



Owner's Manual

□ SAFETY PRECAUTIONS



CAUTION:

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



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

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

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



CAUTION: 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.

surface mark

Hot

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.
- 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.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 10. Only use attachments/accessories specified by the manufacturer.
- 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.
- 12. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13. 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.
- 14. Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

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.

• DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards: EN60065, EN55013, EN55020, EN61000-3-2 and EN61000-3-3. Following the provisions of Low Voltage Directive 2006/95/EC and EMC Directive 2004/108/EC, the EC regulation 1275/2008 and its frame work Directive 2009/125/EC for Energy-related Products (ErP).

> DENON EUROPE Division of D&M Germany GmbH An der Kleinbahn 18, Nettetal, D-41334 Germany



A NOTE ABOUT RECYCLING:

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with the local recycling regulations.

When discarding the unit, comply with local rules or regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal.

This product and the supplied accessories, excluding the batteries, constitute the applicable product according to the WEEE directive.





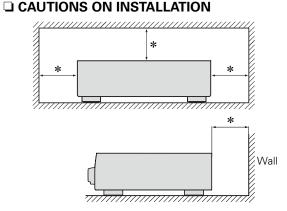


NOTES ON USE

WARNINGS

• Avoid high temperatures.

- Allow for sufficient heat dispersion when installed in a rack.
- Handle the power cord carefully.
- Hold the plug when unplugging the cord.
- Keep the unit free from moisture, water, and dust.
- Unplug the power cord when not using the unit for long periods of time.
- Do not obstruct the ventilation holes.
- Do not let foreign objects into the unit.
- Do not let insecticides, benzene, and thinner come in contact with the unit.
- Never disassemble or modify the unit in any way.
- Ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths or curtains.
- Naked flame sources such as lighted candles should not be placed on the unit.
- Observe and follow local regulations regarding battery disposal.
- Do not expose the unit to dripping or splashing fluids.
- Do not place objects filled with liquids, such as vases, on the unit.
- Do not handle the mains cord with wet hands.
- When the switch is in the OFF (STANDBY) position, the equipment is not completely switched off from MAINS.
- The equipment shall be installed near the power supply so that the power supply is easily accessible.
- Do not keep the battery in a place exposed to direct sunlight or in places with extremely high temperatures, such as near a heater.



- * 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.

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 them, be sure to keep them for future reference.

Contents

Getting started <u>1</u>
Accessories <u>1</u>
Features2
Cautions on handling2

Preparations

Connections4	
Cables used for connections	
Connecting the speakers	
Connecting players	
Connecting a recorder	
Connecting the power cord	

Operations § Operations 9 Before use 9 Starting playback 9 Starting recording 10 Setting the Auto Standby mode 10

Information <u>11</u>
Part names and functions
Front panel······ <u>12</u>
Rear panel······ <u>13</u>
Remote control unit
Explanation terms <u>15</u>
Troubleshooting <u>16</u>
Specifications

Accessories

Check that the following parts are supplied with the product.

Getting Started CD-ROM (Owner's manual) Safety Instructions Service network list Power cord Remote control unit (RC-1179) R03/AAA batteries	
5 S	

Advanced UHC-MOS Single Push-pull Circuit

The new generation UHC-MOS FET is employed for the power amplifier output stage.

The steady current is scaled up from 30 A to 70 A and the instantaneous current from 120 A to 210 A.

The operation stability affected by the temperature fluctuation is improved by using the dual FET selected first stage for the voltage amplifier stage. Furthermore, the phase property is stabilized up to the high range by using the cascade bootstrap circuit.

Power Supply

To make the most of the Advanced UHC-MOS Single Push-pull Circuit, this powerful power supply consists of a LC mount twin transformer, schottky barrier diodes that have 50% more current capacity compared to the conventional ones, and a custom block type capacitor that is tuned for high-quality sound.

Flat Amp

A FET output flat amplifier of a full discrete configuration that has a high-quality local stabilizer power supply is included in the preamplifier section.

Phono Equalizer

Even a user who is particular about analog records is satisfied because the Phono Equalizer circuit for the FET input supports $\rm MM/MC.$

Power Amp Direct

A Power Amp Direct input that can also be used for a standalone power amplifier is equipped, useful for combining with the audio system and home theater system, etc.

Pre Out

A Pre Out connector is equipped that can extend the system's possibility by using another power amplifier to drive a bi-amplifier with a speaker that supports the bi-wiring or adding a subwoofer to upgrade the system.

Mechanical Ground

A chassis that has 6 discrete blocks shielded for each signal level and a foot made of high density materials pursue the Mechanical Ground concept, eliminating the influences caused by external vibration and preventing vibration of the transformer, the internal vibration source, from being transmitted to the amplifier circuit.

Cautions on handling

• Before turning the power 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 going on vacation or 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 the surroundings, condensation (dew) may form on the operating parts inside the unit, causing the unit not to operate properly.

If this happens, let the unit sit for an hour or two with the power turned 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 this 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 connection cables to other system units before moving the unit.

About care

• Wipe the cabinet and control panel clean with a soft cloth.

- Follow the instructions when using a chemical cleaner.
- Benzene, paint thinner or other organic solvents as well as insecticide may cause material changes and discoloration if brought into contact with the unit, and should therefore not be used.



Preparations

Here, we explain the connections and set up methods for this unit.

- Cables used for connections 2 page 4
- Connecting the speakers 2 page 4
- Connecting players 27 page 6
- Connecting a recorder 27 page 7
- Connecting the power cord 2 page 7

Connections

Connections for all compatible audio signal format is described in this operating instructions. Please select the types 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.

Cautions on playing SA sources:

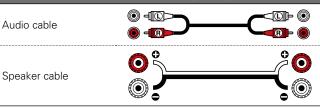
When regular speakers not compatible with SA sources (DVD Audio discs, Super Audio CDs and other sources, including treble components above the audible range), set the properties of the player (DVD Audio player, Super Audio CD player, etc.) for use with regular speakers (or amplifiers).

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.

Cables used for connections

Select the cables according to the equipment being connected.

Audio cable (sold separately)



Connecting the speakers

Connecting the speakers cables

Carefully check the left (L) and right (R) channels and + (red) and – (black) polarities on the speakers being connected to the 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 apply solder to it.
- **2** Turn the speaker terminal counterclockwise to loosen it.



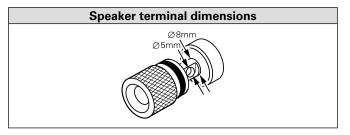
ب

3 Insert the speaker cable's core wire to all the way into the speaker terminal.



Turn the speaker terminal clockwise to tighten it.





NOTE

- Connect the speaker cables so they do not stick out of the speaker terminals. The protection circuit may be activated if the wires touch the rear panel or if the + and sides touch each other (Cprage 5 "Protection circuit").
- Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock.

Speaker impedance

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

Speakers used	Impedance
A or B	4 – 16 Ω
A and B	8 – 16 Ω
Bi-wiring connection	4 – 16 Ω

Protection circuit

The protection circuit is be activated in the following situations:

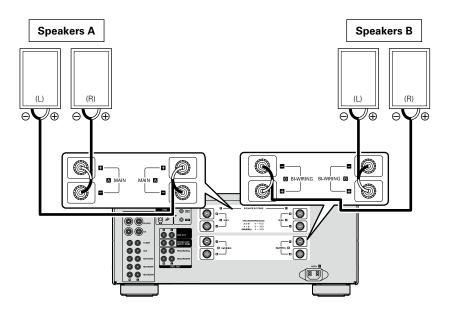
- If the speaker cable wire touches the rear panel or screws or if the speaker cable wire touches the speaker cable's + and sides are touching
- If the surrounding temperature is extremely high
- If the inside of the amplifier gets hot to extended use at a high output

If this happens, unplug the power cord, then check the connections of the speaker cables and input cables. If the unit 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 unit or in connections, the unit may be damaged. Turn off the power and then contact a DENON service center.

Speaker A/B connection

- The same signal is output from the SYSTEM (A) and (B) terminals.
- When only one set of speakers is to be connected, use either the SYSTEM (A) or (B) terminals.

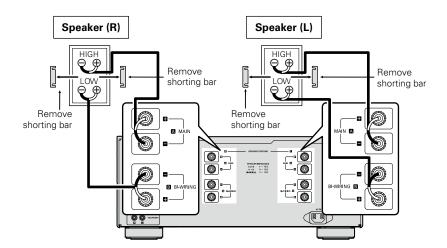


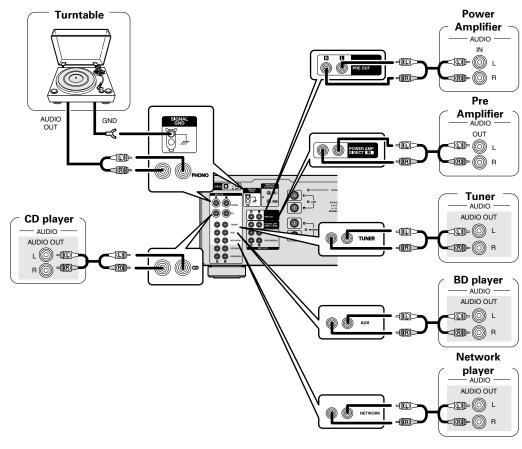
Connecting the speakers

Connecting players

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.



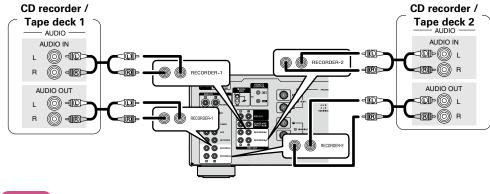


If humming or other noise is generated when the ground wire is connected, disconnect it.

NOTE

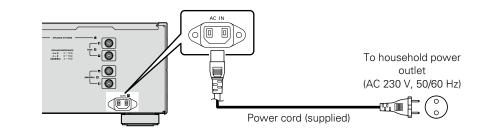
Never insert the short-circuiting pin plug into the Pre-out terminals. Doing so could result in damage.

Connecting a recorder



Connecting the power cord

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



NOTE

- Insert the plugs securely. Loose connections will result in the generation of noise.
- Do not use any cord other than the provided power cord.

NOTE

Never insert the short-circuiting pin plug into the recording output. Doing so could result in damage.



Operations

Here, we explain functions and operations that let you make better use of this unit.

- Before use page 9
- Starting playback 10 page 9
- Starting recording page 10
- Setting the Auto Standby mode 27 page 10

Operations

Before use

- Turn the **VOLUME** on the main unit all the way down.
- Set SOURCE DIRECT on the main unit to "...OFF".

Set BASS, TREBLE and BALANCE on the main unit to the center positions.

Press () on the main unit.

The power indicator blinks red for several seconds, then lights green.

Turning the power off

Press AMPLIFIER ().

The power is set to the standby mode.

0	CD DISC LAYER	SOURCE

Press () on the main unit.

The power indicator turns off, and so does the power.

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 $\mathbf{\Phi}$ on the main unit to turn off the power, or unplug the power cord from the power outlet.

Starting playback

Use INPUT SELECT to select the source to be played. • The input indicator on the main unit for

[Selectable source]

the selected source lights.

RECORDER-2 RECORDER-1 PHONO CD TUNER AUX NETWORK

2 Play the selected source.

3 Adjust VOLUME **A V** to the desired level.

4 Adjust the tone with **BASS**, **TREBLE** and **BALANCE** on the main unit.

 $(\mathbf{\overline{v}})$

VOLUME

MUTING

Ó

- When VOLUME on the main unit is turned just past the "12 o'clock" position (over halfway), the effect of **BASS** and **TREBLE** on the main unit adjustments decreases.
- When VOLUME on the main unit is turned to maximum or all the way clockwise, the bases and treble can no longer be adjusted.

5 If there is no need to adjust the tone, press **SOURCE DIRECT** on the main unit.

- When switched "-ON", 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 "**I**OFF", the sound can be adjusted to suit your taste.

Press MUTING to mute the sound. 6

The power indicator on the main unit blinks red.

• Press again for sound.

You can also use the following operation to select an input source.

Select the input source using the main unit Turn INPUT SELECTOR.

- Turning **INPUT SELECTOR** switches the input source, as shown below.
 - → NETWORK → → AUX → → TUNER → → CD →

Play back devices connected to power amplifier direct connectors

Press POWER AMP DIRECT on the main unit.

- By switching this "-ON", it is possible to play back a device connected to the Power Amp Direct connector on the rear panel. In this case, the input indicator is turned off.
- By switching it "**I**OFF", it is possible to play back the program source selected using the INPUT SELECTOR knob. In this case, the input indicator lights up.

Starting recording

Press INPUT SELECT.

MUTING

2 Set the recorder to the record mode.

3 Start playing the source to be recorded.

NOTE

- The recording source switches **INPUT SELECT** is operated during recording.
- When the **SOURCE DIRECT** switch is "On", no audio signal is output to RECORDER output connectors.

Setting the Auto Standby mode

With the Auto Standby ON, this unit will automatically enter the standby mode after about 30 continuous minutes of stop mode with no operation.

AMPLIFIRER

Ö

• The default setting is "On".

Press and hold **AMPLIFIER** (b) for at least 5 seconds.

- Auto Standby mode is switched between Off and On.
- The Power indicator indicates Auto Standby mode Off/On during Standby, as shown below.

Auto Standby mode "Off" Auto Standby mode "On" "Lit in red" "Unlit"

• The Power indicator flashes in red during Auto Standby mode setting.

If you set the Auto Standby mode while the unit is ON, the unit will enter the standby mode as soon as the Auto Standby mode setting is completed.



Information

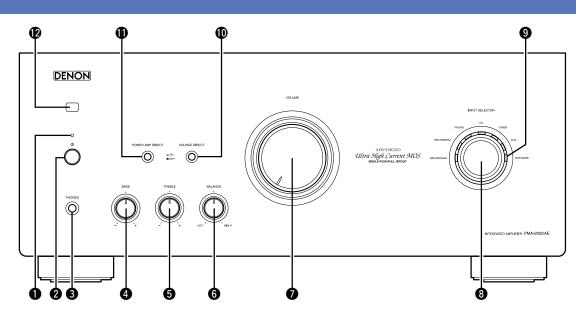
Here, we list various information related to this unit. Please refer to this information as needed.

- Part names and functions
 <u>Page 12</u>
- Troubleshooting
 <u>page 16</u>
- Specifications 27 page 17

Part names and functions

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

Front panel



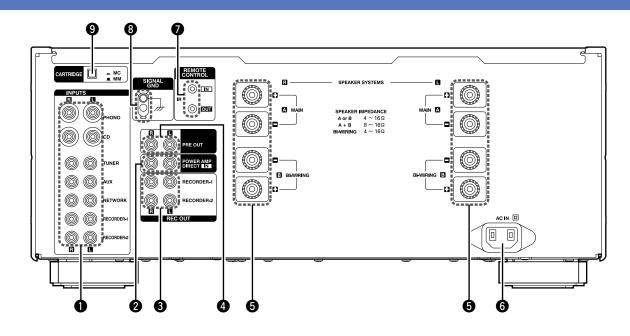
Power indicator (9)	
Indicates the status of the unit's as follows:	
 For several seconds after 	
the power is turned onRed (blinking)	
Power "ON"Green	
• MutingRed (blinking)	
Standby Red	
Power "OFF" ······ Off	
Auto Standby mode "ON"Off	
2 Power operation switch (也)	

Headphone jack (PHONES)

- This jack is used to plug in the headphones. (The Speaker output is turned off when the headphones are plugged.)
- To prevent hearing loss, do not raise the volume level excessively when using headphones.

NOTE

- Functions **4**, **5** and **6** are only available when the **SOURCE DIRECT** switch is set to **"D**OFF".
- When the **VOLUME** control knob is set just beyond the "12 o'clock" position (over halfway), the adjustments that can be made with the **BASS** and **TREBLE** controls is decreased.
- When the **VOLUME** control knob is set to maximum or turned fully clockwise, the base and treble can no longer be adjusted.
- When the **POWER AMP DIRECT** switch is "-ON", adjustment of the volume, balance and tone on the main unit has no effect. You should adjust the volume on the input device.
- When the **POWER AMP DIRECT** switch is "__ON", the main unit is at its maximum volume. Check the output level on the input device before playback, and adjust the volume accordingly.



Power amplifier direct connectors (POWER AMP DIRECT) (6)

Connectors for directly inputting signals to the power amplifier. The volume should be adjusted on the connected device.

3 Input/output connectors (Recordings)

(RECORDER)
PRE OUT connectors (6)
Use this to add such equipment as a power amplifier or subwoofer.

Speaker system terminals (SPEAKER SYSTEMS) (5, 6)

AC inlet (AC IN) (7) REMOTE CONTROL jacks

Extension jack for future use.

OCARTRIDGE selection switch

This switch is set according to the type of player cartridge to be used. Set this switch to MM (\blacksquare) or MC $(_)$ according to the type of cartridge used on your turntable.

NOTE

- This terminal is not a safety ground.
- The SIGNAL GND terminal of this unit is not a safety ground connection. Connect it to reduce noise when noise is excessive. Note that depending on the record player, 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.

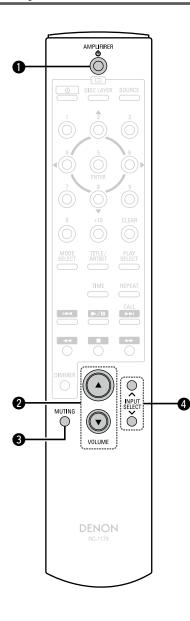
Store the removed short pin-plug in a safe place so as not to lose it.

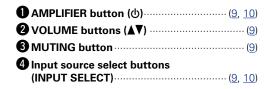
• Signals are outputted from the PRE OUT connectors even when using headphones.

Remote control unit

This section explains the buttons used to playback each source.

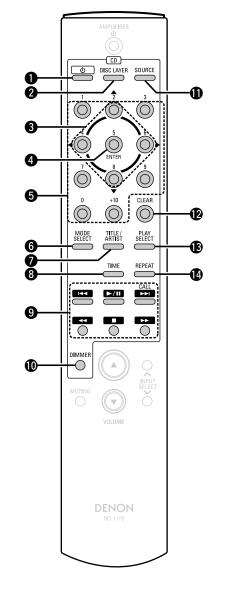
AMP operation





ø

- The included remote control unit can be used to operate DENON CD players.
- When using it, also refer to the operating instructions of the other devices.
- Some products may not be operable.



CD operation

- **①** CD power button (也)
- **2** DISC LAYER button
- **3** Cursor buttons ($\triangle \nabla \triangleleft \triangleright$)
- **4** ENTER button
- **5** Number buttons (0 9, +10)
- **6** MODE SELECT button
- **7** TITLE/ARTIST button
- **8** TIME button

Playback operation buttons

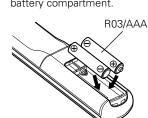
- Reverse-skip/ Forward-skip button (I◄◄, ►►I)
- Play/Pause button (►/III)
- CALL button
- Fast-reversing/Fast-forwarding button

$(\blacksquare \blacksquare, \blacksquare \blacksquare)$

- Stop button (■)
- DIMMER button
- **OVERCE** button
- CLEAR button
- B PLAY SELECT button
- REPEAT button

Inserting the batteries

- Remove the rear lid in the direction of the arrow and remove it.

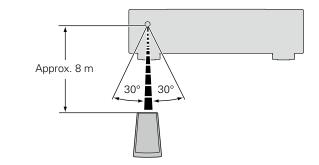


② Load the two batteries properly as indicated by the marks in the battery compartment.

Operating range of the remote control unit

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

Remote control unit



③ Put the rear cover back on.

NOTE

- Insert the specified batteries in the remote control unit.
- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated close to the unit. (The supplied batteries are only for verifying operation. Replace them with new batteries at an early date.)
- When inserting the batteries, be sure to do so in the proper direction, following the \oplus and Θ marks in the battery compartment.
- 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.
- Do not attempt to charge dry batteries.
- Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- Do not keep the battery in a place exposed to direct sunlight or in places with extremely high temperatures, such as near a heater.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- Remove the batteries from the remote control unit if it will not be in use for long periods.
- Used batteries should be disposed of in accordance with the local regulations regarding battery disposal.
- The remote control unit may function improperly if rechargeable batteries are used.

NOTE

- The set may function improperly or the remote control unit may not operate if the remote control sensor is exposed to direct sunlight, strong artificial light from an inverter type fluorescent lamp or infrared light.
- When using 3D video devices that transmit radio communication signals (such as infrared signals etc) between the various units (such as the monitor, 3D glasses, 3D transmitter unit etc), the remote control unit may not operate due to interference from those radio communication signals. If this occurs, adjust the direction and distance of the 3D communication for each unit, and check that the remote control unit operation is not affected by these signals.

Explanation terms

В

Bi-wiring connection

This method of connecting a speaker by using two speaker cables enables separate transmission of treble and bass signals.

This enables playback with minimal interference between the highrange speaker unit and the low-range speaker unit.

Μ

MM/MC cartridge select

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. For switching, use the MM/MC cartridge select button.

Р

Protection circuit

This is a function to prevent damage to components within the power supply when an abnormality such as an overload or excess voltage occurs for any reason.

In this unit, the power indicator blinks and the unit enters standby mode when an abnormality occurs.

S

Source direct

Playback with higher fidelity to the source becomes possible, as input audio signals are output by bypassing the audio quality-control circuits (bass/treble/balance).

Speaker impedance

This is certain-rated resistance of the speaker set to an alternating current and expressed in ohms.

The smaller the impedance, the greater the output. However, load on the amplifier is increased. Use speakers whose impedance is supported by this unit.

Troubleshooting

If a problem occurs, first check the following:

1. Are the connections correct?

2. Is the unit 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 that case, disconnect the power immediately and contact your retail outlet.

Symptom	Cause	Countermeasure	Page
When the power is turned on, the power indicator does not light and no sound is produced.	 The power cord's plug is not fully plugged in. 	• Check if the cord is securely inserted into the wall power outlet.	Ζ
Power switches off suddenly while you are using the unit, the power indicator will flash in red at intervals	• The protection circuit will be activated depending upon the temperature rise in the internal parts of the unit.	 Please switch off power at once, and re-apply the power after the body temperature has fallen sufficiently. Please re-install the unit in a place having good ventilation. 	<u>5</u>
of approximately 1 seconds.			
Power switches off suddenly while	• A speaker with impedance not supported by this unit is used.	• Please use speakers which have the specified impedance.	<u>5</u>
you are using the unit, the power indicator will flash red at intervals of approximately 0.5 seconds.	• The protection circuit has been activated because the core wires of different speaker cables have touched each other or a core wire was slipped out of the terminal and is touching the unit's rear panel.	• Unplug the power cord, then after twisting the core wires together tightly again, or effecting termination treatments etc, please reconnect once again.	<u>4</u>
Even applying power, the power display flashes red at intervals of approximately 0.5 seconds.	• The amplifier circuit has failed.	• Switch off the power and please contact the DENON service adviser.	_

Symptom	Cause	Countermeasure	Page
The power indicator lights but no sound is	• The speaker cables are not fully connected.	Connect securely.	<u>5</u> , <u>6</u>
produced.	• The device you want to listen to has not been selected.	 Insure the correct input is selected. 	<u>9</u>
	• The volume control is set to minimum.	• Set to an appropriate level.	<u>9</u> , <u>12</u>
	• The input cable is not fully connected.	Connect securely.	<u>12</u>
Sound is only produced from the left	• The speaker cables are not fully connected.	Connect securely.	<u>4, 5, 6</u>
or right speaker (s).	• The input cable is not fully connected.	Connect securely.	<u>5</u> , <u>6</u>
	• The left/right balance is off.	• Adjust to a proper balance with the balance control knob.	<u>9</u>
The left and right of stereo sound is reversed.	• The connections of the speakers or input cables are reversed.	• Check the connections to be sure that left is connected to left, right to right.	<u>5</u> , <u>6</u>
Humming sound is heard in the	• The player's ground wire is not connected.	Connect securely.	<u>6</u>
music when playing records.	• The cables are not fully connected to the PHONO terminals.	Connect securely.	<u>6</u>
	• Influence from a TV or VCR near the player.	• Try changing the positions in which the devices are installed.	-
Howling is produced along with the music if the volume is too	• The player and speakers are too close together.	 Install the player and speakers as far from each other as possible. 	_
high when playing records.	• The vibrations from the speakers are being transmitted to the player through the floor.		-
When playing a record, the sound is	• The needle pressure is incorrect.	 Adjust to a proper needle pressure. 	_
distorted.	• There is dirt on the tip of the needle.		_
	• The cartridge is defective.	• Replace the cartridge.	_

Specifications

Power amplifier section

Rated Output Power:

Dynamic power: High frequency distortion: Output terminals:

Input Sensitivity / Input Impedance:

2-channel driving (CD → SP OUT) 80 W + 80 W (8 Ω, 20 Hz – 20 kHz, T.H.D. 0.07 %) 160 W + 160 W (4 Ω, DIN, 1 kHz, T.H.D. 0.7 %) 0.01 % (Rated output: –3 dB), 8 Ω, 1 kHz Speaker A or B: 4 – 16 Ω A + B: 8 – 16 Ω Suited for headphones/stereo headphones P. DIRECT: 0.9 V / 47 kΩ Amplification factor: 29 dB

Pre amplifier section

Equalizer amplifier output: 150 mV (REC OUT terminals) Input Sensitivity/Input Impedance: PHONO (MM): 2.5 mV/47 kΩ PHONO (MC): 200 μV/100 Ω CD, TUNER, AUX, NETWORK, RECORDER-1, RECORDER-2: 135 mV/47 kΩ (SOURCE DIRECT OFF) 135 mV/23 kΩ (SOURCE DIRECT ON) PHONO: 20 Hz – 20 kHz ±0.5 dB **RIAA Deviation:** 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) CD, TUNER, AUX, NETWORK, RECORDER-1, RECORDER-2: 108 dB (input terminals short-circuited) Tone control (bass): BASS: 100 Hz +8 dB TREBLE: 10 kHz ±8 dB General Power supply: AC 230 V, 50/60 Hz Power consumption: 360 W 0.2 W (Standby)

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

Index

r 🖉 🗛

Adjust the tone 9 Auto Standby mode 10

C B

BALANCE 12
BASS
Batteries
Bi-wiring ······6, 15

r C

Cable
Audio cable4
Speaker cable4
Cables used for connections4
Connection
Player6
Power cord7
Recorder ······7
Speaker ······4

r I

INPUT SELECTOR

9

🐨 M

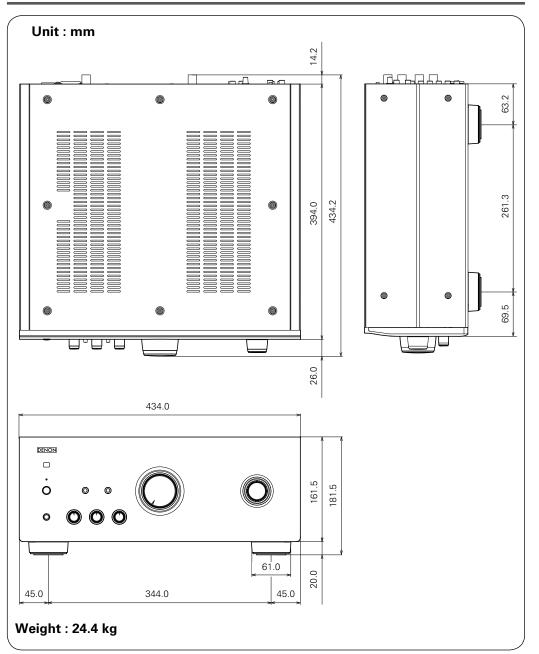
MM/MC cartridge select ······	15
Mute	9

🕼 P

Power cord7	
Protection circuit	

CT R
Remote control unit14
© a S
Source direct
© ₽ T
TREBLE 12
C V

Dimensions





D&M Holdings Inc. 3520 10200 00AD