

DENON

AM-FM STEREO RECEIVER

DRA-500AE

OPERATING INSTRUCTIONS

BEDIENUNGSANLEITUNG

MODE D'EMPLOI

ISTRUZIONI PER L'USO

INSTRUCCIONES DE FUNCIONAMIENTO

GEBRUIKSAANWIJZING

BRUKSANVISNING

☐ SAFETY PRECAUTIONS

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.

• 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 73/23/EEC, 89/336/EEC and 93/68/EEC Directive.

• ÜBEREINSTIMMUNGSERKLÄRUNG
Wir erklären unter unserer Verantwortung, daß dieses Produkt, auf das sich diese Erklärung bezieht, den folgenden Standards entspricht:
EN60065, EN55013, EN55020, EN61000-3-2 und EN61000-3-3.
Entspricht den Verordnungen der Direktive 73/23/EEC, 89/336/EEC und 93/68/EEC.

• DECLARATION DE CONFORMITE
Nous déclarons sous notre seule responsabilité que l'appareil, auquel se réfère cette déclaration, est conforme aux standards suivants:
EN60065, EN55013, EN55020, EN61000-3-2 et EN61000-3-3.
D'après les dispositions de la Directive 73/23/EEC, 89/336/EEC et 93/68/EEC.

• DICHIARAZIONE DI CONFORMITÀ
Dichiaro con piena responsabilità che questo prodotto, al quale la nostra dichiarazione si riferisce, è conforme alle seguenti normative:
EN60065, EN55013, EN55020, EN61000-3-2 e EN61000-3-3.
In conformità con le condizioni delle direttive 73/23/EEC, 89/336/EEC e 93/68/EEC. QUESTO PRODOTTO È CONFORME AL D.M. 28/08/95 N. 548

• DECLARACIÓN DE CONFORMIDAD
Declaramos bajo nuestra exclusiva responsabilidad que este producto al que hace referencia esta declaración, está conforme con los siguientes estándares:
EN60065, EN55013, EN55020, EN61000-3-2 y EN61000-3-3.
Siguiendo las provisiones de las Directivas 73/23/EEC, 89/336/EEC y 93/68/EEC.

• EENVORMIGHEIDSVKLAARING
Wij verklaren uitsluitend op onze verantwoordelijkheid dat dit produkt, waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende normen:
EN60065, EN55013, EN55020, EN61000-3-2 en EN61000-3-3.
Volgens de bepalingen van de Richtlijnen 73/23/EEC, 89/336/EEC en 93/68/EEC.

• ÖVERENSSTÄMMELSESINTYG
Härmed intygas helt på eget ansvar att denna produkt, vilken detta intyg avser, uppfyller följande standarder:
EN60065, EN55013, EN55020, EN61000-3-2 och EN61000-3-3.
Enligt stadgarna i direktiv 73/23/EEC, 89/336/EEC och 93/68/EEC.

☐ NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION / NOTE SULL'USO / NOTAS SOBRE EL USO / ALVORENS TE GEBRUIKEN / OBSERVERA

<ul style="list-style-type: none"> • Avoid high temperatures. Allow for sufficient heat dispersion when installed on a rack. • Vermeiden Sie hohe Temperaturen. Beachten Sie, daß eine ausreichend Luftzirkulation gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird. • Éviter des températures élevées. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. • Evitate di esporre l'unità a temperature alte. Assicuratevi che ci sia un'adeguata dispersione del calore quando installate l'unità in un mobile per componenti audio. • Evite altas temperaturas. Permita la suficiente dispersión del calor cuando está instalado en la consola. • Vermijd hoge temperaturen. Zorg voor een degelijk hitteafvoer indien het apparaat op een rek wordt geplaatst. • Undvik höga temperaturer. Se till att det finns möjlighet till god värmeavledning vid montering i ett rack. 	<ul style="list-style-type: none"> • Handle the power cord carefully. Hold the plug when unplugging the cord. • Gehen Sie vorsichtig mit dem Netzkabel um. Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen. • Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. • Maneggiare il filo di alimentazione con cura. Agite per la spina quando scollegate il cavo dalla presa. • Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía. • Hanteer het netsnoer voorzichtig. Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld. • Hantera nätkabeln varsamt. Håll i kabeln när den kopplas från el-uttaget. 	<ul style="list-style-type: none"> • Unplug the power cord when not using the set for long periods of time. • Wenn das Gerät eine längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker. • Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes. • Disinnestare il filo di alimentazione quando avete l'intenzione di non usare il filo di alimentazione per un lungo periodo di tempo. • Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo. • Neem altijd het netsnoer uit het stopcontact wanneer het apparaat gedurende een lange periode niet wordt gebruikt. • Koppla ur nätkabeln om apparaten inte kommer att användas i lång tid. 	<ul style="list-style-type: none"> • Do not let insecticides, benzene, and thinner come in contact with the set. • Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen. • Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil. • Assicuratevi che l'unità non venga in contatto con insetticidi, benzolo o solventi. • No permita el contacto de insecticidas, gasolina y diluyentes con el equipo. • Laat geen insektenverdelgende middelen, benzine of ververfdunder met dit apparaat in contact komen. • Se till att inte insektsmedel på spraybruk, bensen och thinner kommer i kontakt med apparatens hölje.
<p>* (For sets with ventilation holes)</p> <ul style="list-style-type: none"> • Do not obstruct the ventilation holes. • Die Belüftungsöffnungen dürfen nicht verdeckt werden. • Ne pas obstruer les trous d'aération. • Non coprite i fori di ventilazione. • No obstruya los orificios de ventilación. • De ventilatieopeningen mogen niet worden blokkeerd. • Täpp inte till ventilationsöppningarna. 	<ul style="list-style-type: none"> • Do not let foreign objects in the set. • Keine fremden Gegenstände in das Gerät kommen lassen. • Ne pas laisser des objets étrangers dans l'appareil. • E' importante che nessun oggetto è inserito all'interno dell'unità. • No deje objetos extraños dentro del equipo. • Laat geen vreemde voorwerpen in dit apparaat vallen. • Se till att främmande föremål inte tränger in i apparaten. 	<ul style="list-style-type: none"> • Keep the apparatus free from moisture, water, and dust. • Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern. • Protéger l'appareil contre l'humidité, l'eau et la poussière. • Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere. • Mantenga el equipo libre de humedad, agua y polvo. • Laat geen vochtigheid, water of stof in het apparaat binnendringen. • Utsätt inte apparaten för fukt, vatten och damm. 	<ul style="list-style-type: none"> • Never disassemble or modify the set in any way. • Versuchen Sie niemals das Gerät auseinander zu nehmen oder auf jegliche Art zu verändern. • Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre. • Non smontate mai, nè modificate l'unità in nessun modo. • Nunca desarme o modifique el equipo de ninguna manera. • Nooit dit apparaat demonteren of op andere wijze modifieren. • Ta inte isär apparaten och försök inte bygga om den.
<p>CAUTION:</p> <ul style="list-style-type: none"> • The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc. • No naked flame sources, such as lighted candles, should be placed on the apparatus. • Attention should be drawn to the environmental aspects of battery disposal. • Do not expose the set to dripping or splashing fluids. • No objects filled with liquids, such as vases, shall be placed on the apparatus. <p>ACHTUNG:</p> <ul style="list-style-type: none"> • Die Belüftung sollte auf keinen Fall durch das Abdecken der Belüftungsöffnungen durch Gegenstände wie beispielsweise Zeitungen, Tischtücher, Vorhänge o. Ä. behindert werden. • Auf dem Gerät sollten keinerlei direkten Feuerquellen wie beispielsweise angezündete Kerzen aufgestellt werden. • Bitte beachten Sie bei der Entsorgung der Batterien die geltenden Umweltbestimmungen. 	<p>CAUTION:</p> <ul style="list-style-type: none"> • Das Gerät sollte keinerlei Flüssigkeit, also keinem Tropfen oder Spritzen ausgesetzt werden. • Auf dem Gerät sollten keinerlei mit Flüssigkeit gefüllten Behälter wie beispielsweise Vasen aufgestellt werden. <p>ATTENTION:</p> <ul style="list-style-type: none"> • La ventilation ne doit pas être gênée en recouvrant les ouvertures de la ventilation avec des objets tels que journaux, rideaux, tissus, etc. • Aucune flamme nue, par exemple une bougie, ne doit être placée sur l'appareil. • Veillez à respecter l'environnement lorsque vous jetez les piles usagées. • L'appareil ne doit pas être exposé à l'eau ou à l'humidité. • Aucun objet contenant du liquide, par exemple un vase, ne doit être placé sur l'appareil. <p>PRECAUZIONI:</p> <ul style="list-style-type: none"> • Le aperture di ventilazione non devono essere ostruite coprendole con oggetti, quali giornali, tovaglie, tende e così via. 	<p>PRECAUCIÓN:</p> <ul style="list-style-type: none"> • La ventilación no debe quedar obstruida por hacerse cubierto las aperturas con objetos como periódicos, manteles, cortinas, etc. • No debe colocarse sobre el aparato ninguna fuente inflamable sin protección, como velas encendidas. • A la hora de deshacerse de las pilas, respete la normativa para el cuidado del medio ambiente. • No se expondrá el aparato al goteo o salpicaduras cuando se utilice. • No se colocarán sobre el aparato objetos llenos de líquido, como jarras. 	<p>WAARSCHUWING:</p> <ul style="list-style-type: none"> • De ventilatie mag niet worden belemmerd door de ventilatieopeningen af te dekken met bijvoorbeeld kranten, een tafelkleed, gordijnen, enz. • Plaats geen open vlammen, bijvoorbeeld een brandende kaars, op het apparaat. • Houd u steeds aan de milieuvoorschriften wanneer u gebruikte batterijen wegdoet. • Stel het apparaat niet bloot aan druppels of spatten. • Plaats geen voorwerpen gevuld met water, bijvoorbeeld een vaas, op het apparaat. <p>OBSERVERA:</p> <ul style="list-style-type: none"> • Ventilations bör inte förhindras genom att täcka för ventilationsöppningarna med föremål såsom tidningar, bordssdukar, gardiner osv. • Inga blottade brandkällor, såsom tända ljus, bör placeras på apparaten. • Tank på miljöaspekterna när du bortskaffar batteri. • Apparaten får inte utsättas för vätska. • Inga objekt med vätskor, såsom vaser, får placeras på apparaten.

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 chemical waste.

This product and the accessories packed together constitute the applicable product according to the WEEE directive except batteries.

**HINWEIS ZUM RECYCLING:**

Das Verpackungsmaterial dieses Produktes ist für zum Recyceln geeignet und kann wieder verwendet werden. Bitte entsorgen Sie alle Materialien entsprechend der örtlichen Recycling-Vorschriften.

Beachten Sie bei der Entsorgung des Gerätes die örtlichen Vorschriften und Bestimmungen.

Die Batterien dürfen nicht in den Hausmüll geworfen oder verbrannt werden; bitte geben Sie die Batterien gemäß örtlichen Bestimmungen an den Sammelstellen oder Sondermüllplätzen ab.

Dieses Produkt zusammen mit den Zubehörteilen ist das geltende Produkt der WEEE-Direktive, davon ausgenommen sind die Batterien.

UNE REMARQUE CONCERNANT LE RECYCLAGE:

Les matériaux d'emballage de ce produit sont recyclables et peuvent être réutilisés. Veuillez disposer de tout matériau conformément aux règlements de recyclage locaux.

Lorsque vous mettez cet appareil au rebut, respectez les lois ou réglementations locales.

Les piles ne doivent jamais être jetées ou incinérées, mais mises au rebut conformément aux règlements locaux concernant les déchets chimiques.

Ce produit et les accessoires emballés ensemble sont des produits conformes à la directive DEEE sauf pour les piles.

NOTA RELATIVA AL RICICLAGGIO:

I materiali di imballaggio di questo prodotto sono riutilizzabili e riciclabili. Smaltire i materiali conformemente alle normative locali sul riciclaggio.

Per smaltire l'unità, osservare la normativa in vigore nel luogo di utilizzo.

Non gettare le batterie, né incenerirle, ma smaltirle conformemente alla normativa locale sui rifiuti chimici.

Questo prodotto e gli accessori inclusi nell'imballaggio sono applicabili alla direttiva RAEE, ad eccezione delle batterie.

ACERCA DEL RECICLAJE:

Los materiales de embalaje de este producto son reciclables y se pueden volver a utilizar. Disponga de estos materiales siguiendo los reglamentos de reciclaje de su localidad.

Cuando se deshaga de la unidad, cumpla con las reglas o reglamentos locales.

Las pilas nunca deberán tirarse ni incinerarse. Deberá disponer de ellas siguiendo los reglamentos de su localidad relacionados con los desperdicios químicos.

Este producto junto con los accesorios empacados es el producto aplicable a la directiva RAEE excepto pilas.

EEN AANTEKENING WAT BETREFT HET RECYCLEREN:

Het inpakmateriaal van dit product is recycleerbaar en kan opnieuw gebruikt worden. Er wordt verzocht om zich van elk afvalmateriaal te ontdoen volgens de plaatselijke voorschriften.

Volg voor het wegdoen van de speler de voorschriften voor de verwijdering van wit- en bruingoed op.

Batterijen mogen nooit worden weggegooid of verbrand, maar moeten volgens de plaatselijke voorschriften betreffende chemisch afval worden verwijderd.

Op dit product en de meegeleverde accessoires, m.u.v. de batterijen is de richtlijn voor afgedankte elektrische en elektronische apparaten (WEEE) van toepassing.

EN KOMMENTAR OM ÅTERVINNING:

Produktens emballage är återvinningsbart och kan återanvändas. Kassera det enligt lokala återvinningsbestämmelser. När du kasserar enheten ska du göra det i överensstämmelse med lokala regler och bestämmelser.

Batterier får absolut inte kastas i soporna eller brännas. Kassera dem enligt lokala bestämmelser för kemiskt avfall.

Denna apparat och de tillbehör som levereras med den är de som uppfyller gällande WEEE-direktiv, med undantag av batterierna.

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.

VORSICHT:

Um dieses Gerät vollständig von der Stromversorgung abzutrennen, trennen Sie bitte den Netzstecker von der Wandsteckdose ab.

Die Hauptstecker werden verwendet, um die Stromversorgung zum Gerät völlig zu unterbrechen; er muss für den Benutzer gut und einfach zu erreichen sein.

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.

ATTENZIONE:

Per scollegare definitivamente questo prodotto dalla rete di alimentazione elettrica, togliere la spina dalla relativa presa.

La spina di rete viene utilizzata per interrompere completamente l'alimentazione all'unità e deve essere facilmente accessibile all'utente.

PRECAUCIÓN:

Para desconectar completamente este producto de la alimentación eléctrica, desconecte el enchufe del enchufe de la pared.

El enchufe de la alimentación se utiliza para interrumpir por completo el suministro de alimentación a la unidad y debe de encontrarse en un lugar al que el usuario tenga fácil acceso.

VOORZICHTIGHEID:

Om de voeding van dit product volledig te onderbreken moet de stekker uit het stopcontact worden getrokken.

De netstekker wordt gebruikt om de stroomtoevoer naar het toestel volledig te onderbreken en moet voor de gebruiker gemakkelijk bereikbaar zijn.

FÖRSIKTIHETSMÅTT:

Koppla loss stickproppen från eluttaget för att helt skilja produkten från nätet.

Stickproppen används för att helt bryta strömförsörjningen till apparaten, och den måste vara lättillgänglig för användaren.

Thank you for choosing the DENON DRA-500AE AM-FM Stereo Receiver. This remarkable component has been engineered to provide outstanding high fidelity reproduction of your favorite music sources. As this product is provided with an immense array of features, we recommend that before you begin hookup and operation that you review the contents of this manual before proceeding.

Contents

Getting Started

Accessories	2
Before using	2
Cautions on installation	2
About the remote control unit	3
Inserting the batteries	3
Operating range of the remote control unit	3
Part names and functions	4
Front panel	4
Display	4
Rear panel	5
Remote control unit	5

Connections

Cable indications	6
Speaker connections	6, 7
Connecting a DVD player	7
Connecting a TV/DBS tuner	7
Connecting a CD player	8
Connecting a tape deck or MD recorder	8
Connecting a tape deck or CD recorder	8
Connecting the antenna terminals	9
Connecting the iPod®	10
Connecting the power supply cord	10

Operation

Before operating	11
Playing the input source	11
Turning the sound off temporarily (MUTING)	11
Listening over headphones	11
Switching the speakers	11
Checking the currently playing program source, etc.	12
Switching the brightness of the display	12
Selecting the play mode (PURE DIRECT)	12
Setting the tone control	12
Adjusting the speaker volume	12
Listening to the radio	12
Auto preset memory	12
Auto tuning	13
Manual tuning	13
Preset memory	13
Recalling preset stations	13
RDS (Radio Data System)	14
RDS search	14
PTY search	14
TP search	15
RT (Radio Text)	15
Switching RDS information display	15
Playing the iPod®	16
Setting the iPod Assignment	16
Listening to music	17
Listening to music in the Browse mode	17
Viewing still pictures and videos (only for iPods equipped with the slideshow / video function)	18
Disconnecting the iPod	18
Recording the program source (recording the source currently being monitored)	18
About the memory functions	18
Initialization of the microprocessor	18

Troubleshooting	19
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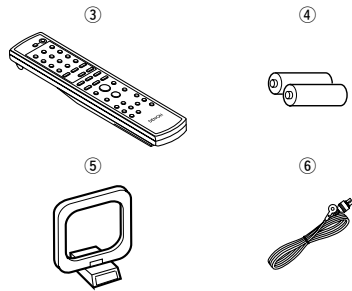
Specifications	20
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Getting Started

Accessories

Check that the following parts are attached in addition to the main unit:

① Operating instructions	1
② Service station list	1
③ Remote control unit (RC-1055)	1
④ R03/AAA batteries	2
⑤ AM loop antenna	1
⑥ FM indoor antenna	1



Before using

Pay attention to the following before using this unit:

- **Moving the unit.**

To prevent short-circuits or damaged wires in the connection cables, always unplug the power supply cord and disconnect the connection cables between all other audio components when moving the unit.

- **Cautions on using mobile phones.**

Using a mobile phone near this unit may result in noise. If so, move the mobile phone away from this unit when it is in use.

- **Before turning the power operation button on.**

Check once again that all connections are correct and that there are not problems with the connection cables. Always set the power operation button to the standby position before connecting and disconnecting connection cables.

- **Store the operating instructions in a safe place.**

After reading the operating instructions, store them in a safe place as they could come in handy in the future.

- **Whenever the power operation button is in the STANDBY state, the unit is still connected to AC line voltage.**

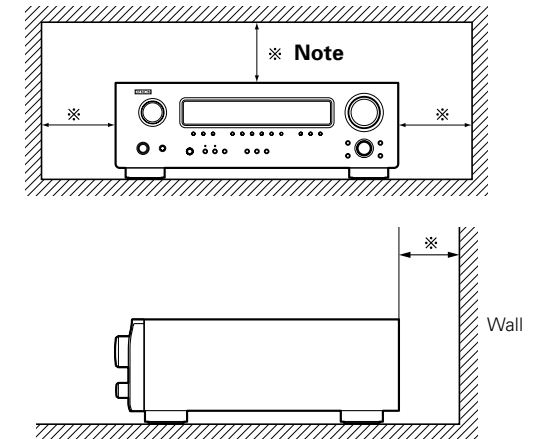
Please be sure to turn off the power switch or unplug the cord when you leave home for, say, a vacation.

- **Note that the illustrations in these instructions may differ from the actual unit for explanation purposes.**

Cautions on installation

Note:

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



Getting Started

Getting Started

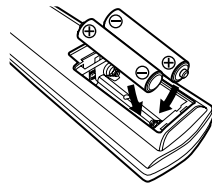
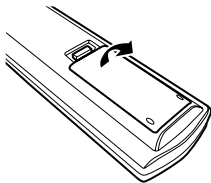
About the remote control unit

In addition to controlling the DRA-500AE, the attached remote control unit (RC-1055) can also be used to control the following products:

- DENON component products

Inserting the batteries

- ① Remove the remote control unit's rear cover.
- ② Set two R03/AAA batteries in the battery compartment in the indicated direction.



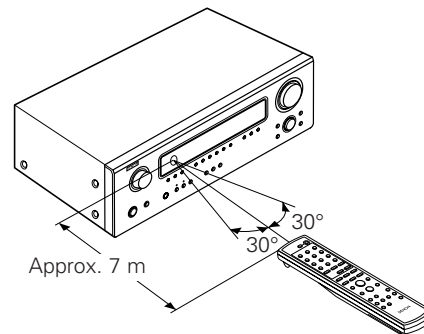
- ③ Put the rear cover back on.

Notes on batteries:

- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated nearby the unit. (The attached batteries are only for verifying operation.)
- When inserting the batteries, be sure to do so in the proper direction, following the “+” and “-” 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 short-circuit, disassemble, heat or dispose of batteries in flames.
- Remove the batteries from the remote if it will not be in use for long periods.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- When replacing the batteries, have the new batteries ready and insert them as quickly as possible.

Operating range of the remote control unit

- Point the remote control unit at the remote sensor when operating it.
- The remote control unit can be used from a distance of approximately 7 meters, at a horizontal angle of up to 30° with respect to the sensor.



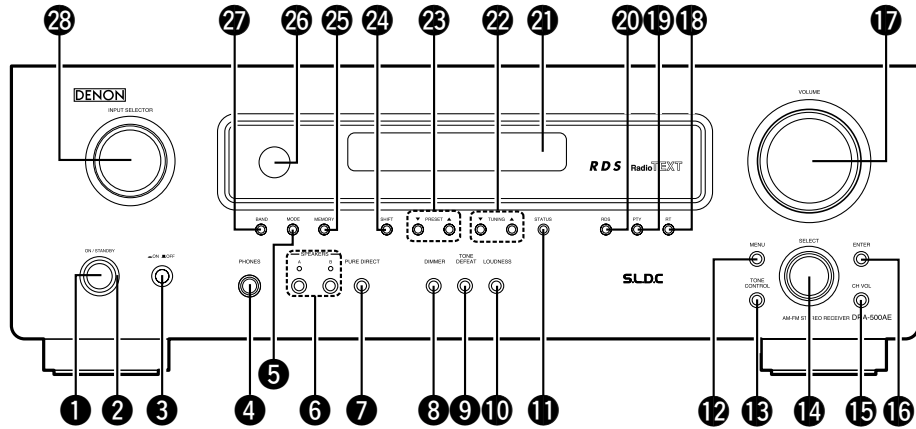
NOTE:

- It may be difficult to operate the remote control unit if the remote sensor is exposed to direct sunlight or strong artificial light.

Part names and functions

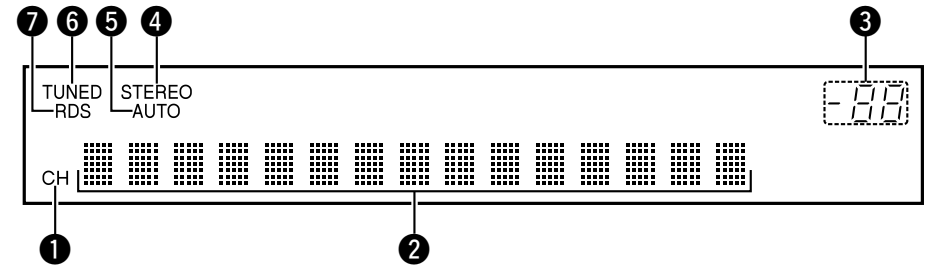
For details on the functions of these parts, refer to the pages given in parentheses ().

Front panel



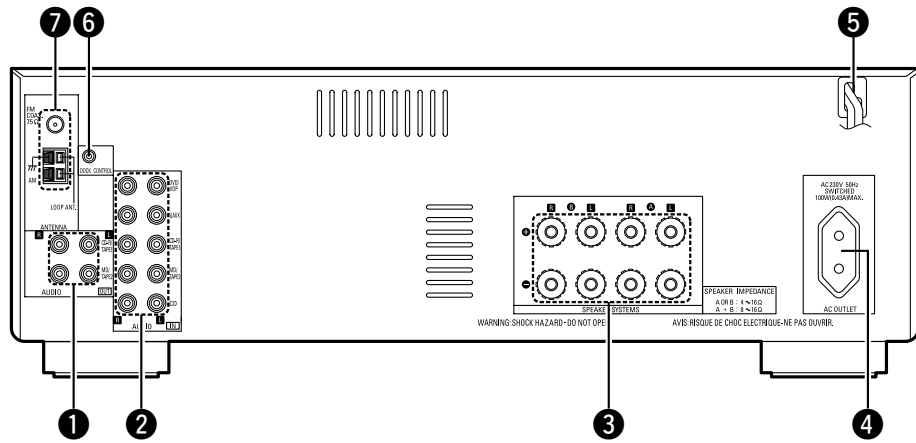
- ① Power operation button (ON/STANDBY).....(11)
- ② Power indicator(11)
- ③ Power switch(11, 18)
- ④ Headphones jack (PHONES)(11)
- ⑤ MODE button(13, 18)
- ⑥ SPEAKER buttons.....(11)
- ⑦ PURE DIRECT button.....(12)
- ⑧ DIMMER button(12)
- ⑨ TONE DEFEAT button.....(12)
- ⑩ LOUDNESS button(12)
- ⑪ STATUS button(12)
- ⑫ MENU button.....(16, 17)
- ⑬ TONE CONTROL button.....(12)
- ⑭ SELECT knob.....(12, 17)
- ⑮ CH VOL button.....(12)
- ⑯ ENTER button.....(16 ~ 18)
- ⑰ VOLUME control knob.....(11)
- ⑱ RT button.....(15)
- ⑲ PTY button(14)
- ⑳ RDS button.....(14)
- ㉑ Display
- ㉒ TUNING buttons (▲, ▼)(13)
- ㉓ PRESET buttons.....(13, 14)
- ㉔ SHIFT button(13)
- ㉕ MEMORY button(13, 17)
- ㉖ Remote control sensor.....(3)
- ㉗ BAND button.....(13)
- ㉘ INPUT SELECTOR knob(11)

Display



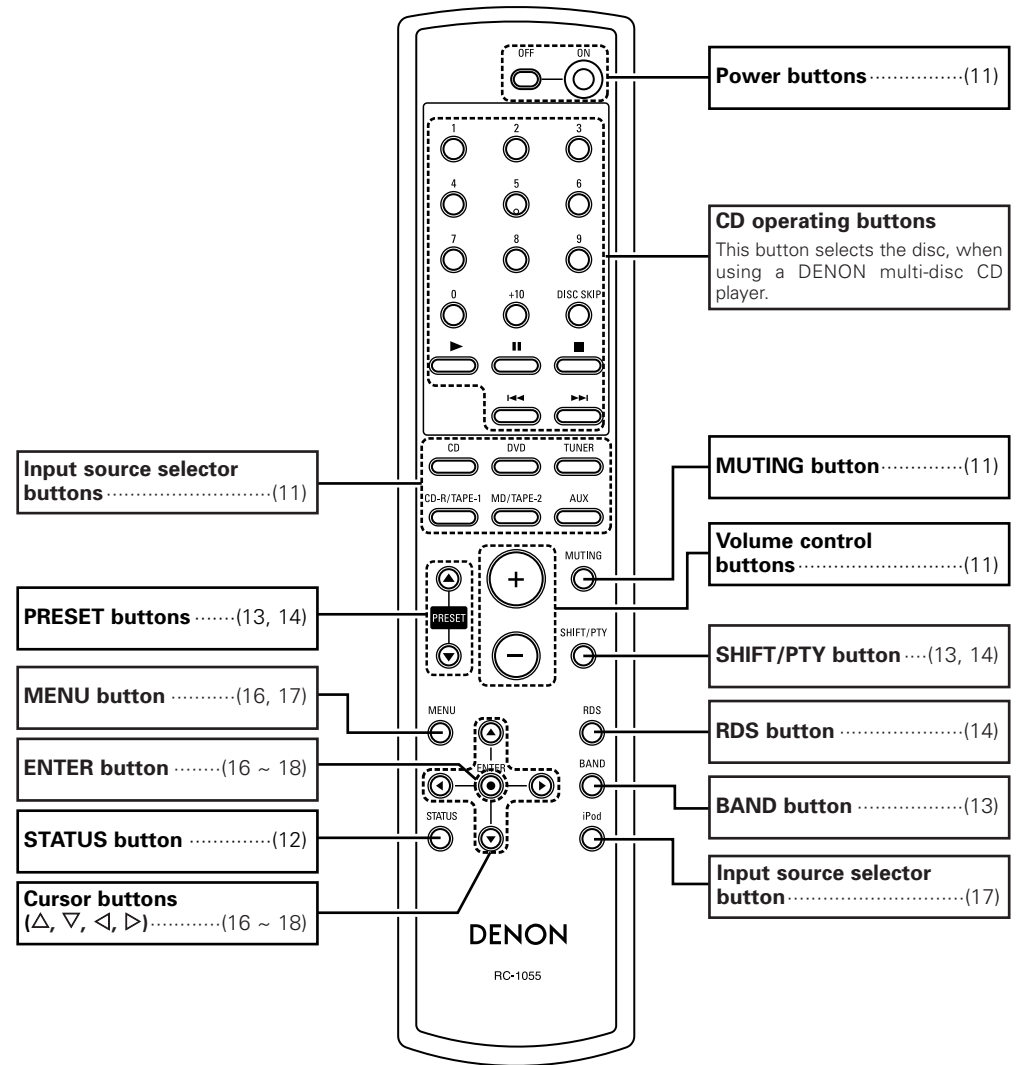
- ① Signal channel indicator
Lights when the preset channel is displayed at ②.
- ② Information display
- ③ Volume indicator
This displays the volume level.
- ④ STEREO indicator
This lights when an FM stereo broadcast has been received.
- ⑤ AUTO indicator
This lights when the broadcast station is selected in the AUTO tuning mode.
- ⑥ TUNED indicator
This lights when an FM/AM broadcast has been received.
- ⑦ RDS indicator
This lights when an RDS broadcast has been received.

Rear panel



- 1 AUDIO OUT terminals.....(8)
- 2 AUDIO IN terminals.....(7, 8)
- 3 Speaker terminals.....(7)
- 4 AC outlet.....(10)
- 5 Power supply cord.....(10)
- 6 DOCK CONTROL jack.....(10)
- 7 ANTENNA terminals.....(9)

Remote control unit

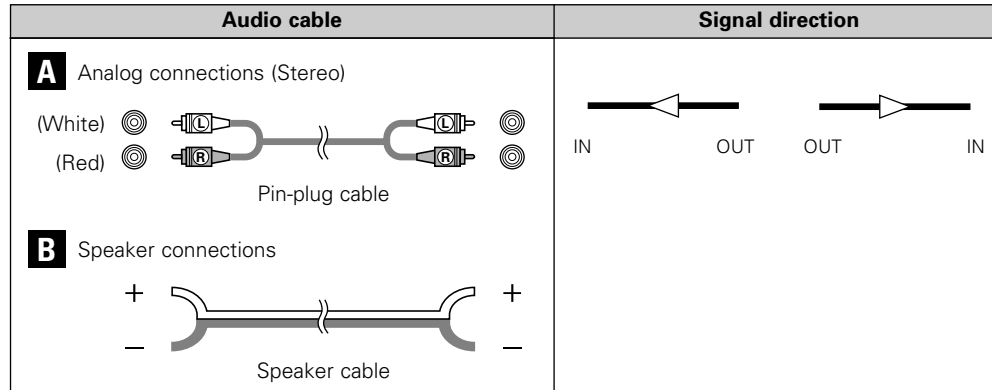


- 11 Input source selector buttons.....(11)
- 11 Power buttons.....(11)
- 11 CD operating buttons
This button selects the disc, when using a DENON multi-disc CD player.
- 11 Muting button.....(11)
- 11 Volume control buttons.....(11)
- 11 PRESET buttons.....(13, 14)
- 11 MENU button.....(16, 17)
- 11 ENTER button.....(16 ~ 18)
- 11 STATUS button.....(12)
- 11 Cursor buttons (Δ, ∇, ◀, ▶).....(16 ~ 18)
- 11 SHIFT/PTY button.....(13, 14)
- 11 RDS button.....(14)
- 11 BAND button.....(13)
- 11 Input source selector button.....(17)

Connections

Cable indications

The hookup diagrams on the subsequent pages assume the use of the following optional connection cables (not supplied).



NOTE:

- Do not plug in the power supply 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 together with speaker cables. Doing so could result in humming or noise.

Speaker connections

Connect the speaker terminals with the speakers making sure that like polarities are matched (⊕ with ⊕, ⊖ with ⊖).

NOTE:
When making connections, take care that none of the individual conductors of the speaker cable come in contact with adjacent terminals, with other speaker cable conductors, or with the rear panel and screws.
NEVER touch the speaker terminals when the power is on. Doing so could result in electric shocks.

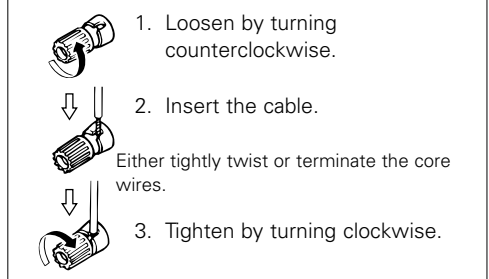
Speaker impedance

Speaker	Impedance
A, B	4 ~ 16 Ω/ohms
A+B	8 ~ 16 Ω/ohms

Note on speaker impedance

When using speakers with an impedance below the designated value (for example 4 Ω/ohms), playing for long periods of time with the volume high could cause the temperature to rise, activating the protection circuit. When the protection circuit is activated, the output to the speakers is cut off and the power indicator blinks. If this happens, unplug the power cord, wait for the set to cool off and improve ventilation around the unit. Also check the wiring of the input cables and the speaker cables. After doing this, plug the power cord back in and turn the unit's power back on. If the protection circuit is activated again even though there are no problems with the wiring or the ventilation around the unit, switch off the power and contact a DENON service center.

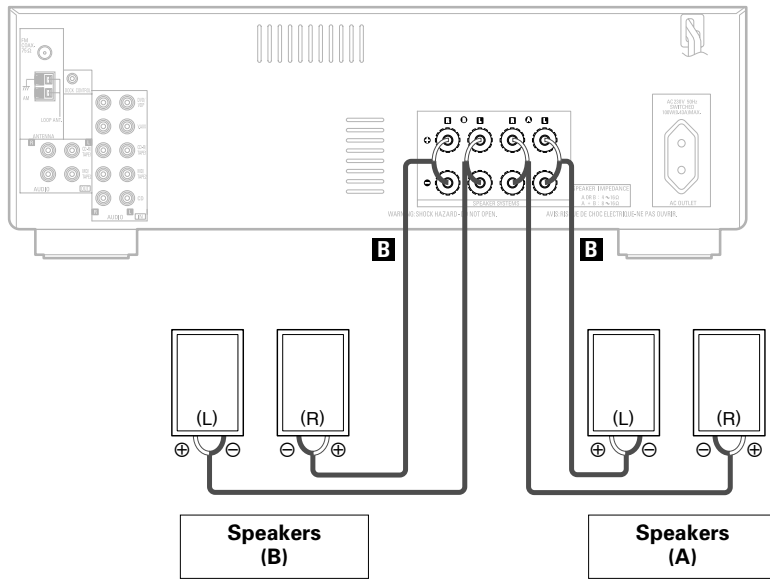
Connecting the speaker cables



Connections

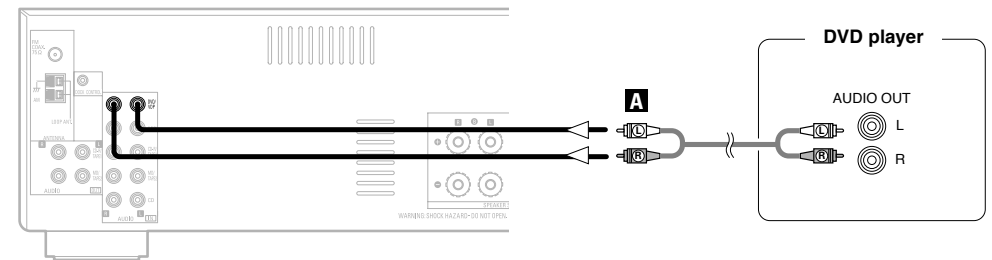
☐ Connections

When making connections, also refer to the operating instructions of the other components.



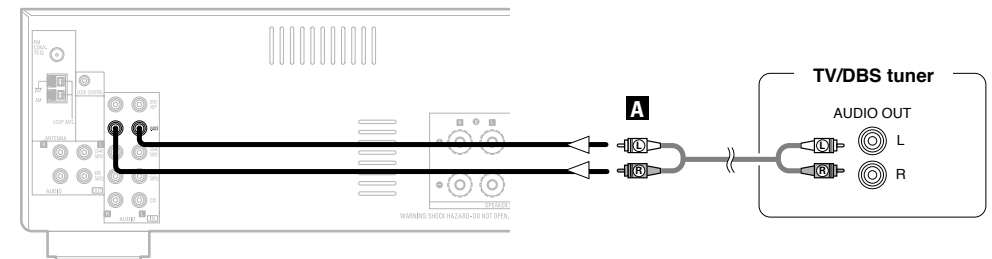
Connections

Connecting a DVD player



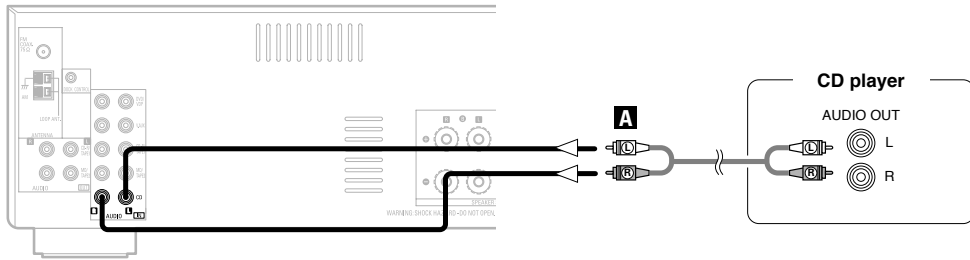
- Connect a non-DVD video disc player (such as a laser disc, VCD/SVCD, or future high definition disc player) to the DVD/VDP terminals in the same way.

Connecting a TV/DBS tuner



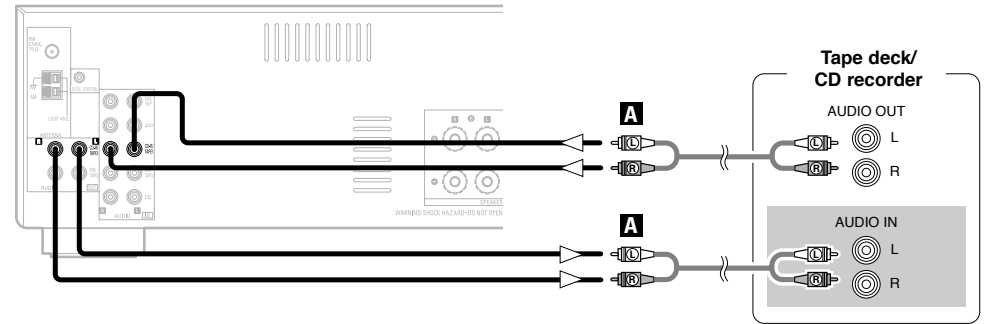
Connections

Connecting a CD player

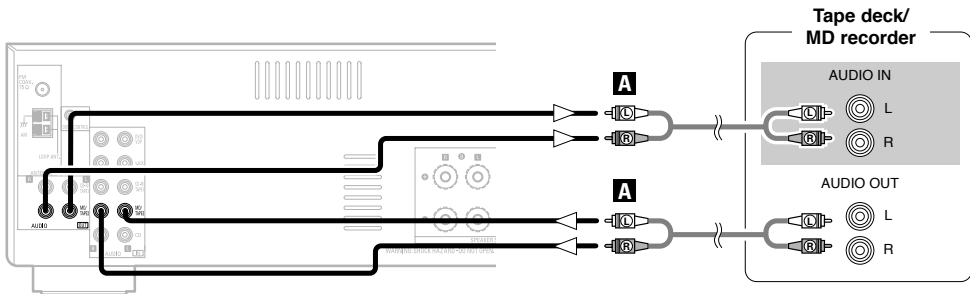


Connections

Connecting a tape deck or CD recorder



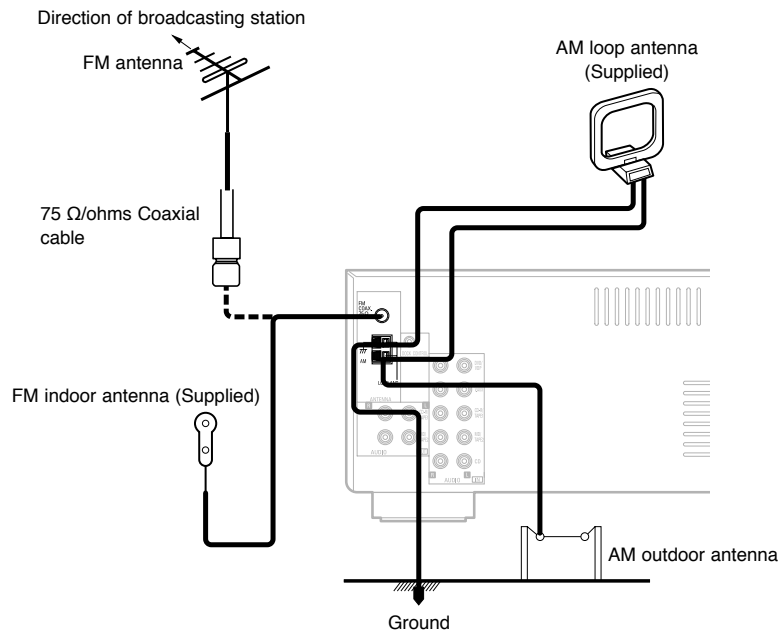
Connecting a tape deck or MD recorder



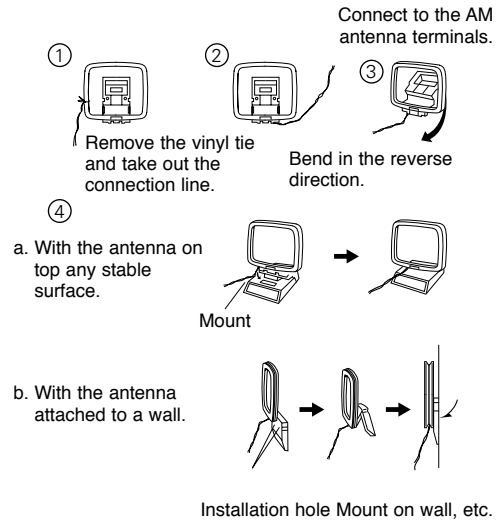
Connections

Connecting the antenna terminals

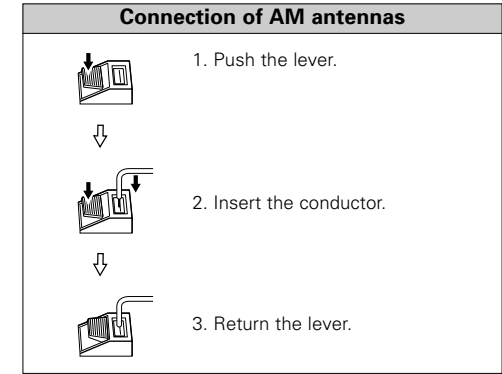
An FM antenna cable plug can be connected directly.



AM loop antenna assembly



Connections



NOTE:

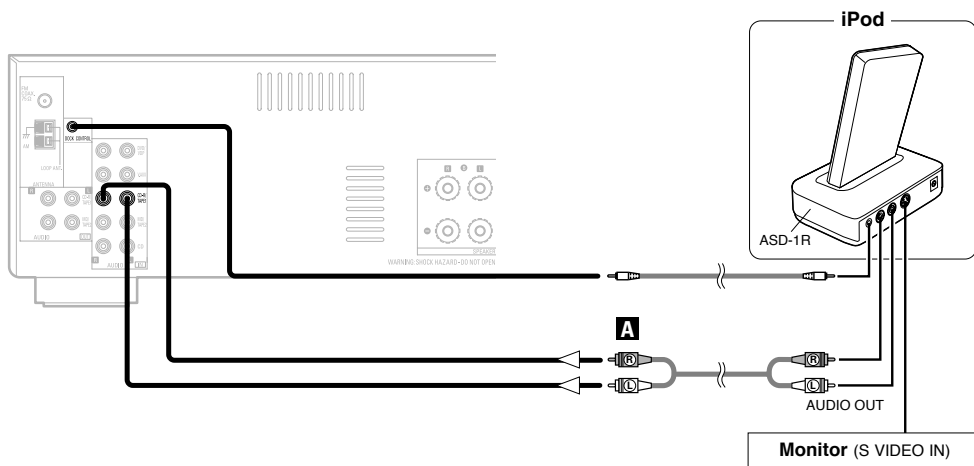
- Do not connect two FM antennas simultaneously.
- Even if an external AM antenna is used, do not disconnect the AM loop antenna.
- Make sure the AM loop antenna lead terminals do not touch metal parts of the panel.

Connections

Connecting the iPod®

When using an iPod, you must connect the Control Dock for iPod (ASD-1R, sold separately) and the DOCK CONTROL jack on the DRA-500AE with a mini-jack and assign the iPod to any AUDIO terminal(s). The diagram below shows an example of connections for when the iPod is assigned to the CD-R/TAPE1 terminals.

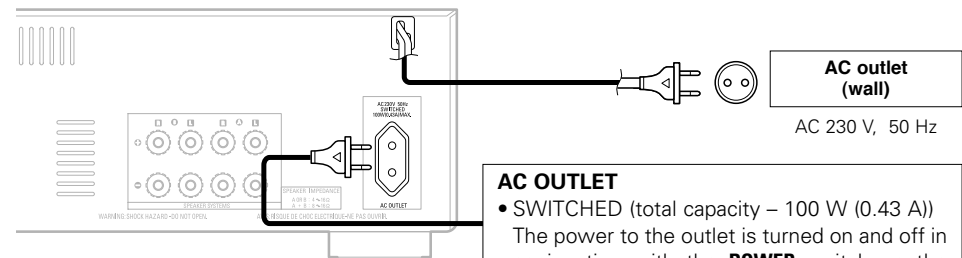
- * For instructions on assigning the iPod to a specific terminal, see "Setting the iPod Assignment" (page 16).
- * For instructions on playing the iPod, see "Playing the iPod" (page 16).



- The optional standard Control Dock for iPod is DENON ASD-1R sold separately.

Connections

Connecting the power supply cord



AC OUTLET

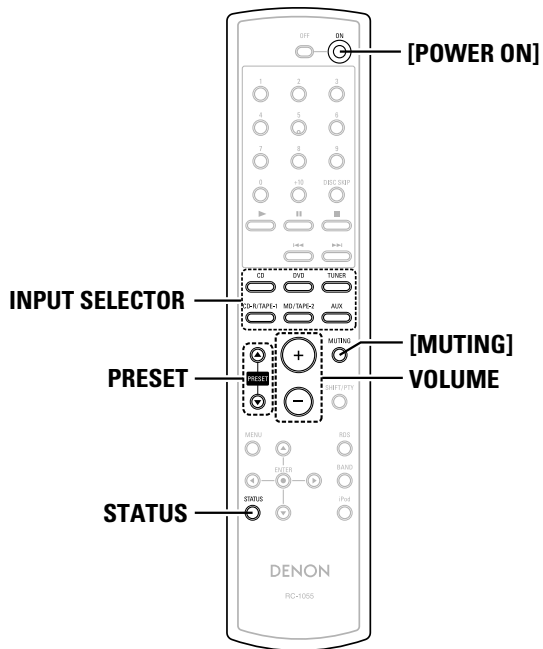
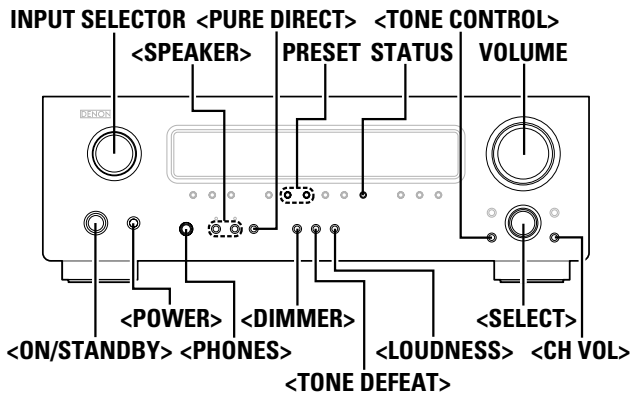
- **SWITCHED** (total capacity – 100 W (0.43 A))

The power to the outlet is turned on and off in conjunction with the **POWER** switch on the main unit, and when the power is switched between on and standby from the remote control unit.

No power is supplied from this outlet when this unit's power is at standby. Never connect equipment whose total power consumption exceeds 100 W (0.43 A).

NOTE:

- Insert the plugs securely. Incomplete connections will result in the generation of noise.
- Only use the AC OUTLET for audio equipment. Never use it for hair driers, monitors or other electrical appliances.



About the button names in this explanation
 < > : Buttons on the main unit
 [] : Buttons on the remote control unit
Button name only :
 Buttons on the main unit and remote control unit

Operation

Before operating

- 1 Press **<POWER>**.
 - ON:**
The power indicator lights red.
 - OFF:**
The power turns off and the indicator is off.
- 2 Press **<ON/STANDBY>** or **[POWER ON]**.
 - The power indicator blinks green and the power turns on.

Playing the input source

- 1 Use **INPUT SELECTOR** to select the input source you want to play.
- 2 Start playback on the selected component.
 - ※ For operating instructions, refer to the component's manual.
- 3 Use **VOLUME** to adjust the volume.
 - The volume level is displayed on the volume level display.

Turning the sound off temporarily (MUTING)

- Press **[MUTING]**.
- Canceling MUTING mode:
To cancel the muting mode, either press **[MUTING]** or adjust the volume.

Listening over headphones

- Connect the headphones to **<PHONES>**.
- No sound is produced from the speakers automatically.

NOTE:

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

Switching the speakers

- Press **<SPEAKER>** to turn the corresponding speaker pair on.

Operation

Checking the currently playing program source, etc.

Press STATUS.

- The current program source and various settings are indicated on the display.

Switching the brightness of the display

Press <DIMMER>.

- ※ The brightness of the display can be adjusted in three steps. The display can also be turned off.

Selecting the play mode (PURE DIRECT)

This mode reproduces the sound with extremely high quality. The audio signals do not pass through the tone circuits, etc., and the display that could affect the audio signals are turned "OFF".

Press <PURE DIRECT>.

Setting the tone control

Adjusting the tone

1 Press <TONE CONTROL> to select "BASS" or "TREBLE".

2 Use <SELECT> to set the level.

- ※ Can be adjusted within the range of -10 dB to +10 dB.

When you do not want to adjust the tone

Press <TONE DEFEAT> to select "TONE DEFEAT ON".

When listening with the volume turned low

Press <LOUDNESS> to select "LOUDNESS ON".

Adjusting the speaker volume

1 Press <CH VOL> to select the speaker.

- ※ The settable speaker switches each time this button is pressed.

2 Use <SELECT> to adjust the volume.

- ※ Can be adjusted within the range of -12 dB to +12 dB.

Listening to the radio

Auto preset memory

This unit is equipped with a function for automatically searching for FM broadcast stations and storing them in the preset memory.

1 Press <ON/STANDBY> and set the DRA-500AE's power to the standby mode.

2 Hold <PRESET ▲> and press <ON/STANDBY>.

- The unit automatically begins searching for FM broadcast stations.

- ※ When the first FM broadcast station is found, that station is stored in the preset memory at channel A1.

Subsequent stations are automatically stored in order at preset channels A1 to A8, B1 to B8, C1 to C8, D1 to D8, E1 to E8, F1 to F8 and G1 to G8 for a maximum of 56 stations.

- ※ Channel A1 is tuned in after the auto preset memory operation is completed.

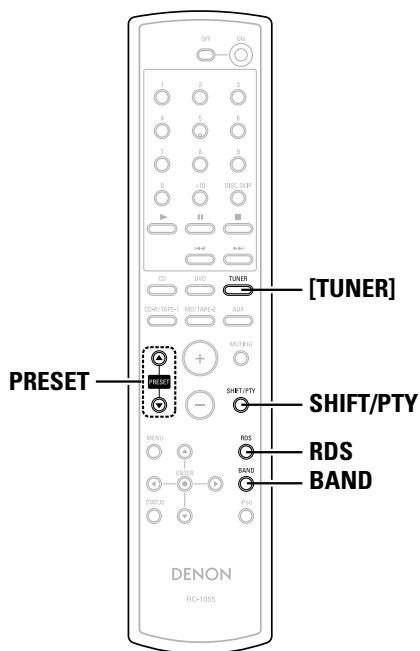
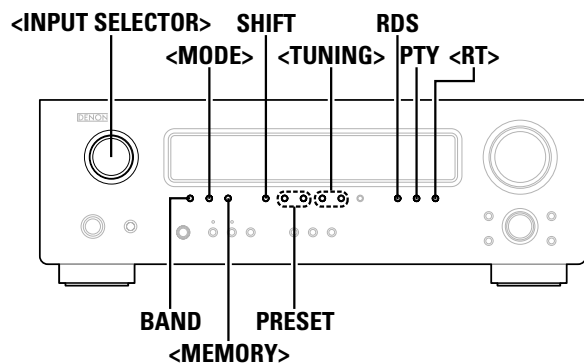


- If an FM station cannot be preset automatically due to poor reception, use the "Manual tuning" operation to tune in the station, then preset it using the manual "Preset memory" operation.
- To interrupt this function, press <ON/STANDBY>.

Default settings

Auto tuner presets	
A1 ~ A8	87.5 / 89.1 / 98.1 / 108.0 / 90.1 / 90.1 / 90.1 / 90.1 MHz
B1 ~ B8	522 / 603 / 999 / 1404 / 1611 kHz, 90.1 / 90.1 / 90.1 MHz
C1 ~ C8	90.1 MHz
D1 ~ D8	90.1 MHz
E1 ~ E8	90.1 MHz
F1 ~ F8	90.1 MHz
G1 ~ G8	90.1 MHz

Operation



About the button names in this explanation
 < > : Buttons on the main unit
 [] : Buttons on the remote control unit
Button name only :
 Buttons on the main unit and remote control unit

Auto tuning

- 1** Use <INPUT SELECTOR> to select “TUNER” or press [TUNER].
- 2** Press BAND to select “AM” or “FM”.
- 3** Press <MODE> to set the auto tuning mode.
 - The “AUTO” indicator lights.
- 4** Press <TUNING>.
 - Automatic searching begins.



• If tuning does not stop at the desired station, use to the “Manual tuning” operation.

Manual tuning

- 1** Use <INPUT SELECTOR> to select “TUNER” or press [TUNER].
- 2** Press BAND to select “AM” or “FM”.
- 3** Press <MODE> to set the manual tuning mode.
 - ※ Check that the display’s “AUTO” indicator turns off.
- 4** Press <TUNING>.
 - ※ The frequency changes continuously when the button is held in.



• When the manual tuning mode is set, FM stereo broadcasts are received in monaural and the “STEREO” indicator turns off.

Operation

Preset memory

- 1** Use the “Auto tuning” or “Manual tuning” operation to tune in the station to be preset in the memory.
- 2** Press <MEMORY>.
- 3** Press SHIFT to select the desired memory block (A to G).
- 4** Press PRESET to select the desired preset channel (1 to 8).
- 5** Press <MEMORY> again.
 - Store the station in the preset memory.



• To preset other channels, repeat steps 2 to 4.
 A total of 56 broadcast stations can be preset — 8 stations (channels 1 to 8) in each of blocks A to G.

Recalling preset stations

- 1** Press SHIFT to select the memory block.
- 2** Press PRESET to select the desired preset channel.

Operation

RDS (Radio Data System)

RDS (works only on the FM band) is a broadcasting service which allows a station to send additional information along with the regular radio program signal.

The following three types of RDS information can be received with this unit:

Program Type (PTY)

PTY identifies the type of RDS program.

The program types and their displays are as follows:

NEWS	News	WEATHER	Weather
AFFAIRS	Current Affairs	FINANCE	Finance
INFO	Information	CHILDREN	Children's programmes
SPORT	Sports	SOCIAL	Social Affairs
EDUCATE	Education	RELIGION	Religion
DRAMA	Drama	PHONE IN	Phone In
CULTURE	Culture	TRAVEL	Travel
SCIENCE	Science	LEISURE	Leisure
VARIED	Varied	JAZZ	Jazz Music
POP M	Pop Music	COUNTRY	Country Music
ROCK M	Rock Music	NATION M	National Music
EASY M	Easy Listening Music	OLDIES	Oldies Music
LIGHT M	Light Classical	FOLK M	Folk Music
CLASSICS	Serious Classical	DOCUMENT	Documentary
OTHER M	Other Music		

Traffic Program (TP)

TP identifies programs that carry traffic announcements.

This allows you to easily find out the latest traffic conditions in your area before leaving home.

Radio Text (RT)

RT allows RDS stations to send text messages that appear on the display.

NOTE:

- The operations described below using **RDS**, **PTY** and **<RT>** will not function in areas in which there are no RDS broadcasts.

RDS search

Use this function to automatically tune to FM stations that provide the RDS service.

1 Use **<INPUT SELECTOR>** to select **“TUNER”** or press **[TUNER]**.

2 Press **RDS** until **“RDS SEARCH”** appears on the display.

3 Press **PRESET**.

- The search for RDS stations begins automatically.

- ※ If no RDS stations are found with the above operation, all the reception bands are searched.
- ※ When a broadcast station is found, that station's name appears on the display.

4 To continue searching, repeat step 3.

- ※ If no RDS station is found when all the frequencies have been searched, **“NO RDS”** is displayed.

Operation

PTY search

Use this function to find RDS stations broadcasting a designated program type (PTY).

For a description of each program type, refer to **“Program Type (PTY)”**.

1 Use **<INPUT SELECTOR>** to select **“TUNER”** or press **[TUNER]**.

2 Press **RDS** until **“PTY SEARCH”** appears on the display.

3 Watching the display, press **PTY** to call out the desired program type.

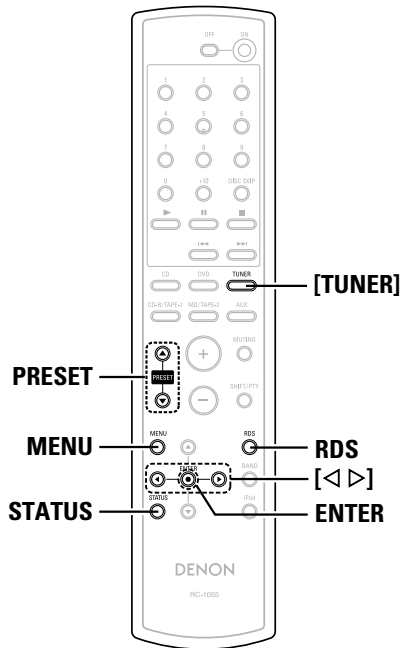
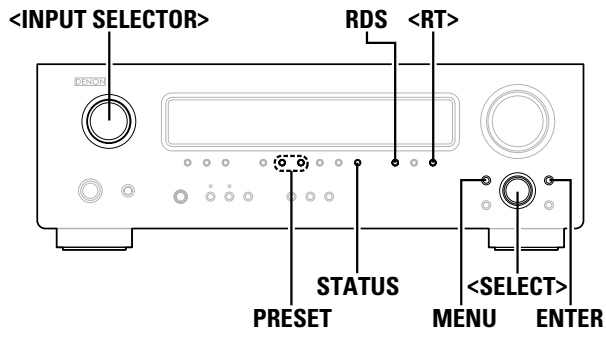
4 Press **PRESET**.

- PTY search begins automatically.

- ※ If there is no station broadcasting the designated program type with the above operation, all the reception bands are searched.
- ※ The station name is displayed on the display after searching stops.

5 To continue searching, repeat step 4.

- ※ If no station broadcasting the designated program type is found when all the frequencies have been searched, **“NO PROGRAMME”** is displayed.



About the button names in this explanation
 < > : Buttons on the main unit
 [] : Buttons on the remote control unit
Button name only :
 Buttons on the main unit and remote control unit

TP search

Use this function to find RDS stations broadcasting traffic programs (TP stations).

- 1** Use <INPUT SELECTOR> to select “TUNER” or press [TUNER].
- 2** Press RDS until “TP SEARCH” appears on the display.
- 3** Press PRESET.
 - TP search begins automatically.
 - ※ If no TP station is found with the above operation, all the reception bands are searched.
 - ※ The station name is displayed on the display after searching stops.
- 4** To continue searching, repeat step 3.
 - ※ If no other TP station is found when all the frequencies have been searched, “NO PROGRAMME” is displayed.

RT (Radio Text)

“RT” appears on the display when radio text data is received.

- 1** Use <INPUT SELECTOR> to select “TUNER” or press [TUNER].
- 2** Press <RT>.
 - ※ While receiving an RDS broadcast station, the text data broadcast from the station is displayed.
 - ※ To turn the display off, press <RT> again.
 - ※ If no text data is being broadcast, “NO TEXT DATA” is displayed.

Switching RDS information display

- 1** Use the procedure described at “Auto tuning”, “Manual tuning” or “Recalling preset stations” to tune in a frequency with an RDS station.
- 2** Press STATUS to switch the RDS reception information.
 - ※ The display switches as shown below each time STATUS is pressed.
 - ① PS :**
The programme service name and frequency of the station tuned in is displayed.

A2 ABCDEFGH TP

The above is an example for when there is TP data but no RT data.
 - ② PTY :**
The programme type of the tuned in broadcast is displayed.

PTY NEWS
 - ③ Frequency :**
The frequency is displayed.

A2 FM105.70MHz
 - ④ CT :**
The current time is displayed.

15:10

Operation

Playing the iPod®

The music recorded on the iPod can be played when using a Control Dock for iPod (ASD-1R, sold separately). The iPod can be controlled using the buttons on the main unit and the remote control unit.



iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

※ With the iPod, non-copyrighted contents and contents that may be legally reproduced or played may be reproduced and played by individuals for their personal use. Violating copyrights is prohibited by law.

Setting the iPod Assignment

It is possible to assign the Control Dock for iPod's (ASD-1R, sold separately) audio and video signals to any input terminals on the DRA-500AE and play them.

1 Press MENU.

2 Use <SELECT> or press [◀ ▶] to select the input terminals.

NONE:

This is the factory default setting.

DVD, AUX, CDR/TAPE, MD/TAPE2, CD:

When using a Control Dock for iPod, it is possible to connect with the audio input terminal of the assigned function.

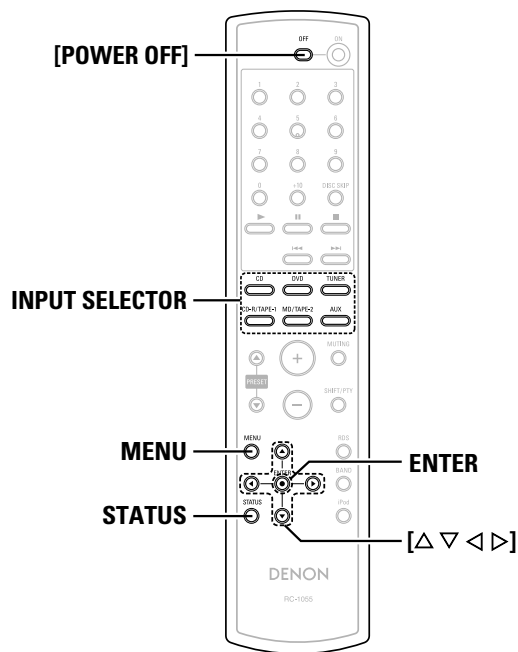
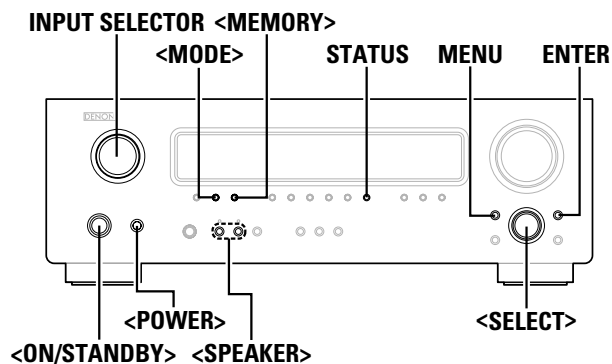
3 Press ENTER.



- The optional standard Control Dock for iPod is DENON ASD-1R sold separately.
- To assign to a different function after a function has already been assigned, switch to a function other than the one that is assigned then repeat the procedure.
- "TUNER" cannot be selected on the iPod Assignment mode.

NOTE:

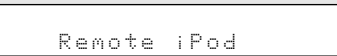
- DENON will accept no responsibility whatsoever for loss or damage of data on an iPod occurring when the iPod is used connected to the DRA-500AE.
- Some of the functions may not operate, depending on the type of iPod and the software version.



About the button names in this explanation
 < > : Buttons on the main unit
 [] : Buttons on the remote control unit
Button name only :
 Buttons on the main unit and remote control unit

Listening to music

- 1** Connect the DRA-500AE and iPod using the Control Dock for iPod (ASD-1R) (☞ page 10).
- 2** Assign the input terminal at “Setting the iPod Assignment” (☞ page 16).
- 3** Use **INPUT SELECTOR** to select the function assigned in step 2.
 - Display “Remote iPod” on the main unit’s display.



※ If the screens above are not displayed, the iPod may not be properly connected. Check the connections and settings.

- 4** Operate using **MENU**, **<SELECT>**, [Δ ∇ ◀ ▶] and **ENTER** while watching the iPod’s screen.



• The optional standard Control Dock for iPod is DENON ASD-1R sold separately.

Listening to music in the Browse mode

The mode switches between the Remote mode and the Browse mode if **<MODE>** is pressed for at least 2 seconds.

- 1** Use **<SELECT>** or press [Δ ∇] to select the music file, then press **ENTER** or [▶].
 - ※ Press [◀] to return to the music menu screen.

- 2** Press **ENTER** or [▶].
 - Playback starts.

Pause:
 Press **ENTER** during playback.
 Press again to resume.

Manual search:
 Press and hold in [Δ ∇] during playback.

- Δ: Fast reverse
- ∇: Fast forward

Track search:
 Press [Δ ∇] during playback.

- Δ: Move to beginning of previous track
- ∇: Move to beginning of next track

Stop:
 Press **ENTER** for at least 2 seconds during playback.

Repeat play:
 Press **<MODE>**.
 The mode switches as follows each time **<MODE>** is pressed.

- **Repeat One:** Single track repeat
- **Repeat All:** All track repeat

Shuffle play:
 Press **<MEMORY>**.
 The mode switches as follows each time **<MEMORY>** is pressed.

- **Shuffle Songs:** Single track shuffle
- **Shuffle Albums:** Album shuffle

※ In the Remote mode, only **<SELECT>**, [Δ ∇ ◀ ▶] and **ENTER** can be used.



- When **STATUS** is pressed during playback, the front panel display switches between the title name, artist name and album name.
- Depending on the iPod’s software version, it may not be possible to operate the iPod from the DRA-500AE. Use the latest version of the software. Information on the latest version of the software can be obtained on the Apple Computer website.
- With the DRA-500AE it is possible to display folder names and file names on the screen like titles. The DRA-500AE can display up to 64 characters, consisting of numbers, capital letters and small letters. A “?” mark is displayed in place of non-compatible characters.

Operation

Viewing still pictures and videos (only for iPods equipped with the slideshow / video function)

Use this procedure to view photo and video data stored on the iPod on a monitor.

1 Press <MODE> for at least 2 seconds to switch from the Browse mode to the Remote mode.

- "Remote iPod" is displayed on the DRA-500AE's display.

2 Watching the iPod's screen, press [△ ▽] to select "Photos" or "Video", then press ENTER or [▷].

- The iPod's photo and video data are displayed on the monitor.



- To output photo or video data recorded on the iPod to the monitor, the iPod's "TV Out" setting (under "Video Settings") must be set to "ON".

For details, refer to the iPod's operating instructions.

Disconnecting the iPod

Press <ON/STANDBY> or [POWER OFF] and set the DRA-500AE's power to the standby mode.

- ※ The iPod can be disconnected after switching to a function other than the one to which the iPod input is assigned.

Recording the program source (recording the source currently being monitored)

1 Select the input source to be played.

2 Start recording on the CD-R, MD or tape.

- ※ For instructions, refer to the component's operating instructions.



- The AUDIO IN's signal selected with INPUT SELECTOR are output to the CD-R/TAPE1 and MD/TAPE2 terminals.

Simultaneous recording

The signals of the source selected with INPUT SELECTOR are output simultaneously to the CD-R/TAPE1 and MD/TAPE2 terminals. If a total of two CD-R, MD and/or tape are connected and set to the recording mode, the same source can be recorded simultaneously on every decks.

Operation

About the memory functions

Last function memory

The various settings set when the DRA-500AE's power is switched to standby are stored in the memory. When the power is turned back on, the settings made when the power was switched to standby are recalled.

Backup memory

The various settings are stored in the memory for about 1 week, even when the power is turned off or the power cord is unplugged.

Initialization of the microprocessor

If the indication on the display is not normal or if the operation of the unit is not correct, then the microprocessor should be reset by the following procedure.

1 Switch off the unit using <POWER>.

2 Keep both <SPEAKER> (A and B) depressed and turn on the unit by pressing <POWER>.

3 Check that the entire display is flashing at 1-second intervals and release the buttons.

- The microprocessor will be initialized.



- If step 3 does not work, start over from step 1.
- If the microprocessor has been reset, all the button settings are reset to the default values (the values set upon shipment from the factory).

Troubleshooting

If a problem should arise, first check the following.

1. Are the connections correct?

2. Have you operated the receiver according to the Operating Instructions?

3. Are the speakers and other components operating properly?

If this unit is not operating properly, check the items listed in the table below. Should the problem persist, there may be a malfunction. Disconnect the power immediately and contact your store of purchase.

Symptom	Cause	Measures	Page
Display not lit and sound not produced when POWER switch set to on.	<ul style="list-style-type: none"> Power supply cord not plugged in securely. 	<ul style="list-style-type: none"> Check the insertion of the power supply cord plug. 	10
Display lit but sound not produced.	<ul style="list-style-type: none"> Speaker cables not securely connected. INPUT SELECTOR knob position is not appropriate. Volume control set to minimum. MUTING is on. 	<ul style="list-style-type: none"> Connect securely. 	7
		<ul style="list-style-type: none"> Switch to the proper position. 	11
		<ul style="list-style-type: none"> Turn volume up to suitable level. 	11
		<ul style="list-style-type: none"> Switch off MUTING. 	11
This unit does not operate properly when remote control unit is used.	<ul style="list-style-type: none"> Batteries dead. Remote control unit too far from this unit. Obstacle between this unit and remote control unit. Different button is being pressed. ⊕ and ⊖ ends of batteries inserted in reverse. 	<ul style="list-style-type: none"> Replace with new batteries. 	3
		<ul style="list-style-type: none"> Move closer. 	3
		<ul style="list-style-type: none"> Remove obstacle. 	—
		<ul style="list-style-type: none"> Press the proper button. Insert batteries properly. 	3
Power has turned off and the power indicator is blinking red.	<ul style="list-style-type: none"> The set's internal temperature has risen and the protection circuit has been activated. The core wires of the speaker cables are touching each other or the DRA-500AE's rear panel, activating the protection circuit. DRA-500AE is malfunctioning. 	<ul style="list-style-type: none"> Put the DRA-500AE in a well-ventilated place. 	6, 7
		<ul style="list-style-type: none"> Turn off the power, then wait for the set to fully cool off before turning the power back on. 	6, 7
		<ul style="list-style-type: none"> Check the connections of all the speaker cables. 	7
		<ul style="list-style-type: none"> Turn off the power and contact a DENON customer service center. 	6

Specifications

□ Audio section

• Power amplifier

Rated output:	75 W + 75 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)
Output terminals:	A or B 4 ~ 16 Ω/ohms
	A + B 8 ~ 16 Ω/ohms

• Analog

Input sensitivity / input impedance:	200 mV / 47 kΩ/kohms
Frequency response:	10 Hz ~ 100 kHz: +1, -3 dB (TONE DEFEAT ON)
S/N:	98 dB (IHF-A weighted) (TONE DEFEAT ON)

□ Tuner section

	[FM]	[AM]
	(note: μV at 75 Ω/ohms, 0 dBf = 1 x 10 ⁻¹⁵ W)	
Receiving Range:	87.50 MHz ~ 108.00 MHz	522 kHz ~ 1611 kHz
Usable Sensitivity:	1.0 μV (11.2 dBf)	18 μV
50 dB Quieting Sensitivity:	MONO 1.6 μV (15.3 dBf)	
	STEREO 23 μV (38.5 dBf)	
S/N (IHF-A):	MONO 77 dB (IHF-A weighted)	
	STEREO 72 dB (IHF-A weighted)	
Total Harmonic Distortion (at 1 kHz):	MONO 0.15 %	
	STEREO 0.3 %	

□ General

Power supply:	AC 230 V, 50 Hz
Power consumption:	235 W
	1 W Max (Standby)
Maximum external dimensions:	434 (W) x 147 (H) x 414 (D) mm
Mass:	9 kg

□ Remote control unit (RC-1055)

Batteries:	R03/AAA Type (Two batteries)
External dimensions:	49 (W) x 220 (H) x 23 (D) mm
Mass:	115 g (included batteries)

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

DENON

TOKYO, JAPAN
www.denon.com

Denon Brand Company, D&M Holdings Inc.
Printed in China 00D 511 4543 005