

# DENON

AM-FM STEREO RECEIVER

## **DRA-700AE/700AEDAB**

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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 Richtlinie 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

Dichiariamo 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 E' 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.

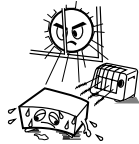
#### EENVORMIGHEIDSVKLAARING

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.

#### ÖVERENSSTÄMMELSEINTYG

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



- Avoid high temperatures.  
Allow for sufficient heat dispersion when installed on a rack.
- Vermeiden Sie hohe Temperaturen.  
Beachten Sie, daß eine ausreichende 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  
Permite 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.



\* (For sets with ventilation holes)

- 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 beblokkeerd.
- Tapp inte till ventilationsöppningarna.

#### CAUTION:

- 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.

#### ACHTUNG:

- 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.



- 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.  
Agitare 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.



- 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.

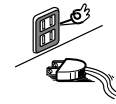
- Das Gerät sollte keinerlei Flüssigkeit, also keinem Tropfen oder Spritzen ausgesetzt werden.
- Auf dem Gerät sollten keinerlei mit Flüssigkeit gefüllten Behälter wie beispielsweise Vasen aufgestellt werden.

#### ATTENTION:

- 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.

#### PRECAUZIONI:

- Le aperture di ventilazione non devono essere ostruite coprendole con oggetti, quali giornali, tovaglie, tende e così via.



- 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.



- 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.

- Non posizionare sull'apparecchiatura fiamme libere, come ad esempio le candele accese.
- Prestare attenzione agli aspetti legati alla tutela dell'ambiente quando si smaltisce la batteria.
- L'apparecchiatura non deve essere esposta a goccioli o spruzzi.
- Non posizionare sull'apparecchiatura nessun oggetto contenente liquidi, come ad esempio i vasi.

#### PRECAUCIÓN:

- 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.



- 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 verfverdunder met dit apparaat in contact komen.
- Se till att inte insektsmedel på spraybruk, bensen och thinner kommer i kontakt med apparatens hölje.



- 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.

#### WAARSCHUWING:

- 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 milieuvorschriften 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.

#### OBSERVERA:

- Ventilationen bör inte förhindras genom att täcka för ventilationsöppningarna med föremål såsom tidningar, bordsdukar, gardiner osv.
- Inga blottade brandkällor, såsom tända ljus, bör placeras på apparaten.
- Tänk 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 empaquetados 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.

**FÖRSIKTIGHETSMÅTT:**

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-700AE/700AEDAB 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.

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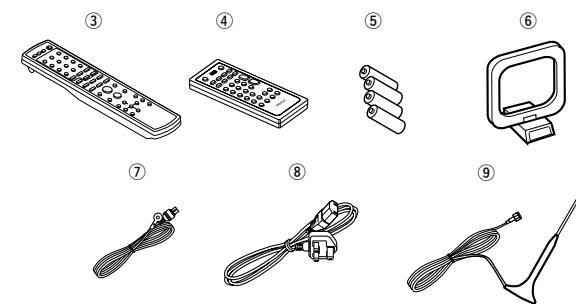
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## Getting Started

### Accessories

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

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## Getting Started

### 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.

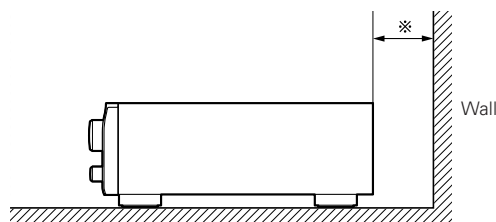
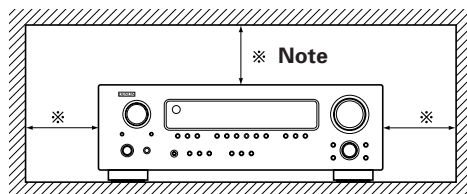
Please be sure to turn off the power switch or unplug the cord when you leave home for, say, a vacation.

#### • 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.



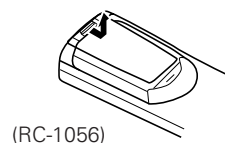
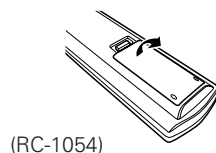
### About the remote control unit

In addition to controlling the DRA-700AE/700AEDAB, the attached system remote control unit (RC-1054) can also be used to control the following products:

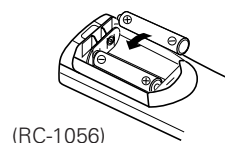
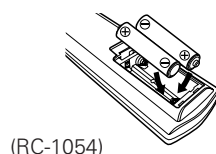
- DENON component products

### Inserting the batteries

- ① Remove the remote control unit's rear cover.



- ② Set two batteries in the battery compartment in the indicated direction.



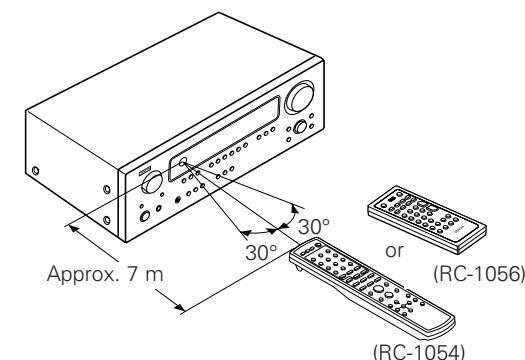
- ③ Put the rear cover back on.

#### 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.

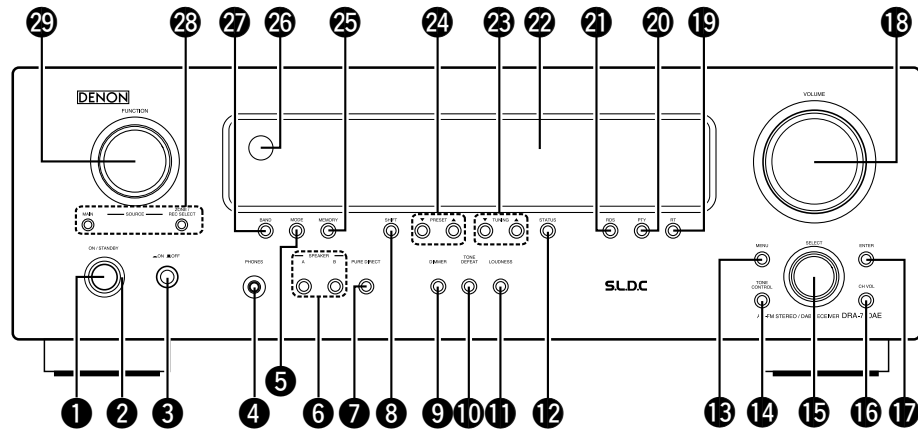
## Getting Started

## Part names and functions

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

## Front panel

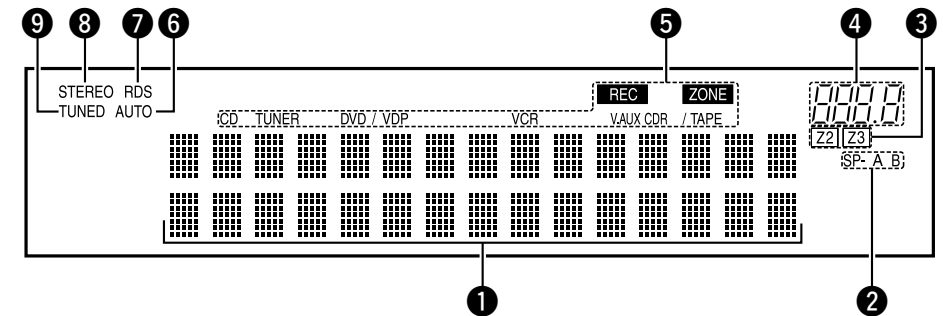
※ The illustrations are for the DRA-700AE/700AEDAB.



- |                                                          |                                                   |
|----------------------------------------------------------|---------------------------------------------------|
| <b>1 Power operation button</b><br>(ON/STANDBY).....(11) | <b>15 SELECT knob</b> .....(12, 21, 22)           |
| <b>2 Power indicator</b> .....(11)                       | <b>16 CH VOL button</b> .....(12)                 |
| <b>3 Power switch</b> .....(11, 24)                      | <b>17 ENTER button</b> .....(17 ~ 22)             |
| <b>4 Headphones jack (PHONES)</b> .....(11)              | <b>18 VOLUME control knob</b> .....(11)           |
| <b>5 MODE button</b> .....(12, 13, 22)                   | <b>19 RT button</b> .....(14)                     |
| <b>6 SPEAKER buttons</b> .....(11)                       | <b>20 PTY button</b> .....(14)                    |
| <b>7 PURE DIRECT button</b> .....(12)                    | <b>21 RDS button</b> .....(14)                    |
| <b>8 SHIFT button</b> .....(13)                          | <b>22 Display</b>                                 |
| <b>9 DIMMER button</b> .....(11)                         | <b>23 TUNING buttons (▲, ▼)</b> .....(12, 13, 17) |
| <b>10 TONE DEFEAT button</b> .....(12)                   | <b>24 PRESET buttons</b> .....(13, 14)            |
| <b>11 LOUDNESS button</b> .....(12)                      | <b>25 MEMORY button</b> .....(13, 22)             |
| <b>12 STATUS button</b> .....(11)                        | <b>26 Remote control sensor</b> .....(2)          |
| <b>13 MENU button</b> .....(12, 17 ~ 22)                 | <b>27 BAND button</b> .....(13)                   |
| <b>14 TONE CONTROL button</b> .....(12)                  | <b>28 ZONE select buttons</b> .....(23)           |
|                                                          | <b>29 FUNCTION knob</b> .....(11)                 |

## Getting Started

## Display



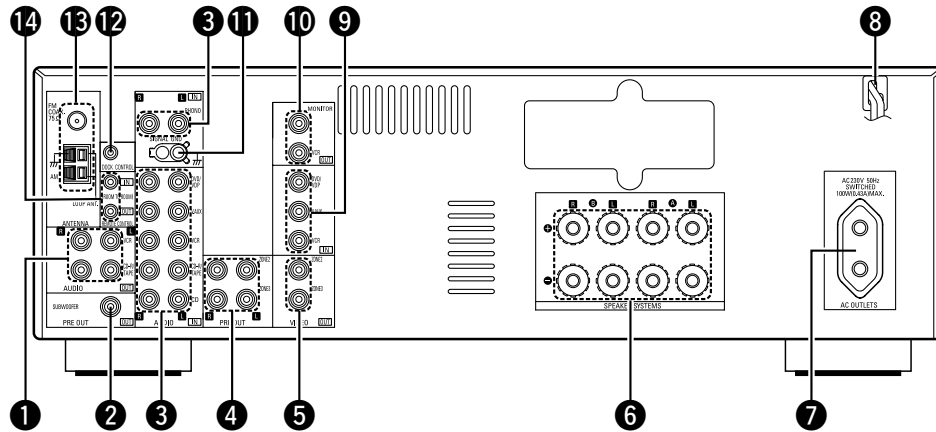
- |                                                                                                                                 |                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>1 Information display</b>                                                                                                    | <b>6 AUTO indicator</b><br>This lights when the broadcast station is selected in the AUTO tuning mode. |
| <b>2 Speaker indicators</b><br>This lights corresponding to the settings of the front speakers of the various surround modes.   | <b>7 RDS indicator</b><br>This lights when an RDS broadcast has been received.                         |
| <b>3 ZONE2/ZONE3 output indicators</b>                                                                                          | <b>8 STEREO indicator</b><br>This lights when an FM stereo broadcast has been received.                |
| <b>4 Volume indicator</b><br>This displays the volume level.                                                                    | <b>9 TUNED indicator</b><br>This lights when an FM/AM broadcast has been received.                     |
| <b>5 ZONE/REC SELECT indicators</b><br>Lights while selecting the ZONE or REC SELECT mode. (Off when the "SOURCE" is selected.) |                                                                                                        |



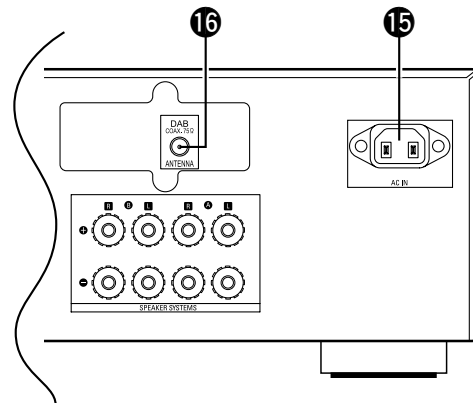
Getting Started

Rear panel

□ DRA-700AE



□ DRA-700AEDAB

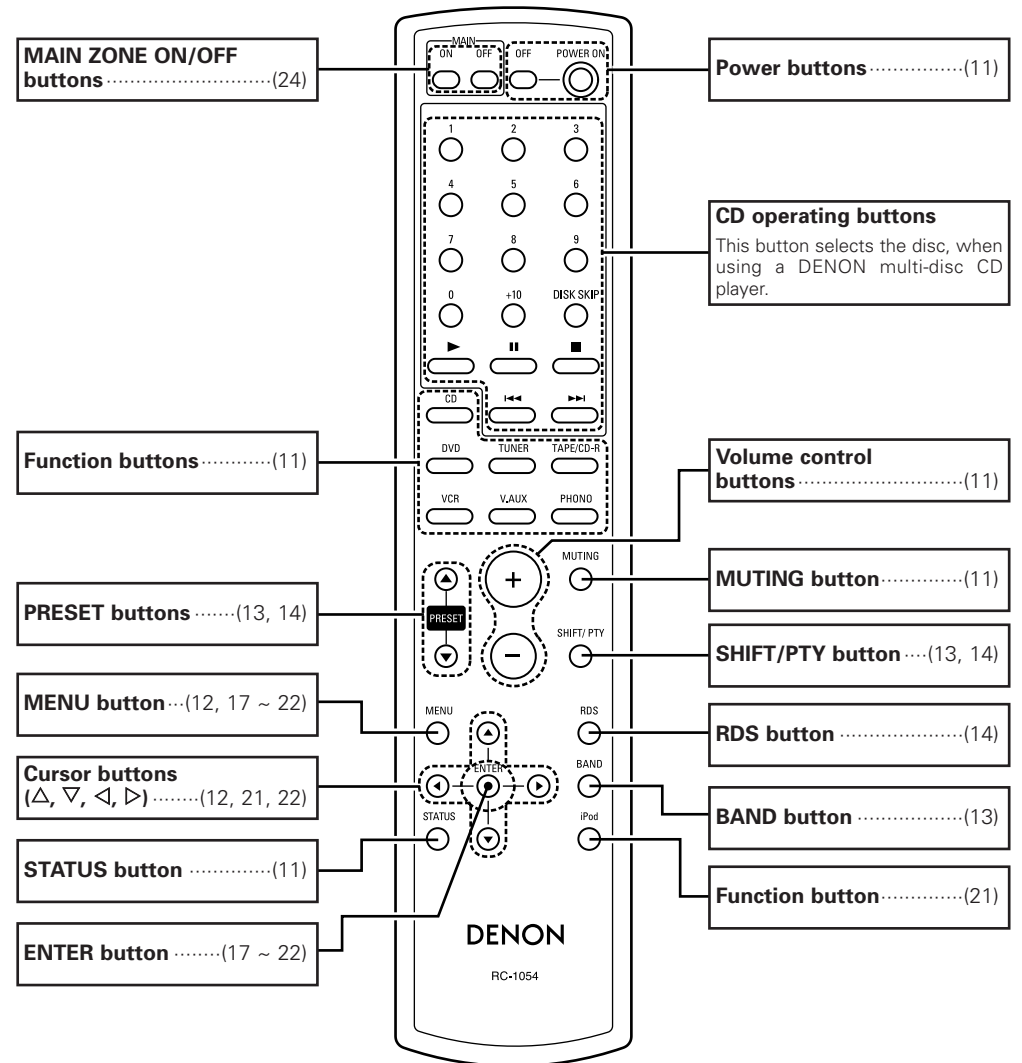


- |                                      |                                   |
|--------------------------------------|-----------------------------------|
| 1 AUDIO OUT terminals.....(7)        | 9 VIDEO IN terminals.....(6, 7)   |
| 2 SUBWOOFER PRE OUT terminal.....(6) | 10 VIDEO OUT terminals.....(6, 7) |
| 3 AUDIO IN terminals.....(6, 7)      | 11 SIGNAL GND terminal.....(7)    |
| 4 ZONE PRE OUT terminals.....(9)     | 12 DOCK CONTROL jack.....(9)      |
| 5 ZONE VIDEO OUT terminals.....(9)   | 13 ANTENNA terminals.....(8)      |
| 6 Speaker terminals.....(6)          | 14 REMOTE CONTROL jacks.....(9)   |
| 7 AC outlets.....(10)                | 15 AC inlet.....(10)              |
| 8 Power supply cord.....(10)         | 16 DAB ANTENNA terminal.....(8)   |

Getting Started

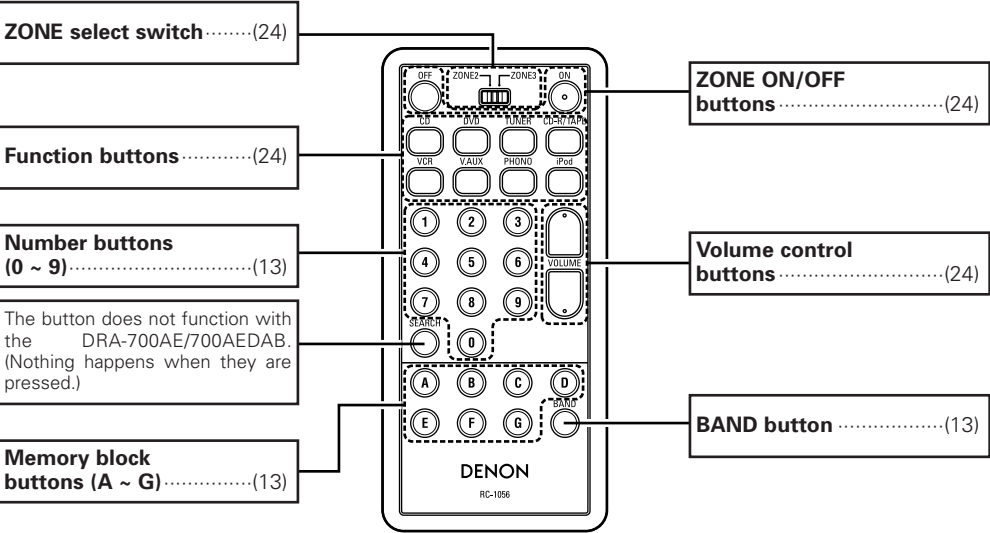
Remote control unit

□ System remote control unit (RC-1054)



Getting Started

ZONE remote control unit (RC-1056)



Connections

Cable indications

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

Audio cable	Signal direction
<b>A</b> Analog connections (Stereo) (White) (Red) Pin-plug cable	Audio signal IN OUT OUT IN Video signal IN OUT OUT IN
<b>B</b> Analog connections (Monaural, for subwoofer) Pin-plug cable	
<b>C</b> Speaker connections Speaker cable	
Video cable	
<b>D</b> Video connections (Yellow) Video cable (75 Ω/ohms video pin-plug cable)	

- 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.



# Connections

## 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.

### Connecting the speaker cables



1. Loosen by turning counterclockwise.



2. Insert the cable.  
Either tightly twist or terminate the core wires.



3. Tighten by turning clockwise.

## Speaker impedance

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

### Note on speaker impedance

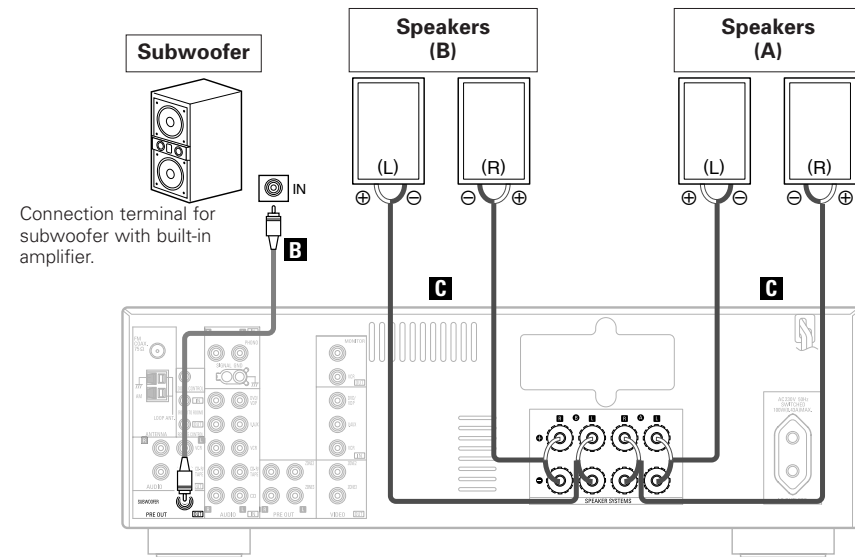
When using speakers with an impedance below the designated value (for example 4 Ω/ohms), playing for long periods of time with the volume high could cause the temperature to rise, activating the protection circuit.

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.

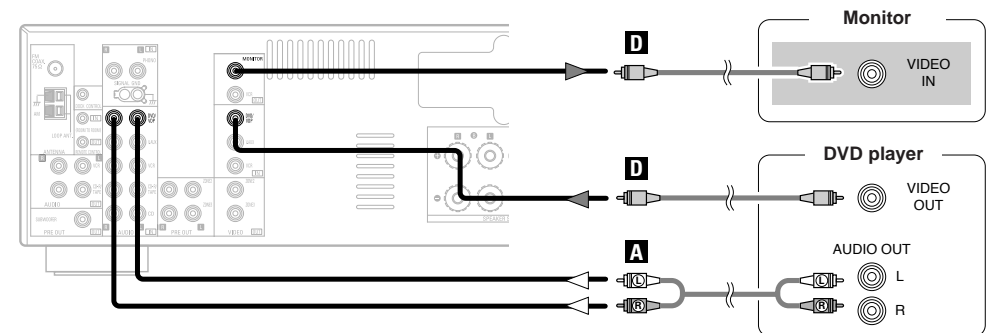
If the protection circuit is activated again even though there are no problems with the wiring or the ventilation around the unit, switch off the power and contact a DENON service center.

## Connections

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



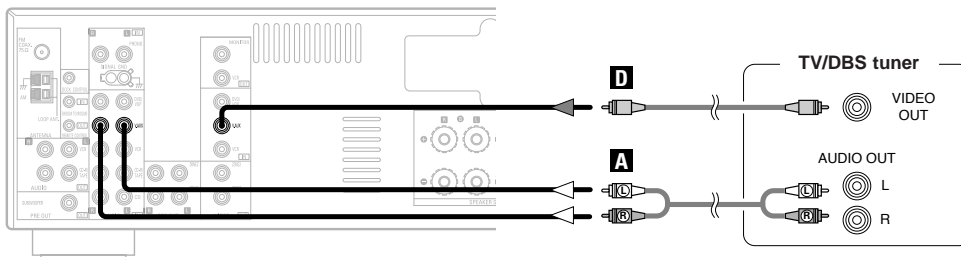
## Connecting a DVD player and monitor



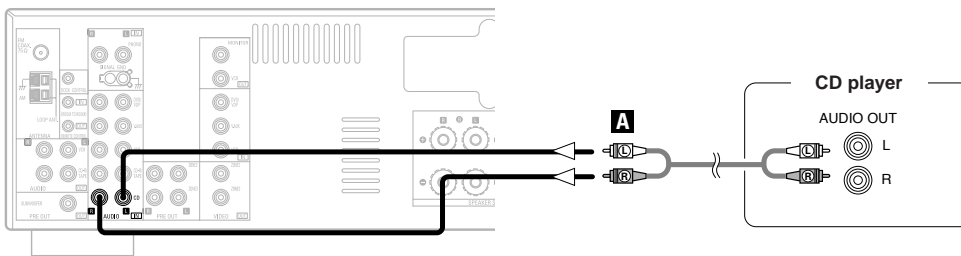
- Connect a non-DVD video disc player (such as a laser disc, VCD/SVCD, or future high definition disc player) to the DVD/VDP terminals in the same way.

Connections

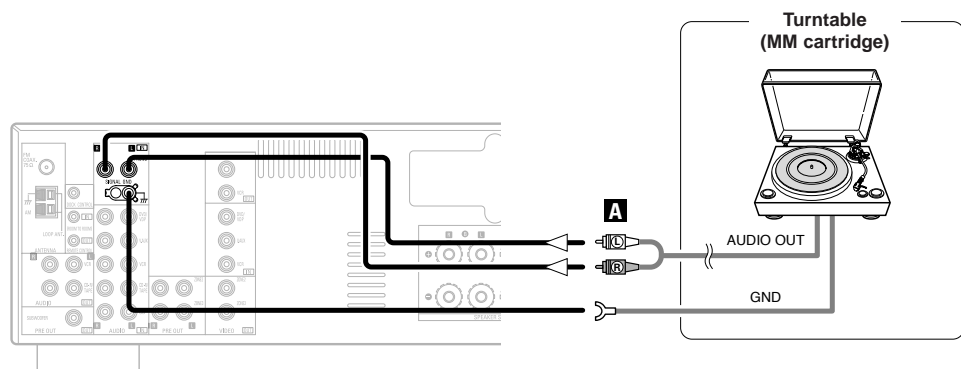
Connecting a TV/DBS tuner



Connecting a CD player



Connecting a turntable



Connections

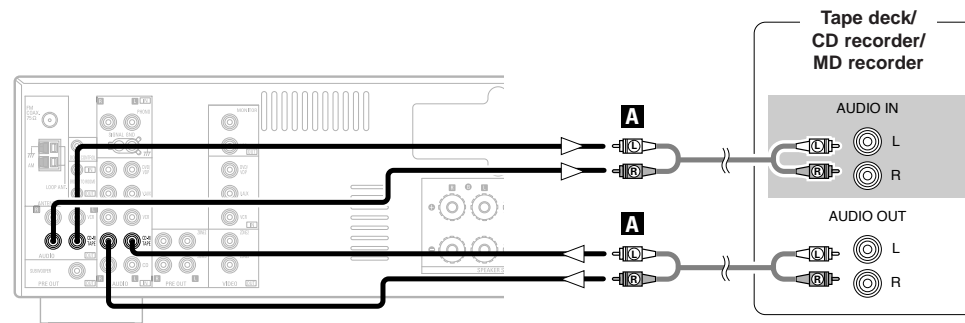


- The phono input can accept signals from moving magnet (MM) and high output moving coil (MC) phono cartridges. If your turntable is equipped with a low output MC cartridge, you will need to use a separate MC head amplifier or step-up MC transformer.

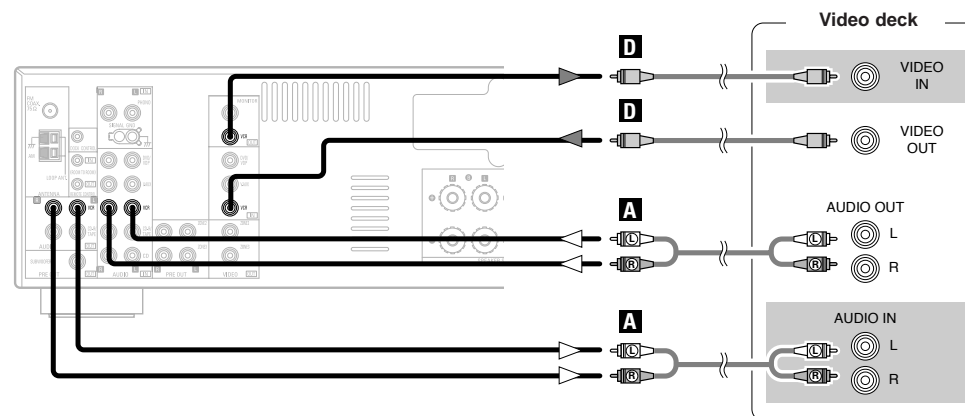
NOTE:

- If humming or other noise is generated when the ground wire is connected to the SIGNAL GND terminal, disconnect the ground wire.

Connecting a tape deck, CD recorder or MD recorder



Connecting a VCR

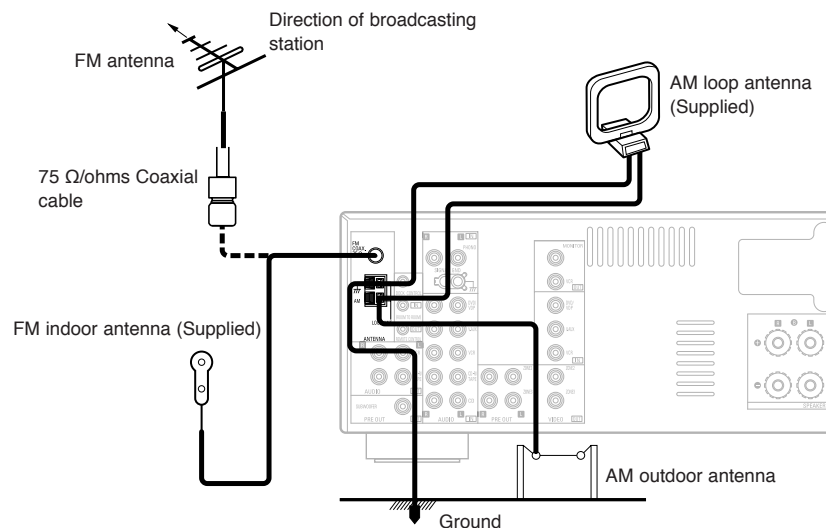


Connections

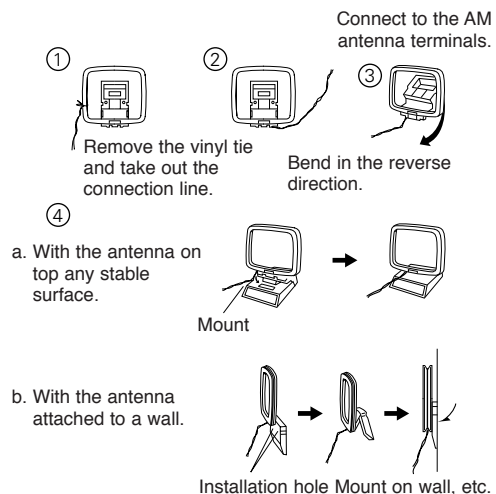
Connecting the antenna terminals

Connecting the AM/FM antenna terminals

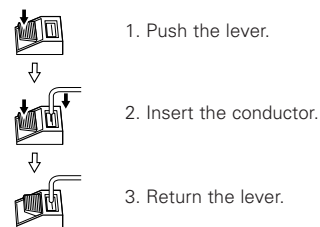
An FM antenna cable plug can be connected directly.



AM loop antenna assembly



Connection of AM antennas



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

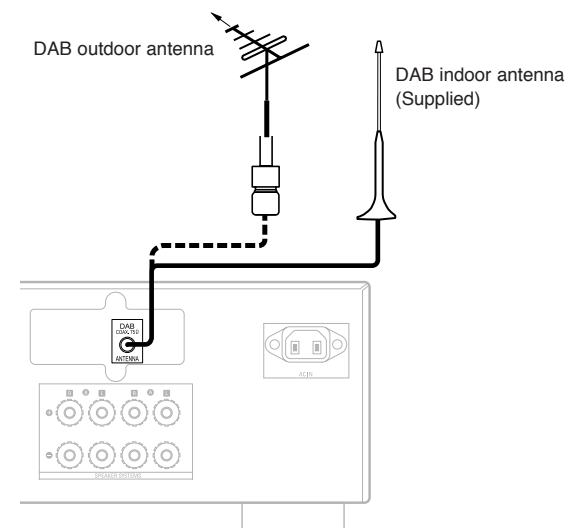
Connecting the DAB antenna terminals (DRA-700AEDAB only)

Connecting an DAB outdoor antenna

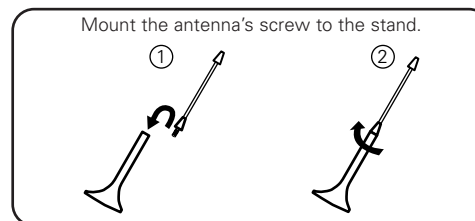
- If good reception cannot be achieved with the included DAB indoor antenna, use an DAB outdoor antenna. Connect an F male type connector to the coaxial cable and connect the antenna to the DAB COAX 75  $\Omega$ /ohms terminal.

Installing the DAB indoor antenna

- 1 DAB station reception (page 17).
- 2 Use "Tuning aid" to set position at which reception sensitivity is optimum (page 18).



DAB indoor antenna assembly



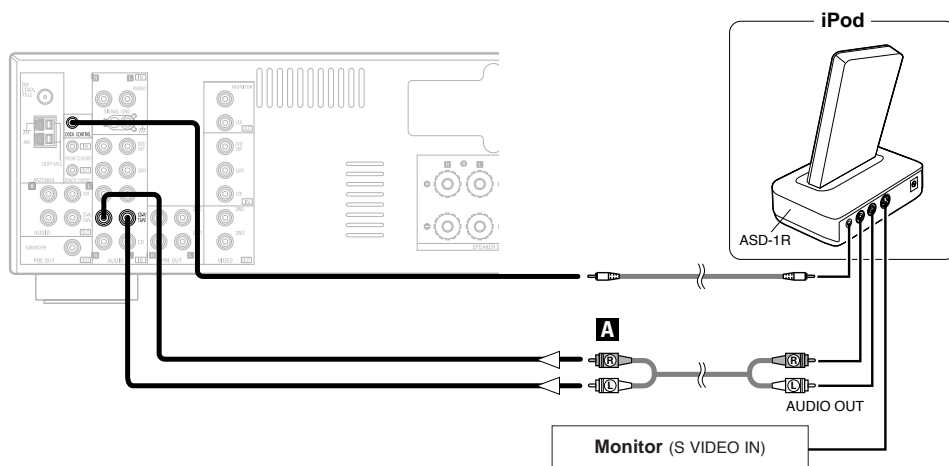
# Connections

## 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-700AE/700AEDAB 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/TAPE terminals.

- ※ For instructions on assigning the iPod to a specific terminal, see “Setting the iPod Assignment” (👉 page 21).
- ※ For instructions on playing the iPod, see “Playing the iPod” (👉 page 21).



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

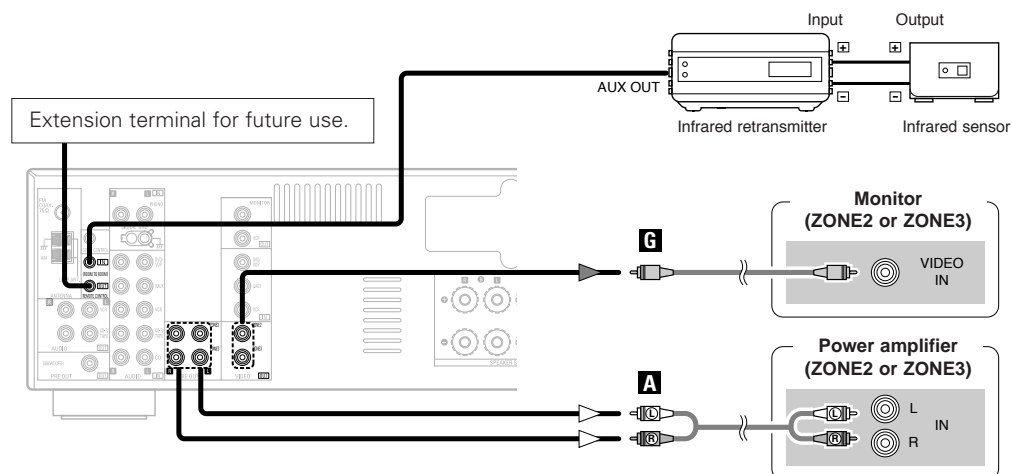
# Connections

## Connecting the MULTI ZONE terminals

- ※ For instructions on operations using the MULTI ZONE functions (👉 page 23).

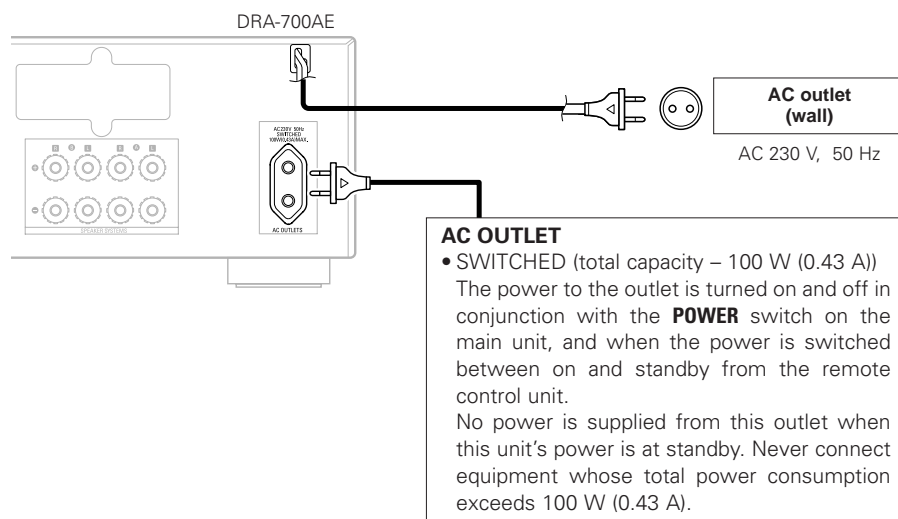
### ZONE2 (or ZONE3) PRE OUT connections

- If another power amplifier or pre-main (integrated) amplifier is connected, the ZONE2 (or ZONE3) pre-out (variable or fixed level) terminals can be used to play a different program source in ZONE2 (or ZONE3) the same time (👉 page 23).
- The ZONE2 video out is only for the ZONE2.
- The ZONE3 video out is only for the ZONE3.



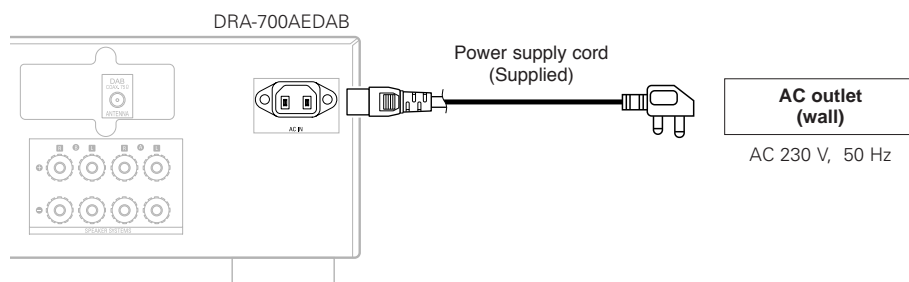
- For the AUDIO output, use high quality pin-plug cables and wire in such a way that there is no humming or noise.
- For instructions on installation and operation of separately sold devices, refer to the devices' operating instructions.

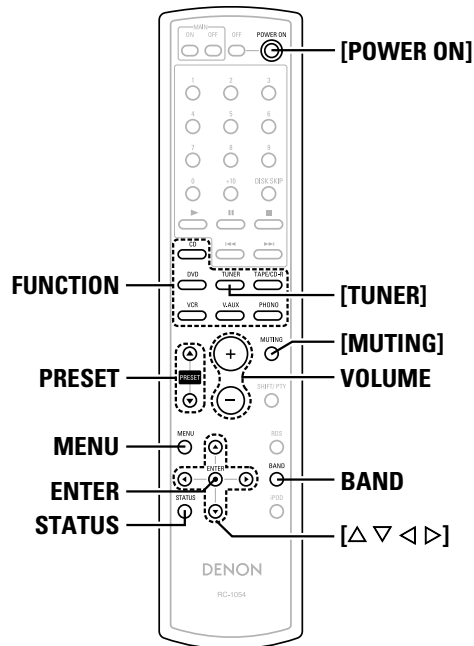
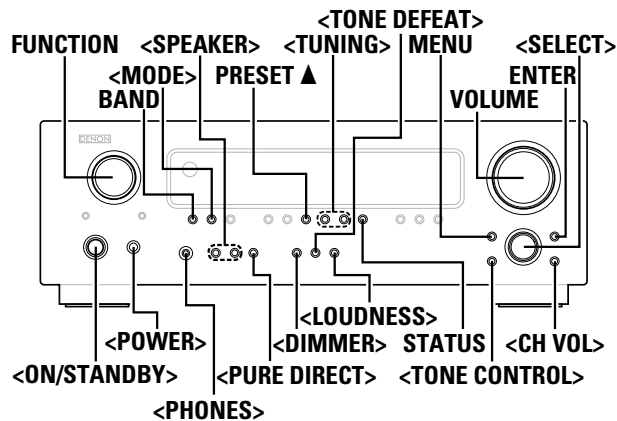
## Connecting the power supply cord



### 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 FUNCTION 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.

### 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.

## Operation

**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.

**Combining the currently playing sound with the desired image (VIDEO SELECT function)**

**1** Press **MENU** for at least 2 seconds.

**2** Use **<SELECT>** or press [**<** **>**] until the desired image appears on the display.

※ To cancel, press [**<** **>**] to select "SOURCE".

**3** Press **ENTER**.

- The video source selected with the video select function is stored in the memory for the different input sources.

**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-700AE/700AEDAB'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

**Auto tuning**

**1** Use **<FUNCTION>** 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>**.

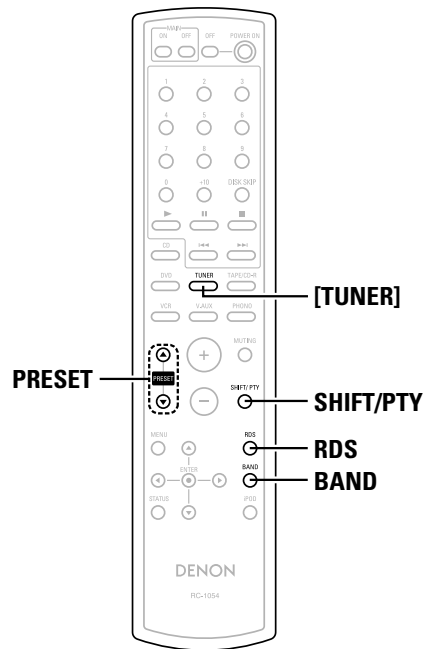
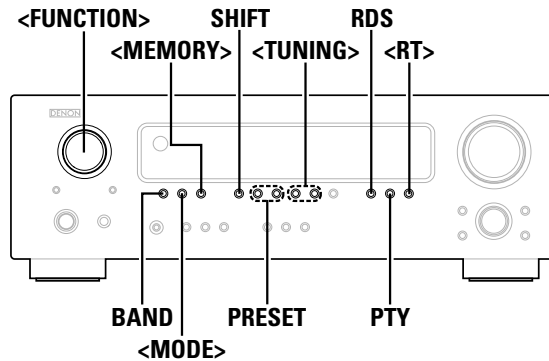
- Automatic searching begins.



- If tuning does not stop at the desired station, use to the "Manual tuning" operation.



## 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

## Manual tuning

**1** Use <FUNCTION> 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.

## 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 5.  
A total of 56 broadcast stations can be preset — 8 stations (channels 1 to 8) in each of blocks A to G.

## Operation

## Recalling preset stations

**1** Press SHIFT to select the memory block.

**2** Press PRESET to select the desired preset channel.

## 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:

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

## Operation

**☐ 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 **<FUNCTION>** 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 steps 2 to 3.

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

**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 **<FUNCTION>** 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 steps 2 to 4.

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

**TP search**

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

**1** Use **<FUNCTION>** 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 steps 2 to 3.

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

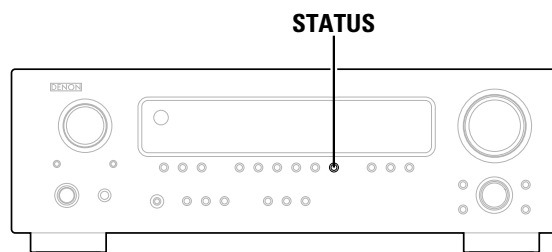
**RT (Radio Text)**

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

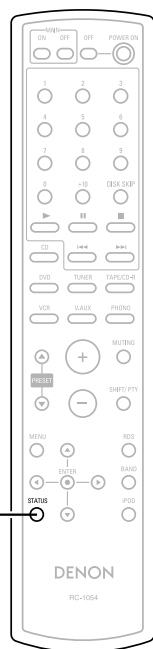
**1** Use **<FUNCTION>** to select “TUNER” or press **[TUNER]**.

**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.



STATUS

DENON  
RC-1004**About the button names in this explanation**

&lt; &gt; : Buttons on the main unit

[ ] : Buttons on the remote control unit

**Button name only :**

Buttons on the main unit and remote control unit

**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 of the station tuned in is displayed.

A2 ABC R1  
\*This Program

**② PTY :**

The programme type of the tuned in broadcast is displayed.

TUNER  
PTY NEWS

**③ Frequency :**

The frequency is displayed.

TUNER  
A2 FM105.70MHz

**④ CT :**

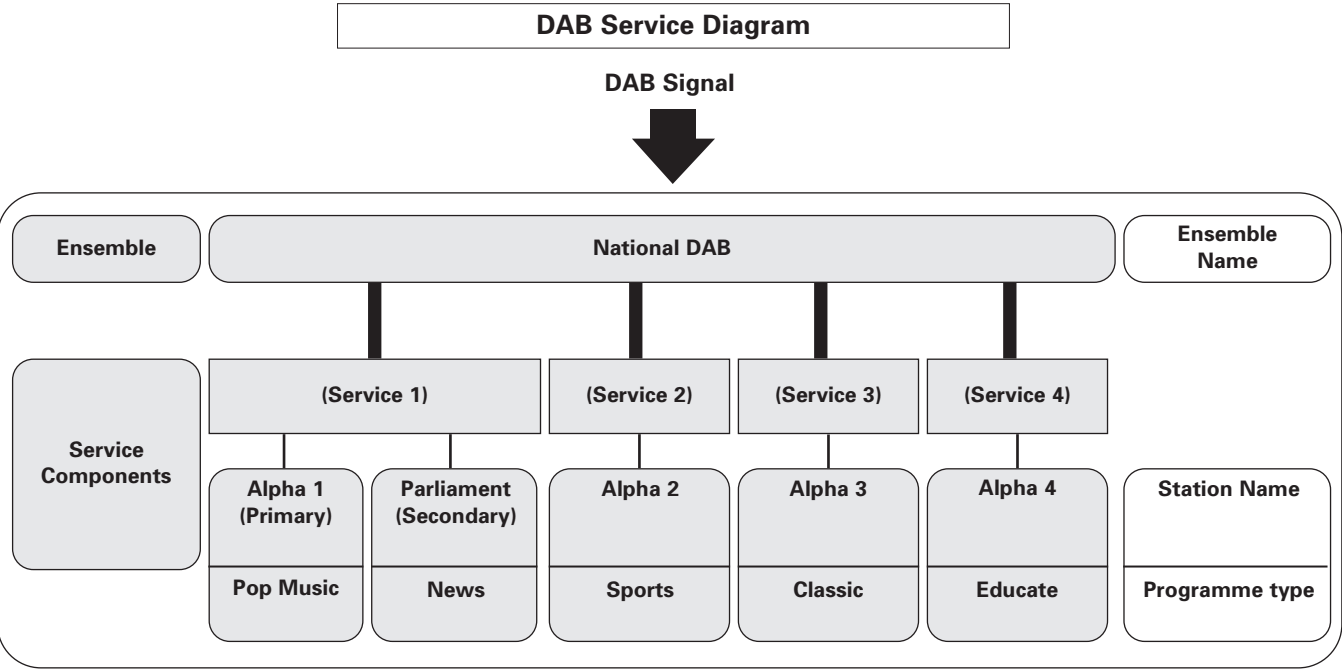
The current time is displayed.

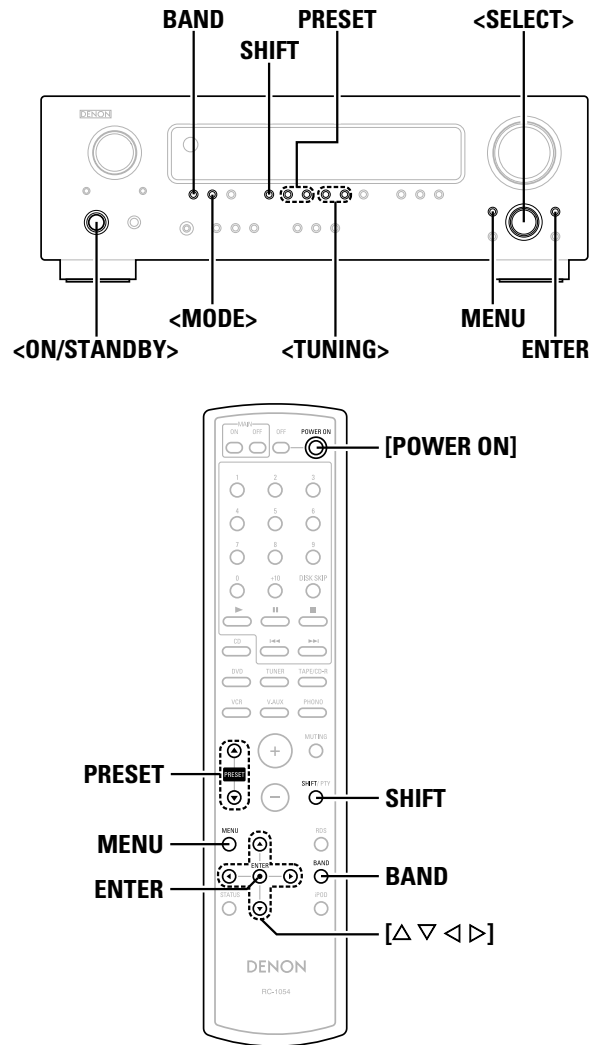
TUNER  
15:10

Listening to DAB broadcasts (DRA-700AEDAB only)

About DAB (Digital Audio Broadcasting)

- Since the DAB system is broadcasted in digital format, DAB system can supply crystal-clear audio and stable reception even in mobile objects. DAB is a new generation radio which can provide data service and supplementary multi-media services.
- DAB broadcasts multiple services under one Ensemble that are called service components.
- Each component contains inherent programmes; news, music, sports, and many more.
- Each Ensemble and service component has its label, and users can recognize a current broadcasting station and service contents by using the label.
- The main service component is broadcast as Primary while the others are broadcast as Secondary.
- Also rich character information is serviced through Dynamic Labels; song title, artist composer etc.





**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

**Tuning in DAB (Digital Audio Broadcasting) broadcasts**

**1** Press <ON/STANDBY> or [POWER ON] to turn on the power.

**2** Watching the display, press **BAND** to select the desired band (DAB).

Now Tuning...

**3** Press **MENU** to select menu.

**4** Either turn <SELECT> or press [Δ ∇] to select "Auto Tuning".

**5** Press **ENTER**.

**6** Either turn <SELECT> or press [Δ ∇] to select "UK Band" or "Full Band".

**7** Press **ENTER**.

Autotune.... 6  
Progress:31%

COMPLETED

A ABC\_WAVE

Tune in the first broadcast station.

※ **Using the DAB for the first time**

When you first switch on the unit and select DAB, the Auto Tuning function scans the Band III and L-band frequencies. After the scanning, the first scanned component will be selected.

Press the button and release it in less than 2 seconds to perform a local scan (UK band III).

(UK stations are in the range 11B to 12D) (☞ page 26).

Press the button for over 2 seconds then release it to perform the full scan operation (Full band III and L-band: 5A to LW) (☞ page 26).

Once auto scanning is completed, the number of broadcast stations is displayed, then the first station is tuned in.

If "Station not available" is displayed, check the antenna's connection (☞ page 8).

You may want to re-tune at a later date if you move the DRA-700AEDAB or if you want to receive a newly introduced ensemble.

Press **PRESET**.

**8** Press <TUNING> to select the station.

- If the station you select is in stereo, the "STEREO" indicator will light up.

※ **About secondary service**

When receiving a Secondary service, ">>" is indicated to the right of "station name".

When **ENTER** is pressed, the Secondary service Component is received and "<<" indicator lights.

Press **ENTER** to go back to the primary service again.

**9** Press **ENTER** to listen to the selected station.

- After "Now tuning..." is displayed, the tuned in station appears.

**Preset stations**

**1** Follow steps 1 to 9 under "Tuning in DAB (Digital Audio Broadcasting) broadcasts" to tune in the station to be preset.

**2** Perform steps 2 to 5 under "Preset memory" (☞ page 13).

※ Up to 56 "S. Component" can be preset (DAB alone).

## Recalling preset stations

**1** Press **SHIFT** to select the memory block.

**2** Press **PRESET** to select the desired preset channel.

**3 Press ENTER to listen to the selected station.**

- After “Now tuning...” is displayed, the tuned in station appears.

## Tuning mode

### Sorted list tuning mode

- You can select any component for listening from the list of sorted components.
- The sorted components are set in the sort mode.

**1** Press **<MODE>** to select “Tuning Mode (Sorted List)”.

Tuning Mode  
Sorted List

**2** Press **ENTER** to display the first channel on the Sorted List.

- ※ You can select any component from the sorted list.

A    ABC\_WAVE

## Tuning aid

**1** Press **<MODE>** to select “Tuning Mode (Tuning aid)”.

Tuning Mode  
Tuning aid

**2** Press **<TUNING>** to display the frequency of the ensemble that you want to receive.

```
>11D 222.06MHz
```

**3** Press **ENTER** to display the signal strength for that ensemble.

- Move antenna while watching the display and to try to raise the current level to the ">" mark.

```
>>>>>>>>>>>
11D 222.06MHz
```

**4** Press **ENTER** to display the first channel on this ensemble (Sounds comes out).

※ The tuning mode at this time is set to “Sorted list tuning mode”.

```
A  ABC_WAVE
```

### Sort mode (Sorting components)

- You can sort and list scanned components by Alphanumeric, S. component or programme type.
- You can then select the component you want to listen to from the list.

## Alphanumeric

The "S. Component" is sorted in alphanumerical order.

**1** Press **MENU** to select menu.

**2** Either turn **<SELECT>** or press [ $\Delta$   $\nabla$ ] to display the sort mode selection screen.

Sort Mode

**3** Press **ENTER** to set the sort mode.

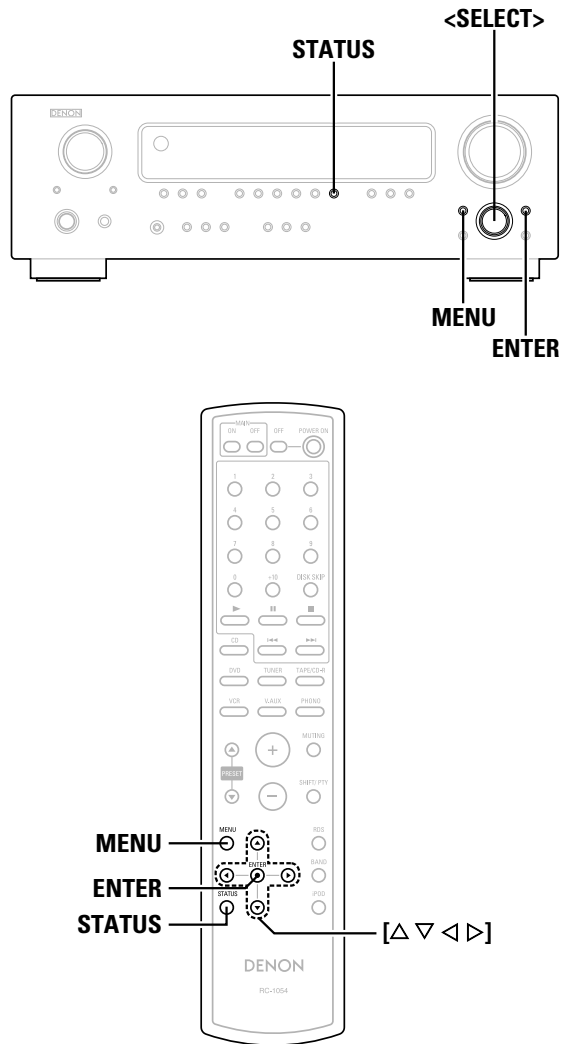
**4** Either turn **<SELECT>** or press [ $\Delta$   $\nabla$ ] to select “Sort Mode (Alphanumeric)”.

Sort Mode  
Alphanumeric

**5** Press **ENTER** to set the sort mode to “Sort Mode (Alphanumeric)”.

※ You can select any component from the sorted list.

```
A  ABC_WAVE
```



**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

**S. component**

- You can select a S.component for listening from the list of scanned S.components produced by using the “Tuning in DAB broadcasts” (page 17).
- The “S. Component” is sorted in the order of the Service component frequencies.

**1** Press **MENU** to select menu.

**2** Either turn **<SELECT>** or press [**Δ ∇**] to display the sort mode selection screen.

**3** Press **ENTER** to set the sort mode.

**4** Either turn **<SELECT>** or press [**Δ ∇**] to select “Sort Mode (S. Component)”.

Sort Mode  
S.Component

**5** Press **ENTER** to set the sort mode to “Sort Mode (S. Component)”.

※ You can select any component from the sorted list.

**PTY**

The “S. Component” is sorted in the order of the Programme Type.

**1** Press **MENU** to select menu.

**2** Either turn **<SELECT>** or press [**Δ ∇**] to display the sort mode selection screen.

**3** Press **ENTER** to set the sort mode.

**4** Either turn **<SELECT>** or press [**Δ ∇**] to select “Sort Mode (Programme Type)”.

Sort Mode  
Programme Type

**5** Press **ENTER** to set the sort mode to “Sort Mode (Programme Type)”.

※ You can select any component from the sorted list.



## Operation

## Switching the DAB information display

**1** Follow steps 1 to 9 under “Tuning in DAB (Digital Audio Broadcasting) broadcasts” (page 17) to tune in a DAB station.

**2** Press **STATUS** to switch the DAB reception information.

※ The display switches as shown below each time the DISPLAY button is pressed.

① **DLS** (Dynamic Label Segment) :

The text data included in the broadcast scrolls.

```
A  ABC WAVE
*This Program w
```

② **Ensemble Name** :

The ensemble name is displayed.

```
A  ABC WAVE
Ensemble Label
```

③ **PTY** (Programme Type) :

The category of the broadcast being received is displayed.

```
A  ABC WAVE
PTY NEWS
```

④ **Channel and Frequency** :

The frequency is displayed.

```
A  ABC WAVE
12C 227.36MHz
```

⑤ **Audio Information** :

The bit rate and mode of the broadcast being received is displayed.

```
A  ABC WAVE
192kbps Stereo
```

⑥ **Time and Date** :

The current time and date are displayed.

```
A  ABC WAVE
14:41 18/11/06
```

⑦ **Bit Error Rate** :

Noise may be generated and reception quality may become poor at bit error rates above 0.05. If a rate above 0.05 is displayed, move the antenna in different directions to find a position where the rate displayed is less 0.05.

```
A  ABC WAVE
BER:0.00210
```

## Operation

## DRC (Dynamic Range Control)

- The DRC (Dynamic Range Control) function lets you change the dynamic range of the received sound depending on the content of the broadcast so that the sound is easier to hear even when the volume is low.

**1** Press **MENU** to select menu.

**2** Either turn **<SELECT>** or press [**Δ ▽**] to select “DRC value”.

**3** Press **ENTER**.

**4** Either turn **<SELECT>** or press [**Δ ▽**] to select “ON” or “OFF”.

```
DRC Value
DRC OFF
```

**DRC OFF:**

DRC is switched off.

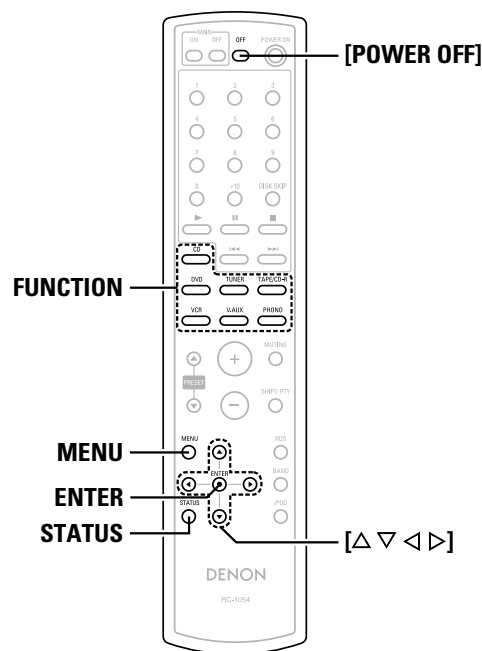
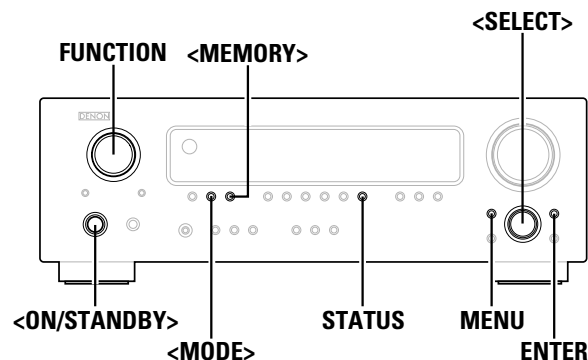
Any DRC level broadcast will be ignored. This is the default setting.

**DRC ON:**

Applies DRC level as sent with the broadcast.

- ※ This is effective when in a noisy environment and in quiet sections of broadcast programmes.  
The broadcast's DRC level is set at the broadcast station.  
The DRC can be changed to achieve the optimum level.

**5** Press **ENTER**.



#### 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

### 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-700AE/700AEDAB and play them.

#### 1 Press MENU.

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

##### None:

This is the factory default setting.

##### DVD, V.A, VCR, CDR, 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.

#### 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-700AE/700AEDAB.
- Some of the functions may not operate, depending on the type of iPod and the software version.

### Listening to music

#### 1 Connect the DRA-700AE/700AEDAB and iPod using the Control Dock for iPod (ASD-1R) (page 9).

#### 2 Assign the input terminal at "Setting the iPod Assignment".

#### 3 Use FUNCTION to select the function assigned in step 2.

- Display "Remote iPod" on the main unit's display.

Remote iPod

※ 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.

## Operation

## 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 [**△ ▽**] to select the music file, then press **ENTER** or [**▷**].

※ Press [**◀**] or **MENU** 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 [**△ ▽**] during playback.

- **△**: Fast reverse
- **▽**: Fast forward

### Track search:

Press [**△ ▽**] during playback.

- **△**: 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>**, [**△ ▽ ◀ ▶**], 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-700AE/700AEDAB. 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-700AE/700AEDAB it is possible to display folder names and file names on the screen like titles. The DRA-700AE/700AEDAB can display up to 64 characters, consisting of numbers, capital letters and small letters. A "?" mark is displayed in place of non-compatible characters.

## 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-700AE/700AEDAB'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.



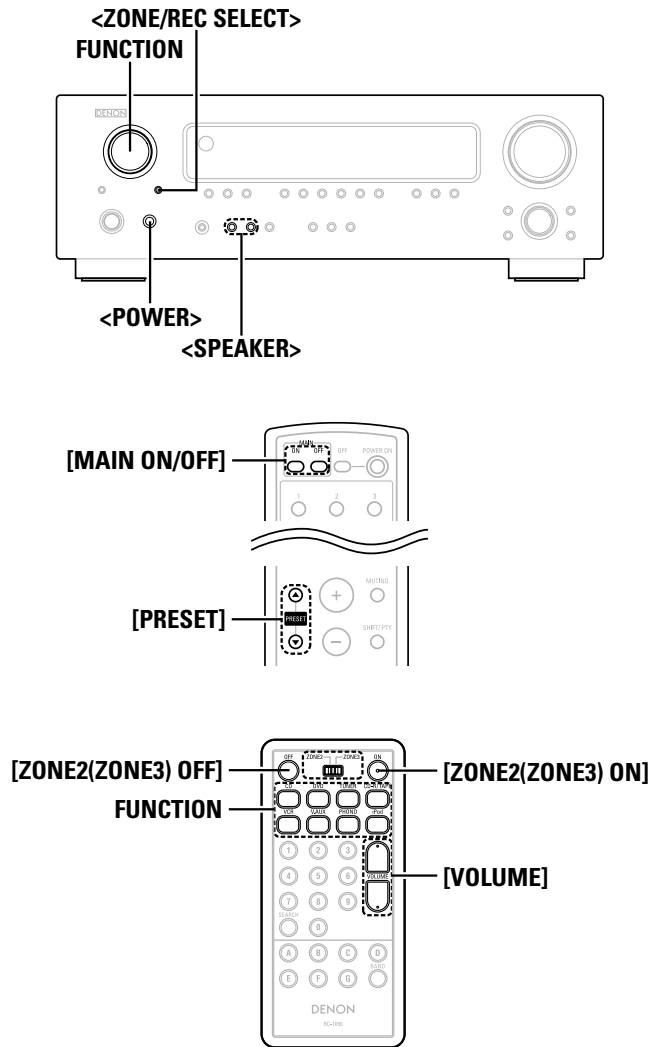
- To output photo or video data recorded on the iPod to the monitor, the iPod's "TV Out" setting (under "Video Settings") must be set to "ON".  
For details, refer to the iPod's operating instructions.

## Disconnecting the iPod

Press **<ON/STANDBY>** or [**POWER OFF**] and set the DRA-700AE/700AEDAB'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.

## 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

## Multi zone music entertainment system

- When the outputs of the ZONE2 (ZONE3) OUT terminals are wired and connected to power amplifiers installed in other rooms, different sources can be played in rooms other than the MAIN ZONE in which this unit and the playback devices are installed. (Refer to ZONE2 (ZONE3) on the diagram below.)
- When a sold separately room-to-room remote control unit is wired and connected between the MAIN ZONE and ZONE2 (ZONE3), the remote-controllable devices in the MAIN ZONE can be controlled from ZONE2 (ZONE3) using the remote control unit.
- ※ To control playback devices other than the ones above, either use that device's remote control unit or preset a separately sold programmable remote control unit.



- For instructions on installation and operation of separately sold devices, refer to the devices' operating instructions.

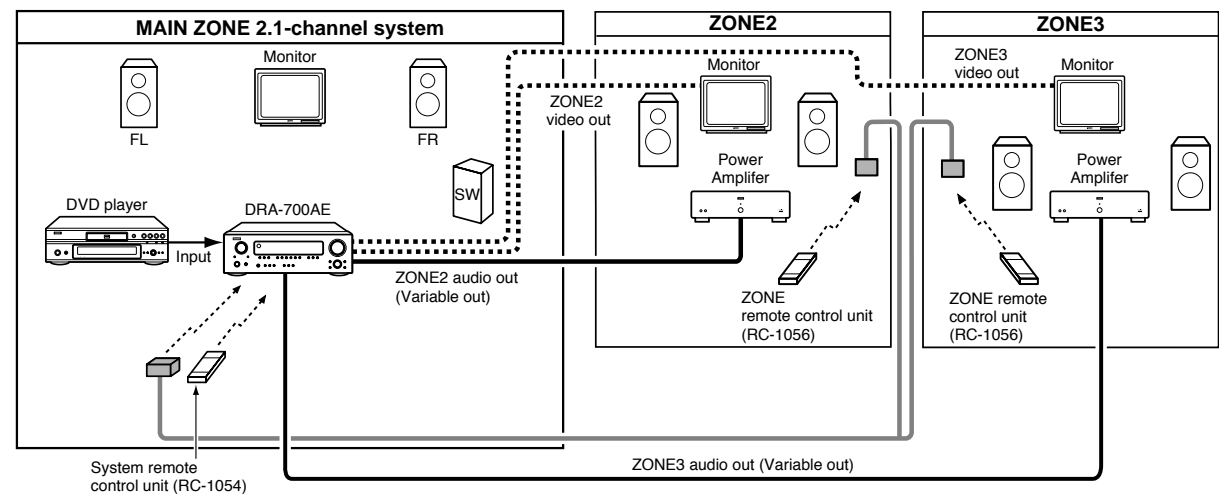
## Multi-zone playback using the ZONE2 and ZONE3 PREOUT terminals

### □ When using the power amplifier as the MAIN ZONE output

- The DRA-700AE/700AEDAB is equipped with pre-out terminals for which the volume is adjustable and video output terminals (composite) as the ZONE2 (ZONE3) output terminals, and variable output level as the ZONE2 (ZONE3) output terminals.

### [System configuration and connections example]

Using external amplifier.



- : Multi source video signal cable
- : Multi source audio signal cable
- : Room-to-room remote control system (separately sold) control line

※ Refer to "Connections" (page 9).

## Operation

**Outputting a program source to amplifier, etc., in the ZONE2 (or ZONE3) room (ZONE2 or ZONE3 SELECT mode)**

### 1 Press <ZONE/REC SELECT> to select “M-ZONE”.

M-ZONE ←→ RECOUT

### 2 Use FUNCTION to select the source you want to output appears on the display.

- The “**ZONE**” indicator and the indicator for the selected source light.

### 3 Start playing the source to be output.

- ※ For operating instructions, refer to the manuals of the respective components.



- The signals of the source selected in the ZONE mode are also output from the VCR and CD-R/TAPE recording output terminals.

**Remote control unit operations during multi-source playback**

### 1 Press [ZONE2 (ZONE3) ON] to turn on the zone power.

- ※ To cancel the ZONE2 or ZONE3 mode:  
Press [ZONE2 OFF] or [ZONE3 OFF].

### 2 Use [FUNCTION] to select the input source you wish to output.

- The “**ZONE**” indicator and the indicator for the selected source light.
- ※ The MULTI ZONE source switches directly.
- ※ When the MULTI ZONE SOURCE function is set to “TUNER”, the preset channel can be selected pressing [PRESET].

### 3 The volume of the outputs of the different zones can be adjusted with [VOLUME].

- ※ Default volume setting  
ZONE2/ZONE3: --- dB (Minimum)
- ※ The zone volume can be adjusted within the range of -80 to 18 dB, in steps of 0.5 dB.



- When using ZONE2 or ZONE3, it is possible to turn the power for the MAIN ZONE only on or off by pressing [MAIN ON/OFF].

**Recording (audio and/or video)**

### 1 Press <ZONE/REC SELECT> until “RECOUT” appears on the display.

M-ZONE ←→ RECOUT

### 2 Use FUNCTION to select the source to be recorded (audio and/or video).

- The “**REC**” indicator lights.

### 3 Record (the audio or video signals).

- ※ For operations, see the operating instructions of the device from which you are recording (audio or video signals).



- To cancel, press <ZONE/REC SELECT> and set the function to “ZONE”.

**NOTE:**

- When the REC OUT mode is selected, [ZONE2 (ZONE3) ON] and FUNCTION (ZONE) cannot be operated.

## Operation

**About the memory functions**

#### □ Last function memory

The various settings set when the DRA-700AE/700AEDAB'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"> <li>Power supply cord not plugged in securely.</li> </ul>	<ul style="list-style-type: none"> <li>Check the insertion of the power supply cord plug.</li> </ul>	10
Display lit but sound not produced.	<ul style="list-style-type: none"> <li>Speaker cables not securely connected.</li> <li>FUNCTION knob position is not appropriate.</li> <li>Volume control set to minimum.</li> <li>MUTING is on.</li> </ul>	<ul style="list-style-type: none"> <li>Connect securely.</li> <li>Switch to the proper position.</li> <li>Turn volume up to suitable level.</li> <li>Switch off MUTING.</li> </ul>	6 11 11 11
Nothing is displayed on monitor.	<ul style="list-style-type: none"> <li>DRA-700AE/700AEDAB's video output terminals and monitor's input terminals are not properly connected.</li> <li>Monitor's input setting is wrong.</li> </ul>	<ul style="list-style-type: none"> <li>Check that the connections are correct.</li> <li>Set the monitor's input selector to the terminals to which video signals are connected.</li> </ul>	6, 7 —
Copying from DVD to VCR is not possible.	<ul style="list-style-type: none"> <li>Copying between a source such as DVD and a VCR is not usually possible, as DVDs are often encoded with copy-protection signals that prevent VCR recording.</li> </ul>	<ul style="list-style-type: none"> <li>Copying is not possible.</li> </ul>	—
No sound is produced from subwoofer.	<ul style="list-style-type: none"> <li>Subwoofer's power is not on.</li> <li>Subwoofer's output is not connected.</li> <li>The subwoofer's channel volume level is set to "–12 dB".</li> </ul>	<ul style="list-style-type: none"> <li>Turn on the power.</li> <li>Connect properly.</li> <li>Turn the subwoofer's channel volume level up.</li> </ul>	— 6 12

## Troubleshooting

Symptom	Cause	Measures	Page
This unit does not operate properly when remote control unit is used.	<ul style="list-style-type: none"> <li>Batteries dead.</li> <li>Remote control unit too far from this unit.</li> <li>Obstacle between this unit and remote control unit.</li> <li>Different button is being pressed.</li> <li>⊕ and ⊖ ends of batteries inserted in reverse.</li> </ul>	<ul style="list-style-type: none"> <li>Replace with new batteries.</li> <li>Move closer.</li> <li>Remove obstacle.</li> <li>Press the proper button.</li> <li>Insert batteries properly.</li> </ul>	2 2 — — 2
Power has turned off and the power indicator is blinking red.	<ul style="list-style-type: none"> <li>The set's internal temperature has risen and the protection circuit has been activated.</li> <li>The core wires of the speaker cables are touching each other or the DRA-700AE/700AEDAB's rear panel, activating the protection circuit.</li> <li>DRA-700AE/700AEDAB is malfunctioning.</li> </ul>	<ul style="list-style-type: none"> <li>Put the DRA-700AE/700AEDAB in a well-ventilated place.</li> <li>Turn off the power, then wait for the set to fully cool off before turning the power back on.</li> <li>Check the connections of all the speaker cables.</li> <li>Turn off the power and contact a DENON customer service center.</li> </ul>	6 6 6 6
Display says "Station not Available".	<ul style="list-style-type: none"> <li>Ensure that DAB coverage exists in your area.</li> </ul>	<ul style="list-style-type: none"> <li>Check that antenna is connected.</li> </ul>	8
I can not access secondary services.	<ul style="list-style-type: none"> <li>At the time of publishing this manual not many secondary services are available, this will increase as more DAB stations start broadcasting.</li> </ul>	<ul style="list-style-type: none"> <li>If a secondary service station is available, the secondary indicator "&gt;&gt;" will be displayed next to the station name.</li> </ul>	17
I hear a burbling sound on some stations.	<ul style="list-style-type: none"> <li>DAB like other digital media is good at producing quality audio from a low level signal, however if this signal, level is too low a "burbling" sound can sometimes be heard.</li> </ul>	<ul style="list-style-type: none"> <li>To reduce this try repositioning your antenna to gain maximum signal strength, alternatively available to the DRA-700AEDAB.</li> </ul>	8

# Specifications

## Audio section

### Power amplifier

<b>Rated output:</b>	80 W + 80 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)
<b>Output terminals:</b>	A or B 4 ~ 16 Ω/ohms
	A + B 8 ~ 16 Ω/ohms

### Analog

#### (LINE input-PRE OUT)

<b>Input sensitivity / input impedance:</b>	200 mV / 47 kΩ/kohms
<b>Frequency response:</b>	10 Hz ~ 100 kHz: +1, -3 dB (TONE DEFEAT ON)
<b>S/N:</b>	98 dB (IHF-A weighted) (TONE DEFEAT ON)
<b>Total harmonic distortion:</b>	0.009 % (-3 dB at rated output, 8 Ω/ohms) (1 kHz)
<b>Rated output:</b>	1.2 V

## Video section

### Standard video terminals

<b>Input / output level and impedance:</b>	1 Vp-p, 75 Ω/ohms
<b>Frequency response:</b>	5 Hz ~ 10 MHz — +1, -3 dB

## Tuner section

### AM/FM tuner

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

### DAB tuner (DRA-700AEDAB only)

<b>Frequency range:</b>	174.928 (5A) ~ 239.200 (13F) MHz (BAND III)
	1452.960 (LA) ~ 1490.624 (LW) MHz (L-BAND)
<b>Sensitivity:</b>	-97 dBm
<b>S/N:</b>	100 dB (IHF-A weighted)
<b>THD+N:</b>	0.01 % (1 kHz)
<b>Channel separation:</b>	87 dB (1 kHz)
<b>Selectivity:</b>	40 dB (at adjacent channel)
<b>Frequency response:</b>	+0.5/-0.5 dB (5 Hz ~ 20 kHz)
<b>Aerial terminal:</b>	75 Ω/ohm, F female

## General

<b>Power supply:</b>	AC 230 V, 50 Hz
<b>Power consumption:</b>	245 W
	1 W Max (Standby)
<b>Maximum external dimensions:</b>	434 (W) x 147 (H) x 417 (D) mm
<b>Mass:</b>	DRA-700AE: 9.7 kg
	DRA-700AEDAB: 9.9 kg

## Remote control unit (RC-1054)

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

## ZONE remote control unit (RC-1056)

<b>Batteries:</b>	R03/AAA Type (Two batteries)
<b>External dimensions:</b>	54 (W) x 115 (H) x 23 (D) mm
<b>Mass:</b>	80 g (included batteries)

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

## DAB frequency table (DRA-700AEDAB only)

### Band III (174 to 240 MHz)

Frequency	Level	Frequency	Level
174.928 MHz	5A	211.648 MHz	10B
176.640 MHz	5B	213.360 MHz	10C
178.352 MHz	5C	215.072 MHz	10D
180.064 MHz	5D	216.928 MHz	11A
181.936 MHz	6A	218.640 MHz	11B
183.648 MHz	6B	220.352 MHz	11C
185.360 MHz	6C	222.064 MHz	11D
187.072 MHz	6D	223.936 MHz	12A
188.928 MHz	7A	225.648 MHz	12B
190.640 MHz	7B	227.360 MHz	12C
192.352 MHz	7C	229.072 MHz	12D
194.064 MHz	7D	230.784 MHz	13A
195.936 MHz	8A	232.496 MHz	13B
197.648 MHz	8B	234.208 MHz	13C
199.360 MHz	8C	235.776 MHz	13D
201.072 MHz	8D	237.488 MHz	13E
202.928 MHz	9A	239.200 MHz	13F
204.640 MHz	9B		
206.352 MHz	9C		
208.064 MHz	9D		
209.936 MHz	10A		

### L-Band (1452 to 1490 MHz)

Frequency	Level
1452.960 MHz	LA
1454.672 MHz	LB
1456.384 MHz	LC
1458.096 MHz	LD
1459.808 MHz	LE
1461.520 MHz	LF
1463.232 MHz	LG
1464.944 MHz	LH
1466.656 MHz	LI
1468.368 MHz	LJ
1470.080 MHz	LK
1471.792 MHz	LL
1473.504 MHz	LM
1475.216 MHz	LN
1476.928 MHz	LO
1478.640 MHz	LP
1480.352 MHz	LQ
1482.064 MHz	LR
1483.776 MHz	LS
1485.488 MHz	LT
1487.200 MHz	LU
1488.912 MHz	LV
1490.624 MHz	LW



**DENON**

TOKYO, JAPAN  
[www.denon.com](http://www.denon.com)

Denon Brand Company, D&M Holdings Inc.  
Printed in China 00D 511 4542 006