SAFETY PRECAUTIONS

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

CAUTION:
RISK OF ELECTRIC SHOCK DO NOT OPEN

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

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

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

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

IMPORTANT SAFETY INSTRUCTIONS

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.
8. Install in accordance with the manufacturer’s instructions.
9. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
10. Protect the power cord from being walked on or pinched particularly at the points where they exit from the appliance.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel.
15. Batteries shall not be exposed to excessive heat such as sunshine, fire or moisture.

CAUTION:
HOT SURFACE. DO NOT TOUCH.
The top surface over the internal heat sink may become hot when operating this product continuously. Do not touch hot areas, especially around the “Hot surface mark” and the top panel.

PRECAUTION:
SURFACE CHAUDE. NE PAS TOUCHER.
La surface supérieure du dissipateur de chaleur peut devenir chaude si vous utilisez ce produit en continu. Ne touchez pas les zones chaudes, tout particulièrement vers l‘inscription “Hot surface mark” et le panneau supérieur.

PRECAUCIÓN:
SUPERFICIE CALIENTE. NO TOCAR.
La superficie superior del disipador de calor interno podría llegar a calentarse al operar este producto de forma continua. Do not touch hot areas, especially around the “Hot surface mark” and the top panel.

IMPORTANT

FCC INFORMATION (For US customers)

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

2. IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT
This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modification not expressly approved by DENON may void your authority, granted by the FCC, to use the product.

3. NOTE
This product 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 product 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 product does cause harmful interference to radio or television reception, which can be determined by turning the product 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 product into an outlet on a circuit different from that to which the receiver is connected.
• Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for help.

For Canadian customers:
This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CAUTION:
To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet.
The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user.

PRECAUTION:
Pour déconnecter complètement ce produit du courant secteur, débranchez la prise de la prise murale.
La prise secteur est utilisée pour couper complètement l‘alimentation de l’appareil et l’utilisateur doit pouvoir y accéder facilement.

PRECAUCIÓN:
Para desconectar completamente este producto de la alimentación eléctrica, desconecte el enchufe del enchufe de la pared.
El enchufe de la alimentación eléctrica se utiliza para interrumpir por completo el suministro de alimentación eléctrica a la unidad y debe de encontrarse en un lugar al que el usuario tenga fácil acceso.
<table>
<thead>
<tr>
<th>WARNING</th>
<th>Avertissement</th>
<th>Advertencia</th>
<th>Precaución</th>
<th>Emplazamiento de la instalación</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack.</td>
<td>• Eviter des températures élevées. Tenir compte d’une dispersion de chaleur suffisante lors de l’installation sur une étagère.</td>
<td>• Evite altas temperaturas. Permite la suficiente dispersión del calor cuando está instalado en la consola.</td>
<td>• Evite altas temperaturas. Permite la suficiente dispersión del calor cuando está instalado en la consola.</td>
<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
</tr>
<tr>
<td>• Handle the power cord carefully. Hold the plug when unplugging the cord.</td>
<td>• Manipuler le cordon d’alimentation avec précaution. Tenir la prise lors du débranchement du cordon.</td>
<td>• Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía.</td>
<td>• Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía.</td>
<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
</tr>
<tr>
<td>• Keep the unit free from moisture, water, and dust.</td>
<td>• Protéger l’appareil contre l’humidité, l’eau et la poussière.</td>
<td>• Mantenga el equipo libre de humedad, agua y polvo.</td>
<td>• Mantenga el equipo libre de humedad, agua y polvo.</td>
<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
</tr>
<tr>
<td>• Do not obstruct the ventilation holes.</td>
<td>• Débrancher le cordon d’alimentation lorsque l’appareil n’est pas utilisé pendant de longues périodes.</td>
<td>• No obstruya los orificios de ventilación.</td>
<td>• No obstruya los orificios de ventilación.</td>
<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
</tr>
<tr>
<td>• Do not let insecticides, benzene, and thinner come in contact with the unit.</td>
<td>• Ne pas aspirer dans l’appareil des insecticides, du benzène et un diluant avec l’appareil.</td>
<td>• No deje insecticidas, benzene, y diluyentes con el equipo.</td>
<td>• No deje insecticidas, benzene, y diluyentes con el equipo.</td>
<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
</tr>
<tr>
<td>• Do not handle the mains cord with wet hands.</td>
<td>• Ne pas mettre en contact des insecticides, du benzène et un diluant avec l’appareil.</td>
<td>• Nunca desarme o modifique el equipo de ninguna manera.</td>
<td>• Nunca desarme o modifique el equipo de ninguna manera.</td>
<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
</tr>
<tr>
<td>• Do not place objects filled with liquids, such as newspapers, tablecloths or curtains.</td>
<td>• Ne jamais monter ou modifier l’appareil d’une manière ou d’une autre.</td>
<td>• La ventilación no debe quedar obstruida por haberse cubierto las aperturas con objetos como periódicos, mantel o cortinas.</td>
<td>• La ventilación no debe quedar obstruida por haberse cubierto las aperturas con objetos como periódicos, mantel o cortinas.</td>
<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
</tr>
<tr>
<td>• Naked flame sources such as lighted candles should not be placed on the unit.</td>
<td>• Ne pas recouvrir les orifices de ventilation avec des objets tels que des journaux, nappes ou rideaux. Cela entraverait la ventilation.</td>
<td>• Ne deberán colocarse sobre el aparato fuentes inflamables de protección, como velas encendidas.</td>
<td>• Ne deberán colocarse sobre el aparato fuentes inflamables de protección, como velas encendidas.</td>
<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
</tr>
<tr>
<td>• Do not let insecticides, benzene, and thinner come in contact with the unit.</td>
<td>• Ne jamais placer de flamme nue sur l’appareil, notamment des bougies allumées.</td>
<td>• A la hora de deshacerse de las pilas, respete la normativa para el cuidado del medio ambiente.</td>
<td>• A la hora de deshacerse de las pilas, respete la normativa para el cuidado del medio ambiente.</td>
<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
</tr>
<tr>
<td>• Do not place objects filled with liquids, such as newspapers, tablecloths or curtains.</td>
<td>• Veillez à respecter les lois en vigueur lorsque vous jetez les piles usagées.</td>
<td>• No exponer el aparato al goto o salpicaduras de agua cuando se utilice.</td>
<td>• No exponer el aparato al goto o salpicaduras de agua cuando se utilice.</td>
<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
</tr>
<tr>
<td>• Do not place objects filled with liquids, such as newspapers, tablecloths or curtains.</td>
<td>• L’appareil ne doit pas être exposé à l’eau ou à l’humidité.</td>
<td>• No colocar sobre el aparato objetos llenos de líquido, como jarros.</td>
<td>• No colocar sobre el aparato objetos llenos de líquido, como jarros.</td>
<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
</tr>
<tr>
<td>• Do not handle the mains cord with wet hands.</td>
<td>• Ne pas poser d’objet contenant du liquide, par exemple un vase, sur l’appareil.</td>
<td>• Ne maneje el cable de alimentación con las manos mojadas.</td>
<td>• Ne maneje el cable de alimentación con las manos mojadas.</td>
<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
</tr>
<tr>
<td>• Do not handle the mains cord with wet hands.</td>
<td>• Ne pas manipuler le cordon d’alimentation avec les mains mouillées.</td>
<td>• Cuando el interruptor esté en la posición OFF, el equipo no estará completamente desconectado de la alimentación MAINS.</td>
<td>• Cuando el interruptor esté en la posición OFF, el equipo no estará completamente desconectado de la alimentación MAINS.</td>
<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
</tr>
<tr>
<td>• Do not assemble or modify the unit in any way.</td>
<td>• Lorsque l’interrupteur est sur la position OFF, l’appareil n’est pas complètement déconnecté du secteur (MAINS).</td>
<td>• El equipo se instalará cerca de la fuente de alimentación de manera que resulte fácil acceder a ella.</td>
<td>• El equipo se instalará cerca de la fuente de alimentación de manera que resulte fácil acceder a ella.</td>
<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
</tr>
<tr>
<td>• Do not assemble or modify the unit in any way.</td>
<td>• Une distance de plus de 0,3 m est recommandée.</td>
<td>• Para la dispersión del calor adecuadamente, no instale este equipo en un lugar confinado tal como una librería o unidad similar.</td>
<td>• Para la dispersión del calor adecuadamente, no instale este equipo en un lugar confinado tal como una librería o unidad similar.</td>
<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
</tr>
<tr>
<td>• Do not assemble or modify the unit in any way.</td>
<td>• Se recommanda dejar más de 0,3 m alrededor.</td>
<td>• No coloque ningún otro equipo sobre la unidad.</td>
<td>• No coloque ningún otro equipo sobre la unidad.</td>
<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
</tr>
<tr>
<td>• Do not assemble or modify the unit in any way.</td>
<td>• More than 0.3 m is recommended.</td>
<td>• Do not place any other equipment on this unit.</td>
<td>• Do not place any other equipment on this unit.</td>
<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
</tr>
<tr>
<td>• Do not assemble or modify the unit in any way.</td>
<td>• Ne placez aucun matériel sur cet appareil.</td>
<td>• Pour permettre la dissipation de chaleur requise, n’installez pas cette unité dans un espace confiné tel qu’une bibliothèque ou un endroit similaire.</td>
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<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
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<td>• Pour un espace confiné, n’installez pas cet appareil.</td>
</tr>
</tbody>
</table>

For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.

- More than 0.3 m is recommended.
- Do not place any other equipment on this unit.
- For the heat dispersion to be adequate, do not install this equipment in a confined space such as a bookcase or a similar enclosure.
- It is recommended to leave more than 0.3 m away.
- Do not place any other equipment on this unit.
Getting Started

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

Main Features

1. **UHC (Ultra High Current)-MOS single push-pull circuit installed to simultaneously achieve both “subtlety” and “powerfulness”**

   Use of the minimum number of amplifier elements with between 3 and 10 times the normal power capacity produces a combination of both detailed expression and high power. From the pianissimo tones of a soloist emerging softly from silence to the hall-shaking power of a full orchestra, the artist’s emotion is reproduced with exceptional balance.

2. **Direct Mechanical Ground construction that suppresses vibration**

   The vibration-resistant construction has been redesigned to fully eliminate the impact of vibration on sound quality. To enhance transparency and the sound image, measures have been implemented in regard to the installation and positioning of various components, including the power transformer and radiator, so as to effectively eliminate the impact of external and internal vibration.

3. **6-Block Separated Chassis to suppress interference between circuits**

   A twin monaural construction is employed, featuring independent power amp blocks for the L/R channels to obtain an excellent stereo image and eliminate noise and interference between the circuits. The amplifier is also equipped with a 6-block separated construction comprising steel plates of 1.6 mm thickness, providing thorough shielding for separation of different circuits at the signal level. In addition, by strengthening installation of the power amp blocks and incorporating a low center of gravity, the design preserves sound quality by preventing interference among the blocks, and faithfully reproduces the sonic ambience of the original recording.

4. **Remote control support**

   The supplied remote controller can also operate DENON CD players.

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Cautions on Handling

• Before turning the power switch on
  Check once again that all connections are correct and that there are no problems with the connection cables.
  • Power is supplied to some of the circuitry even when the unit is set to the standby mode. When leaving home for long periods of time, be sure to unplug the power cord from the power outlet.
  • About condensation
    If there is a major difference in temperature between the inside of the unit and its surroundings, condensation may form on parts inside the unit, causing the unit to fail to operate properly.
    If this happens, let the unit sit for an hour or two with the power off and wait until there is little difference in temperature before using the unit.

• Cautions on using mobile phones
  Using a mobile phone near this unit may result in noise. If that occurs, move the mobile phone away from the unit when it is in use.

• Moving the unit
  Turn off the power and unplug the power cord from the power outlet.
  Next, disconnect the cables connected to other system units before moving the unit.

• Note that for explanatory purposes the illustrations in these instructions may differ from the actual unit.

About the Remote Control

The supplied remote control unit can be used to control DENON CD players and tuners.

• The remote control may not operate some products.

Inserting the Batteries

1. Remove the rear cover of the remote control.
2. Place two R03/AAA batteries in the battery compartment in the indicated direction.
3. Put the rear cover back on.

NOTE
• Replace the batteries with new ones if the set does not operate even when the remote control is operated close to the unit.
  • The supplied batteries are only for verifying operation.
  • Insert the batteries in the proper direction, following the “Θ” and “Φ” marks in the battery compartment.
  • To prevent damage or leakage of battery fluid:
    • Do not use a new battery with an old one.
    • Do not use two different types of batteries.
    • Do not attempt to charge dry batteries.
    • Do not short-circuit, disassemble, heat or dispose of batteries in a fire.
    • If the battery fluid leaks carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
  • Remove the batteries from the remote control if it will not be used for a long time.
  • Dispose of batteries in accordance with local regulations on battery disposal.

Operating Range of the Remote Control

Operate the remote control while pointing it at the remote sensor.

The set may function improperly or the remote control may not operate if the remote control sensor is exposed to direct sunlight or strong artificial light from a fluorescent or infrared light.

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The supplied remote control unit can be used to control DENON CD players and tuners.

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NOTE

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About the Remote Control

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NOTE

• The set may function improperly or the remote control may not operate if the remote control sensor is exposed to direct sunlight or strong artificial light from a fluorescent or infrared light.
Part Names and Functions

Front Panel

1. Power indicator
   - Indicates the status of the PMA-A100’s as follows:
     - For several seconds after the power is turned on: Red (blinking)
     - Power “ON”: Green
     - Muting: Red (blinking)
     - Standby: Red
     - Power “OFF”: Off

2. Power switch
   - When set to “ON/STANDBY”, the power turns on, and when set to “OFF”, the power turns off.

3. Headphone jack (PHONES)
   - Plug headphones into this jack. (The speaker output turns off when the headphones are plugged in.)
   - To prevent hearing loss, do not raise the volume level excessively when using headphones.

4. BASS control knob
5. TREBLE control knob
6. BALANCE control knob
7. VOLUME control knob
8. REC OUT SELECTOR knob
9. INPUT SELECTOR knob
10. SOURCE DIRECT switch
    - When switched “OFF”, the signal does not pass through the tone adjustment circuitry (bass, treble and balance), resulting in playback of a higher sound quality.
    - When set to “OFF”, the sound can be adjusted to suit your taste.

NOTE
- Functions 1 and 2 are only available when the SOURCE DIRECT switch is “OFF”.
- When the VOLUME control knob is turned just past the “12 o’clock” position (over halfway), the effect of BASS and TREBLE adjustments decreases.
- When the VOLUME control knob is turned to maximum or all the way clockwise, the bases and treble can no longer be adjusted.
- When the POWER AMP DIRECT switch is “OFF”, adjustment of the volume, balance and tone on the main unit has no effect. Adjust the volume on the input device.
- When the POWER AMP DIRECT switch is “ON”, the main unit outputs at maximum volume. Check the output level on the input device before playing it and adjust the volume accordingly.
Part Names and Functions

**Rear Panel**

1. **Input terminals (INPUTS)**
   - Connect your source equipment here.

2. **Power amplifier direct terminals (POWER AMP DIRECT)**
   - When a component is connected to these terminals, it feeds directly to the power amp at the source’s volume level.

3. **Recording output terminals (RECORDER-1 and RECORDER-2)**
   - Connect your recording equipment here.

4. **Speaker system terminals (SPEAKER SYSTEMS)**
   - Connect your speakers here.

5. **AC inlet (AC IN)**
   - Connect the supplied power cord here.
   - Do not use any cord other than the provided power cord.

6. **PRE OUT connectors**
   - Use this to add equipment such as a power amplifier or subwoofer.

7. **SIGNAL GND (ground) terminal**
   - Connect the ground wire from your turntable here.
   - **NOTE**
     - This terminal is not a safety ground.

8. **CARTRIDGE selection switch**
   - Set this switch to the type of record player cartridge to be used MM ( Berkshire ) or MC ( Berkshire )

9. **NOTE**
   - NEVER insert the short-circuiting pin plug into the recording output or PRE OUT connectors. Doing so could result in damage.
   - The PHONO input terminals are equipped with a short pin-plug. Remove this plug to connect a record player.
   - After removing the short pin-plug, keep it in a safe place so you don’t lose it.
   - Signals are output from the PRE OUT connectors even when using headphones.

**Remote Control**

For buttons not explained here, see the page indicated in parentheses ( ).

- **AMPLIFIER POWER button**

- **MUTING button**
  - Press this to mute the sound.
  - The power indicator on the main unit blinks red.
  - Press again for sound.

- **VOLUME buttons**
  - Press these to adjust the volume.

- **INPUT SELECT buttons**
  - Use these to select the input source.
  - (RECORDER-2, RECORDER-1, PHONO, CD, TUNER, LINE-1, LINE-2)

- **Amplifier operating buttons**

- **CD player operating buttons**
  - The supplied remote control can be used to operate compatible CD players (such as the DCD-A100).
  - See the CD player’s manual for operating instructions.

- **Amplifier operating buttons**

- **NOTE**
  - The supplied remote control can be used to operate DENON CD players.
  - When using it, also refer to the operating instructions of the other devices.
  - The remote control may not operate some products.
Connections for all compatible audio signal format is described in this operating instructions. Please select the type of connections corresponding to the equipment you are connecting.

**NOTE**
- Do not plug in the power cord until all connections have been completed.
- When making connections, also refer to the operating instructions of the other components.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Do not bundle power cords with connection cables. Doing so can result in humming or noise.
- Do not turn up the volume without a turntable connected to the PHONO input terminals. Doing so will cause humming or noise.

Connections for all compatible audio signal format is described in this operating instructions. Please select the type of connections corresponding to the equipment you are connecting.

### Connections for all compatible audio signal format

Connections for all compatible audio signal format is described in this operating instructions. Please select the type of connections corresponding to the equipment you are connecting.

**NOTE**
- Do not plug in the power cord until all connections have been completed.
- When making connections, also refer to the operating instructions of the other components.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Do not bundle power cords with connection cables. Doing so can result in humming or noise.
- Do not turn up the volume without a turntable connected to the PHONO input terminals. Doing so will cause humming or noise.

### Preparations

#### Connecting Cables

Select the cables according to the equipment being connected.

<table>
<thead>
<tr>
<th>Audio cables</th>
<th>Analog connections (stereo)</th>
<th>Speaker connections</th>
</tr>
</thead>
<tbody>
<tr>
<td>(White)</td>
<td>(Red)</td>
<td>+</td>
</tr>
<tr>
<td>Stereo pin-plug cable</td>
<td></td>
<td>–</td>
</tr>
</tbody>
</table>

### Connecting the Audio Equipment

**Cautions on playing SA sources:**
When regular speakers not compatible with SA sources (DVD Audio discs, Super Audio CDs and other sources, including treble components above the audible range), set the properties of the player (DVD Audio player, Super Audio CD player, etc.) for use with regular speakers (or amplifiers).

The speakers may be damaged if the volume is set too high when playing SA sources. For instructions on player settings, refer to the operating instructions included with the player.

### Connecting the Speaker Cables

**Cautions on playing SA sources:**
When regular speakers not compatible with SA sources (DVD Audio discs, Super Audio CDs and other sources, including treble components above the audible range), set the properties of the player (DVD Audio player, Super Audio CD player, etc.) for use with regular speakers (or amplifiers).

The speakers may be damaged if the volume is set too high when playing SA sources. For instructions on player settings, refer to the operating instructions included with the player.

**Connecting the Speaker Cables**

Carefully check the left (L) and right (R) channels and + (red) and – (black) polarities on the speakers being connected to the PMA-A100, 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 apply solder to it.
2. Turn the speaker terminal counterclockwise to loosen it.
3. Insert the speaker cable’s core wire to all the way into the speaker terminal.
4. Turn the speaker terminal clockwise to tighten it.

#### Speaker impedance

Use speakers with impedances within the ranges shown below to suit how they are used.

<table>
<thead>
<tr>
<th>Speakers used</th>
<th>Impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td>A or B</td>
<td>4 ~ 16 Ω/ohms</td>
</tr>
<tr>
<td>A and B</td>
<td>8 ~ 16 Ω/ohms</td>
</tr>
</tbody>
</table>

### Protection circuit

The protection circuit is activated in the following situations:
- If the speaker cable wire touches the rear panel or screws or if the speaker cable’s + and – sides are touching
- If the surrounding temperature is extremely high
- If the inside of the amplifier gets hot to extended use at a high output

If this happens, unplug the power cord, then check the connections of the speaker cables and input cables. If the becomes very hot, wait for it to cool off and improve the ventilation around it. After doing this, plug the power cord back in.

If the protection circuit is activated even though there are no problems with the ventilation around the set or in its connections, the set may be damaged. Turn off the power and then contact a DENON service center.
Connecting the Speakers

Speaker Connections

Connecting Players

If humming or other noise is generated when the ground wire is connected, disconnect it.

Bi-wiring Connection

When bi-wiring with bi-wireable speakers, connect the mid and high range terminals to SYSTEM (A) (or SYSTEM (B)), the low range terminals to SYSTEM (B) (or SYSTEM (A)). This enables playback with minimal interference between the high-range speaker unit and the low-range speaker unit.
Connecting Recorders

CD recorder / Tape deck 1

Connecting the Power Cord

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

To household power outlet (AC 120 V, 60 Hz)

Power cord (supplied)

NOTE

Insert the plugs securely. Loose connections will result in the generation of noise.
## Operation

### Preparations Prior to Playing

1. Turn VOLUME all the way down.
2. Set <SOURCE DIRECT> to “OFF”.
3. Set <BASS>, <TREBLE> and <BALANCE> to the center positions.
4. Turn POWER on. The power indicator blinks red for several seconds and then lights green.

### Starting Playback

1. Use INPUT SELECTOR to select the source. The input indicator for the selected source lights.
   
   [Selectable sources]
   - RECORDER-2
   - RECORDER-1
   - PHONO
   - CD
   - TUNER
   - LINE-1
   - LINE-2
2. Play the selected source.
3. Adjust VOLUME to the desired level.
4. Adjust the tone with <BASS>, <TREBLE> and <BALANCE>.
   
   ※ If there is no need to adjust the tone, press <SOURCE DIRECT>.

### Starting Recording

1. Set <REC OUT SELECTOR> to “SOURCE”.
2. Use INPUT SELECTOR to select the source to be recorded.
   
   [Selectable sources]
   - RECORDER-2
   - RECORDER-1
   - PHONO
   - CD
   - TUNER
   - LINE-1
   - LINE-2
3. Set the recorder to the record mode.
4. Start playing the source to be recorded.

### Symbols used to indicate buttons in this manual

- Button located on both the main unit and the remote control
- Button only on the main unit
If a problem occurs 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 components operating properly?

If this unit does not operate properly, check the items listed in the table below. If the problem persist there may be a malfunction. In this case, disconnect the power immediately and contact your retail outlet.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Countermeasure</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>When the power is turned on, the power indicator does not light and no sound is produced.</td>
<td>• The power cord’s plug is not fully plugged in.</td>
<td>• Check that the cord is securely inserted into the PMA-A100’s AC inlet and the wall power outlet.</td>
<td>7</td>
</tr>
<tr>
<td>The power indicator flashes, and no sound is produced.</td>
<td>• A short circuit has occurred, either due to contact between the speaker cable wires or because a wire has come loose from a terminal and is contacting the rear panel of the PMA-A100.</td>
<td>• Unplug the power cord, twist the wires together tightly again, or apply solder and then reconnect them again.</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>• The device's internal temperature has increased because not enough space has not been provided around the device.</td>
<td>• Turn off the power and ensure sufficient space around the device. Turn on the power again after the amplifier has cooled down sufficiently.</td>
<td>1, 5</td>
</tr>
<tr>
<td>The power indicator lights but no sound is produced.</td>
<td>• The speaker cables are not fully connected.</td>
<td>• Connect securely.</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>• The device you want to listen to has not been selected.</td>
<td>• Insure the correct input is selected.</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>• The volume control is set to minimum.</td>
<td>• Set to an appropriate level.</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>• The input cable is not fully connected.</td>
<td>• Connect securely.</td>
<td>6</td>
</tr>
<tr>
<td>Sound is only produced from the left or right speaker(s).</td>
<td>• The speaker cables are not fully connected.</td>
<td>• Connect securely.</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>• The input cable is not fully connected.</td>
<td>• Connect securely.</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>• The left/right balance is off.</td>
<td>• Adjust to a proper balance with the balance control knob.</td>
<td>8</td>
</tr>
<tr>
<td>The left and right of stereo sound is reversed.</td>
<td>• The connections of the speakers or input cables are reversed.</td>
<td>• Check the connections to be sure that left is connected to left, right to right.</td>
<td>6</td>
</tr>
<tr>
<td>Humming sound is heard in the music when playing records.</td>
<td>• The player’s ground wire is not connected.</td>
<td>• Connect securely.</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>• The cables are not fully connected to the PHONO terminals.</td>
<td>• Connect securely.</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>• Influence from a TV or VCR near the player.</td>
<td>• Connect securely.</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>• Try changing the positions in which the devices are installed.</td>
<td>• Adjust to a proper balance with the balance control knob.</td>
<td>6</td>
</tr>
<tr>
<td>Howling is produced along with the music if the volume is too high when playing records.</td>
<td>• The player and speakers are too close together.</td>
<td>• Install the player and speakers as far from each other as possible.</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>• The vibrations from the speakers are being transmitted to the player through the floor.</td>
<td>• Use cushions, etc., to absorb the speakers’ vibrations.</td>
<td>–</td>
</tr>
<tr>
<td>When playing a record, the sound is distorted.</td>
<td>• The needle pressure is incorrect.</td>
<td>• Adjust to a proper needle pressure.</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>• There is dirt on the tip of the needle.</td>
<td>• Check the tip of the needle.</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>• The cartridge is defective.</td>
<td>• Replace the cartridge.</td>
<td>–</td>
</tr>
</tbody>
</table>
Specifications

Power amplifier section

Rated Output Power:
- 2 channel driving (CD -> SP OUT)
- 80 W + 80 W (8 Ω/ohms, 20 Hz - 20 kHz, T.H.D. 0.07 %)

Dynamic power:
- 160 W + 160 W (4 Ω/ohms, DIN, 1 kHz, T.H.D. 0.7 %)

High frequency distortion:
- 0.01 % (Rated output: -3 dB), 8 Ω/ohms, 1 kHz

Output terminals:
- Speaker A or B: 4 - 16 Ω/ohms
- A + B: 8 - 16 Ω/ohms

Input Sensitivity / Input Impedance:
- 0.9 V / 47 kΩ/kohms

Pre amplifier section

Equalizer amplifier output:
- 150 mV (REC OUT terminals)

Input Sensitivity/Input Impedance:
- PHONO (MM): 2.5 mV/47 kΩ/kohms
- PHONO (MC): 200 μV/100 Ω/ohms
- CD, TUNER, LINE-1, LINE-2, RECORDER-1, RECORDER-2:
  - 135 mV/47 kΩ/kohms (SOURCE DIRECT OFF)
  - 135 mV/23 kΩ/kohms (SOURCE DIRECT ON)

RIAA Deviation:
- PHONO: 20 Hz – 20 kHz ±0.5 dB

Maximum Input:
- PHONO (MM): 130 mV/1 kHz
- PHONO (MC): 10 mV/1 kHz

Rated Output:
- PRE OUT: 0.9 V (input CD 135 mV)

Overall performance

SN Ratio (A network):
- PHONO (MM): 89 dB
  (With input terminals short-circuited, 5 mV input signal)
- PHONO (MC): 74 dB
  (With input terminals short-circuited, 0.5 mV input signal)

Tone control (bass):
- BASS: 100 Hz ±6 dB
- TREBLE: 10 kHz ±8 dB

General

Power supply:
- AC 120 V, 60 Hz

Power consumption:
- 310 W
- 0.2 W (Standby)

Maximum external dimensions:
- 17 3/32 (W) x 7 1/8 (H) x 17 29/32 (D) inch (434 (W) x 181 (H) x 455 (D) mm)

Weight:
- 56 lbs 14.07 oz (25.8 kg)

Remote control (RC-1138)

Batteries:
- R03/AAA Type (two batteries)

Maximum external dimensions:
- 1 47/64 (W) x 9 5/64 (H) x 5 9/16 (D) inch (44 (W) x 233 (H) x 22 (D) mm)

Weight:
- 5.01 oz (142 g) (including batteries)

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