (IHF-A, 1W, 8Ω load) ...
- PHONO (MM) ...
- CD, LINE, TUNER, AUX/DVD, RECORDER ...
- Tone control
  - Bass (100 Hz) ...
  - Treble (10 kHz) ...
- Power requirement ...
- Power consumption (UL60065) ...
- (4Ω, 45 W x 2 output) ...
- Accessories
  - Remote controller ...
  - AAA batteries ...
  - Detachable AC power cable ...
- Maximum outer dimensions (Amplifier)
  - Width ...
  - Height ...
  - Depth ...
- Weight (Amplifier) ...

Specifications subject to change without prior notice.
Cleaning of equipment external surfaces

The exterior finish of your unit will last indefinitely with proper care and cleaning. Never use scouring pads, steel wool, scouring powders or harsh chemical agents (e.g., lye solution), alcohol, thinner, benzine, insecticide or other volatile substances as these will mar the finish of the equipment. Likewise, never use cloths containing chemical substances. If the equipment get dirty, wipe the external surfaces with a soft, lint-free cloth.

If the equipment becomes heavily soiled:

- dilute some washing up liquid in water, in a ratio of one part detergent to six parts water.
- dip a soft, lint free in the solution and wring the it is damp.
- wipe the equipment with the damp cloth.
- dry the equipment by wiping it with a dry cloth.

Repairs

Only the most competent and qualified service technicians should be allowed to service the factory-trained warranty station personnel have the knowledge and special facilities needed for repair and calibration of this precision equipment.

After the warranty period has expired, repairs will be performed for a charge if the equipment can be returned to normal operation.

In the event of difficulty, refer to your dealer or write directly to the nearest location to you that is listed on the Marantz Authorized Service Station list. If writing, please include the model and serial number of the equipment together with a full description of what you think is abnormal about the equipment's behaviour.