

**DENON** *PROFESSIONAL*

**AM-FM STEREO TUNER**

**DN-U100**

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**OPERATING INSTRUCTIONS**

**BEDIENUNGSANLEITUNG**

**MODE D'EMPLOI**

**ISTRUZIONI PER L'USO**

**INSTRUCCIONES DE OPERACION**

**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.****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.

**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**

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.

**EENVORMIGHEIDSVERKLARING**

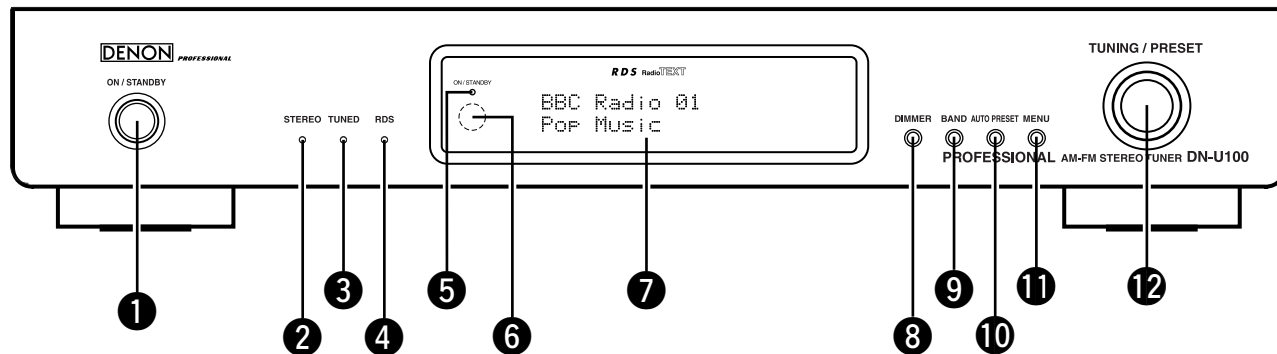
Wij verklaren uitsluitend op onze verantwoordelijkheid dat dit product, waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende normen: EN60065, EN55013, EN55020, EN61000-3-2 en EN61000-3-3.  
Volgens de bepalingen van de Richtlijnen 73/23/EEC, 89/336/EEC en 93/68/EEC.

**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.

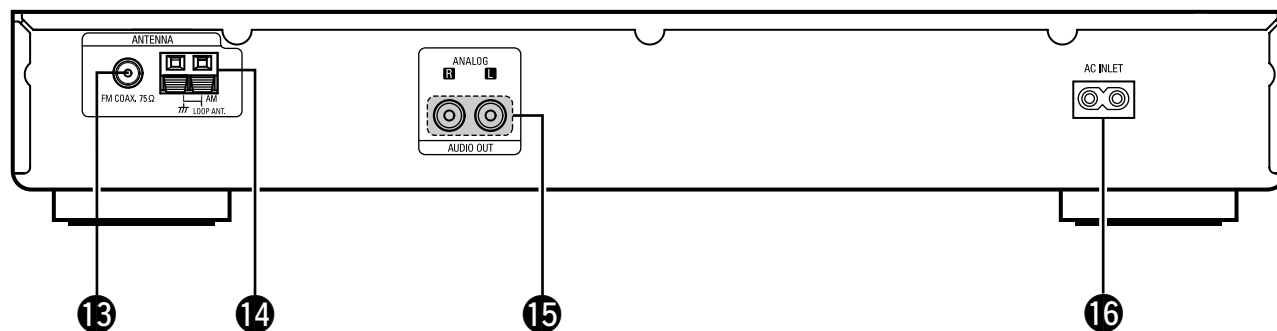
**FRONT PANEL  
VORDERSEITE  
PANNEAU AVANT  
PANNELLO ANTERIORE**

**PANEL DELANTERO  
FRONTPANEEL  
FRONTPANELEN**

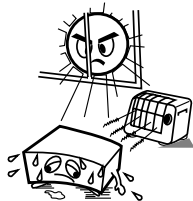


**REAR PANEL  
RÜCKSEITE  
PANNEAU ARRIÈRE  
PANNELLO POSTERIORE**

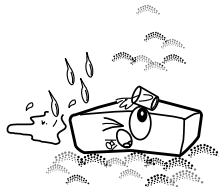
**PANEL TRASERO  
ACHTERPANEEL  
BAKPANEL**



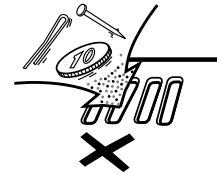
**NOTE ON USE / HINWEISE ZUM GEBRAUCH /  
OBSERVATIONS RELATIVES A L'UTILISATION / NOTE SULL'USO  
NOTAS SOBRE EL USO / ALVORENS TE GEBRUIKEN / OBSERVERA**



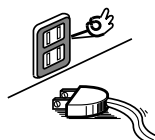
- Avoid high temperatures.  
Allow for sufficient heat dispersion when installed in a rack.
- Vermeiden Sie hohe Temperaturen.  
Beachten Sie, daß eine ausreichend Luftzirkulation gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird.
- Eviter des températures élevées  
Tenir compte d'une dispersion 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.



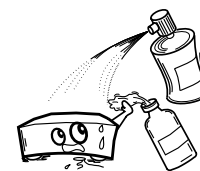
- Keep the apparatus free from moisture, water, and dust.
- Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern.
- Protéger l'appareil contre l'humidité, l'eau et la poussière.
- Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere.
- Mantenga el equipo libre de humedad, agua y polvo.
- Laat geen vochtigheid, water of stof in het apparaat binnendringen.
- Utsätt inte apparaten för fukt, vatten och damm.



- Do not let foreign objects into the apparatus.
- 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.



- Unplug the power cord when not using the apparatus 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.
- Disinnestate 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.



- Do not let insecticides, benzene, and thinner come in contact with the apparatus.
- 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 ververdunner met dit apparaat in contact komen.
- Se till att inte insektsmedel på spraybruk, bensin och thinner kommer i kontakt med apparatens hölje.



- 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.
- Maneggiate 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.



\* (For apparatuses 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 geblokkeerd.
- Täpp inte till ventilationsöppningarna.



- Never disassemble or modify the apparatus 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 modificeren.
- Ta inte isär apparaten och försök inte bygga om den.

**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.
- 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.
- 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 contenete 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.

**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.

# Getting Started

## Contents

### Getting Started

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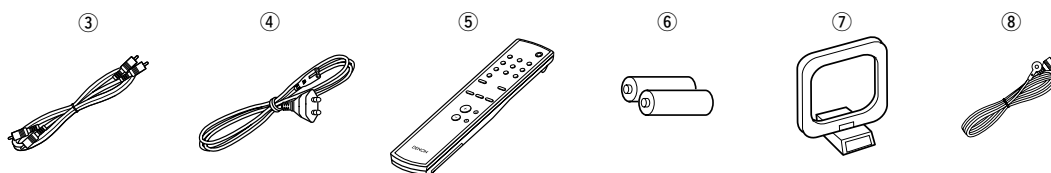
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## Accessories

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

① Operating instructions .....	1	⑤ Remote control unit (RC-1027) .....	1
② Service station list .....	1	⑥ R03/AAA batteries .....	2
③ Pin-plug cables .....	1	⑦ AM loop antenna .....	1
④ Power supply cord .....	1	⑧ FM indoor antenna .....	1



## Before using

We recommend you review the contents of this manual before proceeding with hookup and operation. This product is provided with immense array of features.

### 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.

#### • Before turning the power operation switch (ON/STANDBY) on

Check once again that all connections are proper and that there are not problems with the connection cables. Always unit the power switch 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 switch is in the STANDBY state, the unit is still connected to AC line voltage. Please be sure to turn off the power operation 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

Noise or disturbance of the picture may be generated if this unit or any other electronic equipment using microprocessors is used near a tuner or TV.

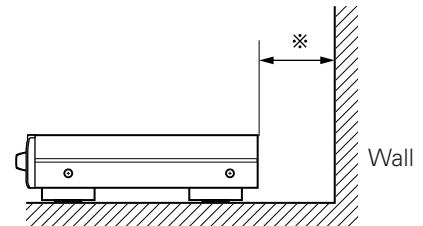
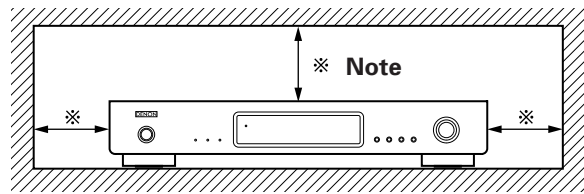
If this happens, take the following steps:

- Install this unit as far away as possible from the tuner or TV.
- Run the antenna wires from the tuner or TV away from this unit's power supply cord and input/output connection cables.
- Noise or disturbance tends to occur particularly when using indoor antennas or 300  $\Omega$ /ohms feeder wires.

**We recommend using outdoor antennas and 75  $\Omega$ /ohms coaxial cables.**

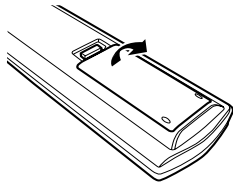
### Note:

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

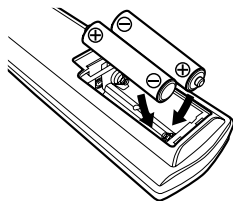


## Inserting the batteries

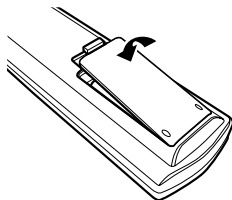
- ① Remove the remote control unit's rear cover.



- ② Set two R03/AAA batteries in the battery compartment in the indicated direction.



- ③ Put the rear cover back on.

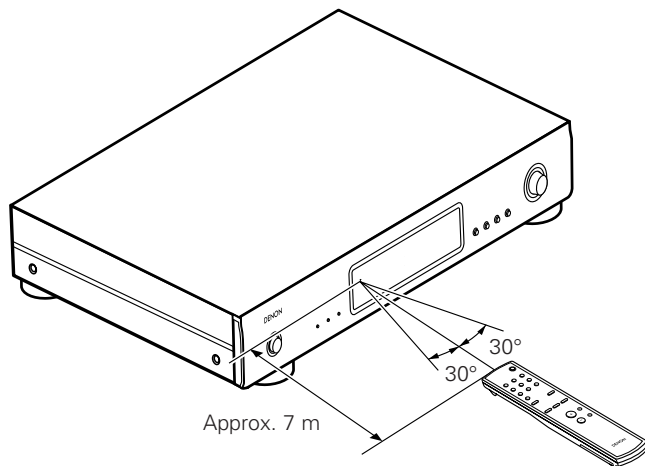


### Notes on batteries:

- Replace the batteries with new ones if the unit does not operate even when the remote control unit is operated nearby the unit. (The included batteries are only for verifying operation.)
- When inserting the batteries, be sure to do so in the proper direction, following the "+" 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.
- 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.

## Getting Started

## Operating range of the remote control unit



- Point the remote control unit at the remote sensor on the main unit as shown in the diagram.
- The remote control unit can be used from a straight distance of approximately 7 meters from the main unit, but this distance will be shorter if there are obstacles in the way or if the remote control unit is not pointed directly at the remote sensor.
- The remote control unit can be operated at a horizontal angle of up to 30 degrees with respect to the remote 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.
- Do not press buttons on the main unit and remote control unit simultaneously. Doing so may result in malfunction.
- Neon signs or other devices emitting pulse-type noise nearby may result in malfunction, so keep the unit as far away from such devices as possible.



## Part names and functions

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

### Front panel

#### 1 Power operation switch (ON/STANDBY)

When pressed, the power turns on and the display lights. The muting mode is set for several seconds, after which the DN-U100 will function normally.

When pressed again, the power is set to the "standby" mode and the display turns off.

#### 2 STEREO indicator

In the AUTO mode, this lights when a stereo broadcast is tuned in. (☞ page 9)

#### 3 TUNED indicator

This lights when the strength of the reception frequency is at or above a specific level. (☞ page 9)

#### 4 RDS indicator

This lights when receiving RDS broadcasts, and flashes during the RDS search. (☞ page 11 ~ 14)

#### 5 ON/STANDBY indicator

This lights when the DN-U100's power is in the "on" or "standby" mode.

#### 6 Remote control sensor

This is the remote control signal sensor.

#### 7 Display

#### 8 DIMMER button

The display's brightness can be adjusted in three steps. Press this button to switch the brightness between high, medium and low, in that order.

#### 9 BAND button

Press this button to switch the band between FM and AM. (☞ page 9)

#### 10 AUTO PRESET button

When pressed while the FM band is set, the DN-U100 searches for stations that can be received in stereo and up to 100 stations are automatically stored at the preset channels. (The stations are stored in order starting from channel A1.) (☞ page 8)

#### 11 MENU button

Press this button to set the MENU mode. (☞ page 10 ~ 15)

#### 12 TUNING/PRESET knob

When in the tuning mode, use this knob to raise or lower the frequency. Turn the knob clockwise to raise the frequency, counterclockwise to lower the frequency. Use the knob together with the **MENU** button to switch the mode setting. (☞ page 10 ~ 16)



- Whenever the unit is in the STANDBY state, the unit is still connected to AC line voltage. Please be sure to unplug the power supply cord when you leave home for, say, a vacation.
- Noise may be generated if a nearby television set is on during the broadcasting reception. The tuner should be used as far away from a television as possible.
- The unit is also equipped with a back-up memory. This function provides memory storage when the power switch is off and with the power supply cord disconnected.

### Rear panel

#### 13 FM antenna terminals

##### (ANTENNA TERMINAL FM)

75 Ω/ohms coaxial cables can be connected to these terminals. For the connection procedure, see the section "Connections". (☞ page 6)

#### 14 AM antenna terminals

##### (ANTENNA TERMINAL AM)

Connect the included AM loop antenna. (☞ page 6)  
Connect with this terminal when a medium wave outdoor antenna is used.

#### 15 Analog output jacks

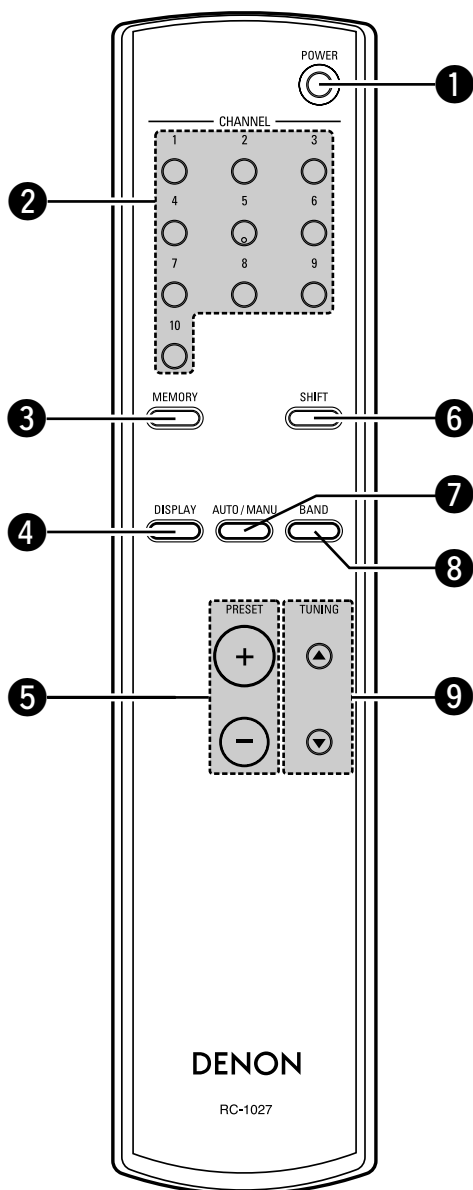
Connect these to the TUNER input terminals on the pre-main amplifier. (☞ page 7)

#### 16 AC Inlet

Connect the included power supply cord here. (☞ page 7)

## Getting Started

## Remote control unit

**1 POWER button**

Press this button to switch from the standby mode to the operating mode. (☞ page 8, 16)

**2 CHANNEL buttons (1 ~ 10)**

Use these when presenting and recalling stations. Also use these with the **SHIFT** and **MEMORY** buttons to use a total of 100 preset channels, A (1 ~ 10), B (1 ~ 10), ... J (1 ~ 10). (☞ page 10)

**3 MEMORY button**

Frequencies and station names can be stored in the memory. When this button is pressed, the "MEMO" and "CH" indicator on the display flashes for 10 seconds. Use the **SHIFT** and the **CHANNEL** buttons during this time to designate the desired preset channel. (☞ page 10)

**4 DISPLAY button**

This button is used to select the display mode. (☞ page 11, 15)

**5 PRESET buttons**

This button is used to select radio presets. (☞ page 10)

**6 SHIFT button**

Use this button to select the memory blocks, A (1 ~ 10), B (1 ~ 10), ... J (1 ~ 10). (☞ page 10)

**7 AUTO/MANU button**

Use this button to select the auto tuning mode or manual tuning mode.

In the auto tuning mode, press the **TUNING** button, the automatic searching begins, then stops when a station is tuned in. In the manual tuning mode, press the **TUNING** button, the frequency changes continuously. (☞ page 9)

**8 BAND button**

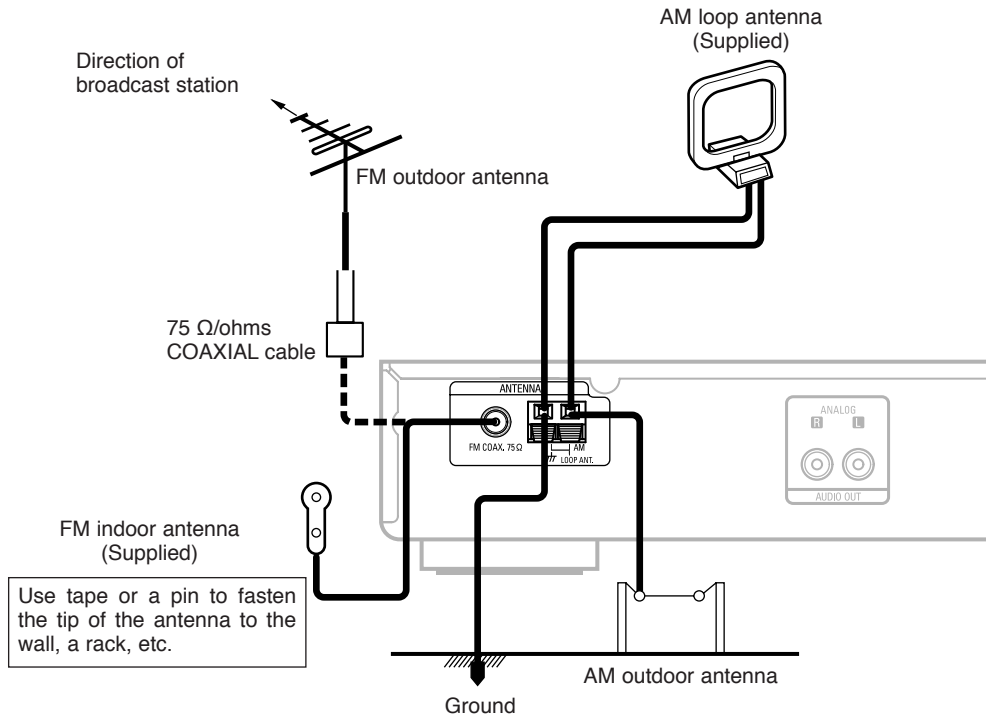
Select FM or AM. (☞ page 8, 9, 16)

**9 TUNING buttons**

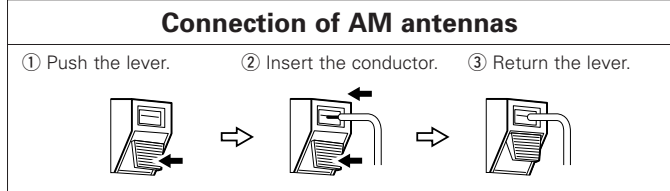
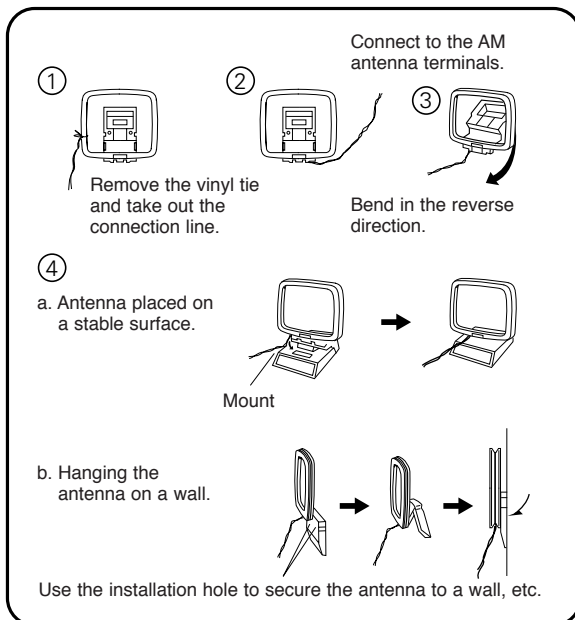
Use these to change the received frequency to a higher frequency (▲) or a lower frequency (▼). (☞ page 9)

# Connections

## Connecting the antenna terminals



### AM loop antenna assembly












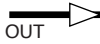
**NOTE:**

- 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.

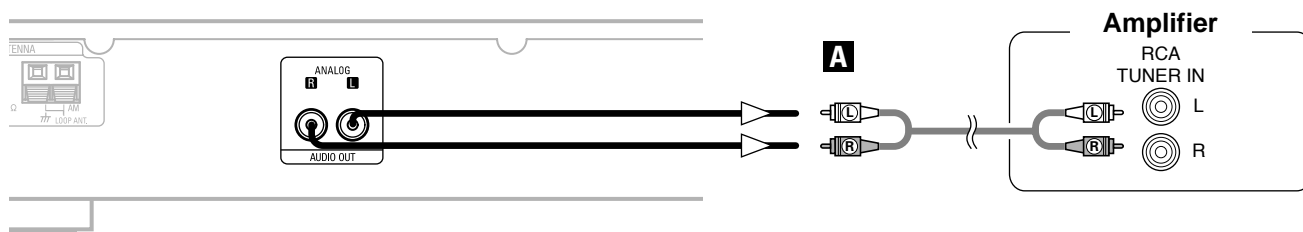
Connections

Cable indications

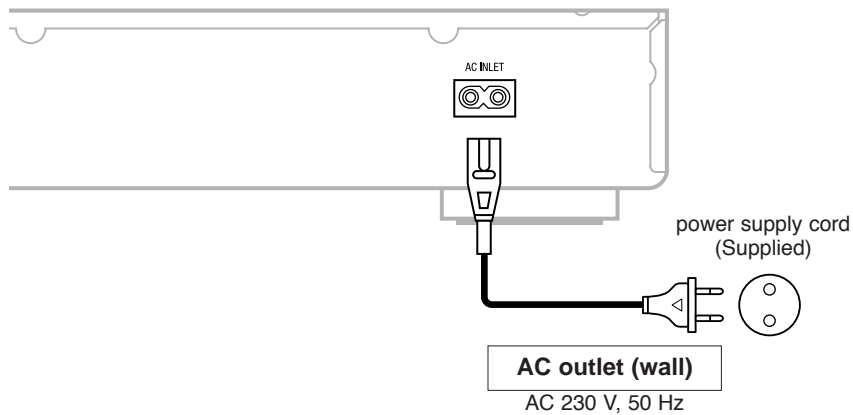
The hookup diagrams on the subsequent pages assume the use of the following optional connection cables.

Audio cable	Signal direction
<p><b>A</b> Analog terminal (Stereo) (To amplifier)</p> <p>L (White)    </p> <p>R (Red)    </p> <p>Pin-plug cables</p>	<p>Audio signal</p> <p> IN      OUT       OUT      IN</p>

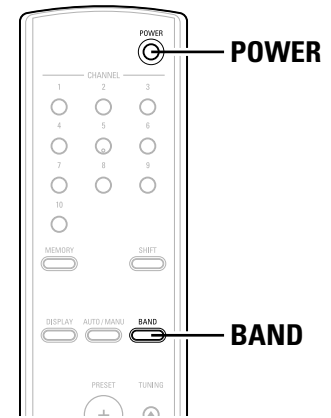
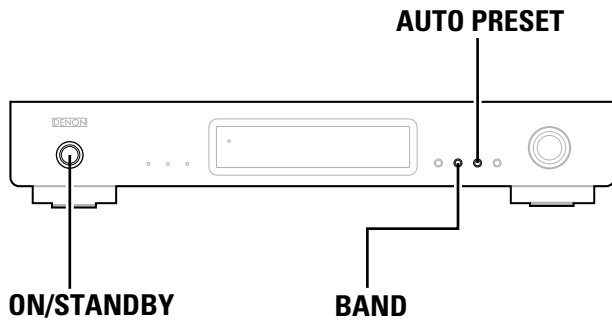
Connecting the amplifier



Connecting the power supply cord



# Operation



## Turning the power on

### Setting the power to the "on" mode

Press the **ON/STANDBY** or **POWER** button.

- The display lights and the DN-U100 becomes operable.

### Setting the power to the "standby" mode

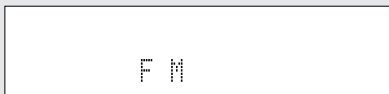
When the power is in the "on" mode, press the **ON/STANDBY** or **POWER** button.

- The power is set to the "standby" mode.

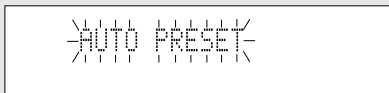
## Listening to FM/AM

### FM auto preset memory

**1** Press the **BAND** button to select "FM" band.



**2** Press the **AUTO PRESET** button.



- The auto preset mode is set and the "AUTO PRESET" indicator on the display flashes.
- FM broadcast stations are automatically searched for and stored in order at the preset channels, starting from "A1".
- 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 A10, B1 to B10, C1 to C10, D1 to D10, E1 to E10, F1 to F10, G1 to G10, H1 to H10, I1 to I10 and J1 to J10 for a maximum of 100 stations.

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

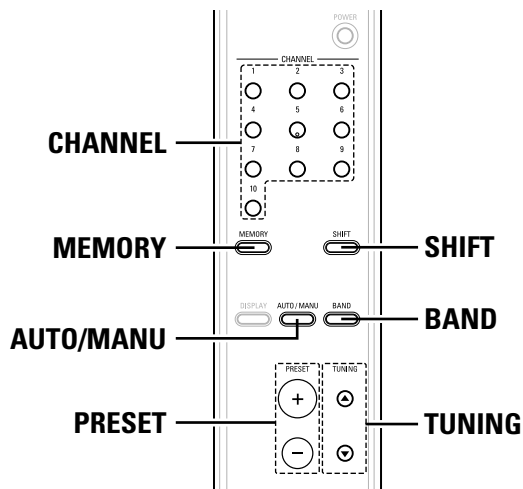
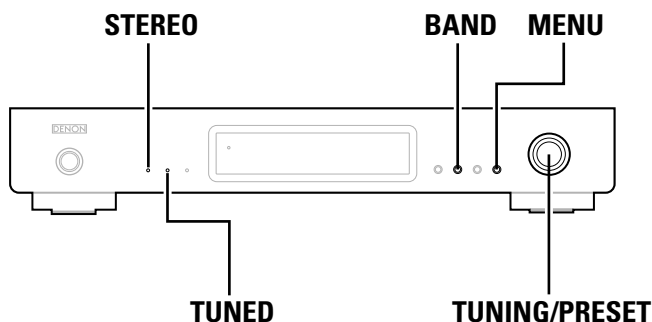


- If a station's signal is too weak to tune in using auto preset mode, preset it manually. (📖 page 10)

### DEFAULT VALUE

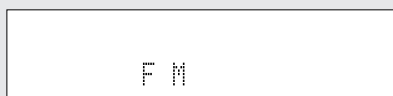
Auto tuner presets	
A1 ~ A10	87.5 / 89.1 / 98.1 / 108 / 90.1 / 90.1 / 90.1 / 90.1 / 90.1 / 90.1 MHz
B1 ~ B10	522 / 603 / 999 / 1404 / 1611 kHz, 90.1 / 90.1 / 90.1 / 90.1 / 90.1 MHz
C1 ~ C10	90.1 MHz
D1 ~ D10	90.1 MHz
E1 ~ E10	90.1 MHz
F1 ~ F10	90.1 MHz
G1 ~ G10	90.1 MHz
H1 ~ H10	90.1 MHz
I1 ~ I10	90.1 MHz
J1 ~ J10	90.1 MHz

Operation

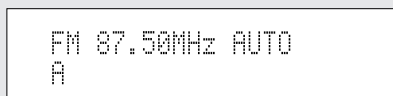


Auto tuning (FM/AM)

- 1 Press the **BAND** button to select “FM” or “AM”.



- 2 Press the **AUTO/MANU** button to set “AUTO”.
  - When the auto tuning mode is set, “AUTO” appears to the right of the frequency on the display.



- 3 Press the **TUNING ▲, ▼** button.
  - Auto tuning starts.
  - Press the **TUNING ▲** button to automatically switch to higher frequencies, the **TUNING ▼** button to automatically switch to lower frequencies.



- The **TUNED** indicator lights and tuning stops when a frequency whose strength is at or above a specific level is tuned in.
- The **STEREO** indicator lights when a stereo broadcast is received on the FM band.

Manual tuning (FM/AM)

- 1 Press the **BAND** button to select “FM” or “AM”.

- 2 Press the **AUTO/MANU** button to set the manual tuning mode.
  - When the manual tuning mode is set, the word “AUTO” shown to the right of the frequency on the display turns off.



- 3 Press the **TUNING ▲, ▼** button.
  - Press and hold in the **TUNING ▲** button to move to higher frequencies, the **TUNING ▼** button to move to lower frequencies.



- Use the manual tuning mode to tune in stations whose signal is too weak to tune in using the auto tuning mode.
- In the manual tuning mode, the signals are forcibly set to monaural, and the **STEREO** indicator does not light even when receiving stereo broadcasts on the FM band.

**Preset stations (FM/AM)**

- Before starting, tune in the station you want to preset.

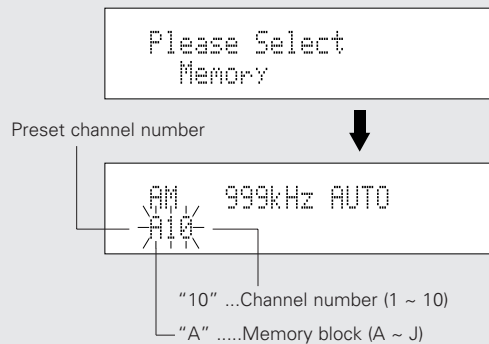
**Operations on the main unit**

**1 Press the MENU button.**

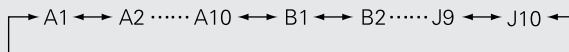
- The menu is displayed for 5 seconds.

**2 While the menu is displayed, turn the TUNING/PRESET knob to select “Memory”, then press the TUNING/PRESET knob.**

- The preset mode is set and the preset channel number flashes for about 15 seconds.



**3 While the preset channel number is flashing, turn the TUNING/PRESET knob and select the desired preset channel number.**



**4 Press the TUNING/PRESET knob.**

- The station currently tuned in is stored at the selected preset channel number.
- To preset other stations, repeat steps 1 to 4.
- A total of 100 stations, FM and AM included, can be preset.



- If a station is preset at a channel number at which a different station is already preset, the previously stored station is cleared and the new station is preset in its place.

**Operations on the remote control unit**

**1 Press the MEMORY button.**

- The preset mode is set.

**2 Select the preset channel number.**

- Press the **SHIFT** button to select the memory block and use the **CHANNEL** buttons to select the channel number.
- The preset channel number can also be selected using the **PRESET +** and **-** buttons.

**3 Press the MEMORY button.**

- The station is preset.

**Recalling preset stations (FM/AM)**

**Operations on the main unit**

**1 Press the MENU button.**

**2 Turn the TUNING/PRESET knob to select “Search Mode”, then press the TUNING/PRESET knob.**

Please Select  
Search Mode

**3 Turn the TUNING/PRESET knob to select “Preset”, then press the TUNING/PRESET knob.**

- The preset search mode is set.

Search Mode  
Preset

**4 Turn the TUNING/PRESET knob to select the preset channel number.**

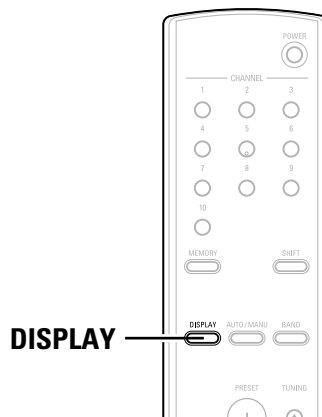
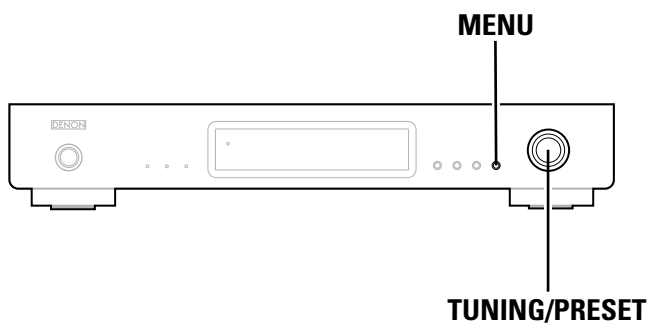
FM107.95MHz AUTO  
A1

**Operations on the remote control unit**

**Select the preset channel number.**

- Press the **SHIFT** button to select the memory block and use the **CHANNEL** buttons to select the channel number.
- The preset channel number can also be selected using the **PRESET +** and **-** buttons.

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 programme signal.
- The following three types of RDS information can be received with this unit:

**Programme Type (PTY)**

- PTY identifies the type of RDS programme.
- The programme types and their displays are as follows:

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

**Traffic Programme (TP)**

- TP identifies programmes 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.



- The operations described below pressing the **DISPLAY** button 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** Press the **MENU** button to select menu.

**2** Turn the **TUNING/PRESET** knob to display “RDS”.

Please Select  
RDS

**3** Press the **TUNING/PRESET** knob.

**4** Turn the **TUNING/PRESET** knob to display “RDS Search”.

RDS Search

**5** Press the **TUNING/PRESET** knob to set the RDS search standby mode.

<Search Start>

**6** Turn the **TUNING/PRESET** knob clockwise or counterclockwise just one step.

RDS Search

- To automatically begin the RDS search operation.
- The RDS indicator flashes.

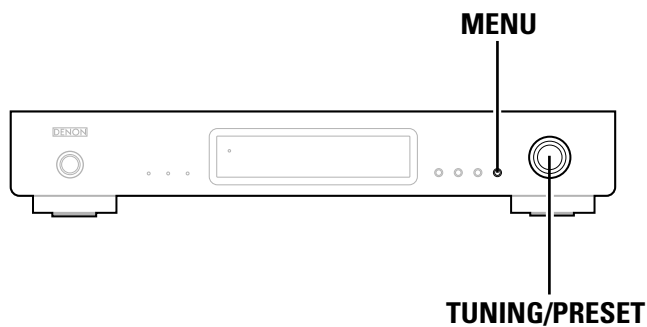
- ※ If no RDS station are found with the above operation, all the reception bands are searched.
- ※ When a broadcast station is found, that station's name appears on the display.

**7**

NO RDS

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

## Operation



### PTY search

- Use this function to find RDS stations broadcasting a designated programme type (PTY).
- For a description of each programme type, refer to "Programme Type (PTY)" (☞ page 11).

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

**2** Turn the **TUNING/PRESET** knob to display "RDS".

**3** Press the **TUNING/PRESET** knob to set the RDS search selection mode.

**4** Turn the **TUNING/PRESET** knob to display "PTY Search".

PTY Search

**5** Press the **TUNING/PRESET** knob to set the PTY search selection mode.

**6** Watching the display, turn the **TUNING/PRESET** knob to call out the desired programme type.

PTY NEWS

- ※ When receiving an RDS station, its programme type is displayed first.  
When not receiving an RDS station, "PTY" flashes.

**7** Press the **TUNING/PRESET** knob to set the PTY search standby mode.

<Search Start>

**8** Turn the **TUNING/PRESET** knob clockwise or counterclockwise just one step.

PTY Search

- To automatically begin the PTY search operation.
- The RDS indicator flashes.

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

**9**

NO Programme

- ※ If no other station broadcasting the designated programme type is found when all the frequencies are searched, "NO Programme" is displayed.

**TP search**

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

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

**2** Turn the **TUNING/PRESET** knob to display “RDS”.

**3** Press the **TUNING/PRESET** knob to set the RDS search selection mode.

**4** Turn the **TUNING/PRESET** knob to display “TP Search”.

TP Search

**5** Press the **TUNING/PRESET** knob to set the TP search standby mode.

<Search Start>

**6** Turn the **TUNING/PRESET** knob clockwise or counterclockwise just one step.

TP Search

- To automatically begin the TP search operation.
- The RDS indicator flashes.

- ※ 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.

**7**

NO Programme

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

**RT (Radio Text)**

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

**2** Turn the **TUNING/PRESET** knob to display “RDS”.

**3** Press the **TUNING/PRESET** knob to set the RDS search selection mode.

**4** Turn the **TUNING/PRESET** knob to display “RT ON/OFF”.

RT ON/OFF

**5** Press the **TUNING/PRESET** knob to set the RT ON/OFF selection mode.

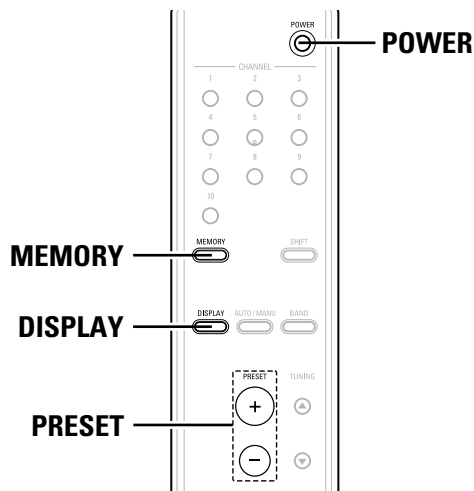
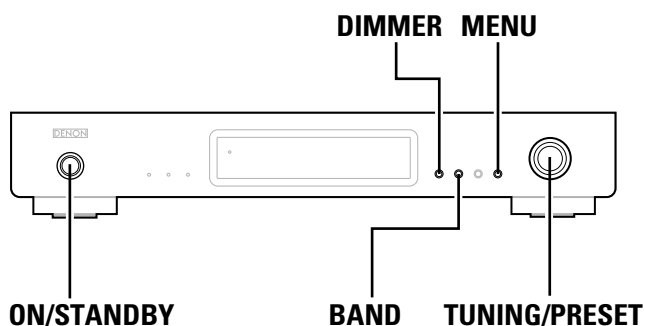
**6** Turn the **TUNING/PRESET** knob to choose the “RT ON” or “RT OFF”.

RT ON

**7** Press the **TUNING/PRESET** knob to set whether to enable or stop the **RADIO TEXT** function.

- ※ If no text data is being broadcasted, “NO TEXT DATA” is displayed.

Operation



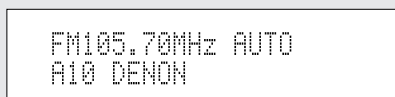
Switching RDS information display

**1** Use the procedure described at “Auto tuning”, “Recalling preset stations” or “RDS search” to tune in a frequency with an RDS station.

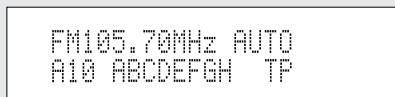
**2** Press the **DISPLAY** button to switch the RDS reception information.

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

① **STATION NAME :**  
Only displayed when the search mode is set to PRESET and the station name has been registered.

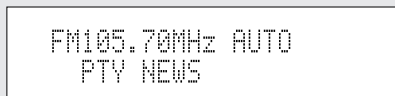


② **PS :**  
The programme service name and frequency of the station tuned in is displayed.

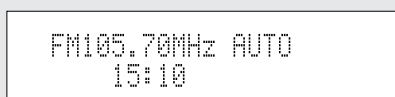


The above is an example for when there is TP data but no RT data.

③ **PTY :**  
The programme type of the tuned in broadcast is displayed.



④ **CT :**  
The current time is displayed.



• When the “STATION NAME” is not registered, ① is not displayed.

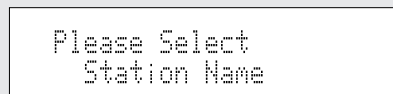
Registering station names

**1** Select the station whose name you want to set.

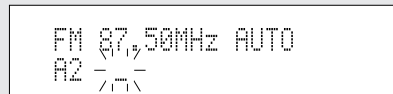
**Example:** To register “DENON” as the FM station name at preset channel “A2”.

**2** Press the **MENU** button.

**3** Turn the **TUNING/PRESET** knob to select “Station name”.



**4** Press the **TUNING/PRESET** knob.  
• The station name input mode is set.



**5** Either turn the **TUNING/PRESET** knob or press the **PRESET** button and select “D”.

**6 Press the TUNING/PRESET knob to set “D”.**

- The cursor “\_” starts flashing in the next place.
- Repeat steps 5 and 6 to input “E”, “N”, “O” and “N”, in that order.  
(Up to 8 characters can be input.)

```
FM 87.50MHz AUTO
A2 DENON
```

**7 Press the TUNING/PRESET knob for at least 2 seconds or press the MEMORY button to make preset channel “A2” flash.**

- When “\_” is flashing, preset channel “A2” can also be made to flash by pressing the **TUNING/PRESET** knob for at least 2 seconds or by pressing the **MEMORY** button.

**8 With channel “A2” flashing, press the TUNING/PRESET knob or the MEMORY button.**

- ※ The station name you have input is stored in the memory.
- ※ This procedure can be used to registered station names with up to 8 digits for up to 100 AM/FM stations at random.
- ※ The 63 characters below can be selected.
- ※ Overwrite a “\_” (Space) to erase an inputted character.

```
ABCDEF GHIJKLMNOPQRSTUVWXYZ
0123456789[\]^_!#$%&'()*
+,-./:;<=>? (space)
```

**Last function memory**

- The next time the power is set to the “on” mode, the DN-U100 is set to the same status (band, frequency, preset channel number, mode setting, etc.) as when the power was last set to the “standby” mode.
- The unit is also equipped with a back-up memory. This function provides memory storage when the power switch is off and with the power supply cord disconnected.

**Initialization of the microprocessor**

If the display or operation is abnormal, use the procedure described below to reset the microprocessor.

**1 Press the ON/STANDBY or POWER button to set the power to the “standby” mode, then unplug the DN-U100’s power supply cord from the power outlet.**

**2 While pressing both the DIMMER and BAND buttons, plug the DN-U100’s power supply cord into a power outlet.**

**3 Check that the entire display is flashing with an interval of about 1 second, and release your fingers from the 2 buttons.**

- The microprocessor will be initialized.



- If step 3 does not work, start over from step 1.
- When the microprocessor is reset, all the settings are restored to the factory default values.

# 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
Power does not turn on when ON/STANDBY switch is pressed.	<ul style="list-style-type: none"> <li>power supply cord's plug is not plugged in to wall outlet.</li> </ul>	<ul style="list-style-type: none"> <li>Plug the power supply cord in properly.</li> </ul>	7
Hissing noise is heard on FM broadcasts.	<ul style="list-style-type: none"> <li>Antenna cable is not properly connected.</li> <li>Antenna is not pointing in the right direction.</li> <li>Radio waves are weak.</li> </ul>	<ul style="list-style-type: none"> <li>Connect the leads properly.</li> <li>Point the antenna in the right direction.</li> <li>Install an outdoor antenna.</li> </ul>	6 6 6
Hissing or buzzing sound is heard on AM broadcasts.	<ul style="list-style-type: none"> <li>Noise from a TV or interference in the signals sent from the broadcast station.</li> </ul>	<ul style="list-style-type: none"> <li>Turn off the TV.</li> <li>Change the position of the loop antenna.</li> <li>Install an outdoor antenna.</li> </ul>	– 6 6
Booming sound (humming) is heard in AM broadcasts.	<ul style="list-style-type: none"> <li>Signals transmitted over the power supply cord are modulated by the power source frequency.</li> </ul>	<ul style="list-style-type: none"> <li>Insert the plug in the opposite direction.</li> <li>Install an outdoor antenna.</li> </ul>	– 6
Nothing happens when remote control buttons are pressed.	<ul style="list-style-type: none"> <li>Are the batteries dead?</li> <li>Is the remote control unit too far away?</li> <li>Is there an obstacle between the remote control unit and the main unit?</li> <li>You have pressed the wrong button.</li> <li>Batteries are not set in their proper direction (⊕ and ⊖).</li> </ul>	<ul style="list-style-type: none"> <li>Replace the batteries with new ones.</li> <li>Operate from closer to the main unit.</li> <li>Remove the obstacle.</li> <li>Press the desired button.</li> <li>Set the batteries in the proper direction.</li> </ul>	2 3 3 5 2
I can not get any sound.	<ul style="list-style-type: none"> <li>Power connected amplifier not turned on.</li> <li>Connection leads to amplifier not made correctly.</li> </ul>	<ul style="list-style-type: none"> <li>Turn on the amplifier properly.</li> <li>Connection leads to amplifier properly.</li> </ul>	– 7

# Specifications

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## FM tuner section

(Note:  $\mu\text{V}$  at  $75 \Omega/\text{ohms}$ ,  $0 \text{ dBf}=1 \times 10^{-15} \text{ W}$ )

- **Receiving range:** 87.5 MHz ~ 108.0 MHz
- **Antenna terminals:** 75  $\Omega/\text{ohms}$  Unbalanced
- **Usable sensitivity:** 1.0  $\mu\text{V}$  (11.2 dBf)  
1.2  $\mu\text{V}$  (IHF)
- **S/N 50 dB sensitivity**
  - Monaural:** 1.6  $\mu\text{V}$  (15.3 dBf)
  - Stereo:** 23  $\mu\text{V}$  (38.5 dBf)
- **Image interference ratio:** 80 dB
- **IF interference ratio:** 100 dB
- **AM suppression ratio:** 50 dB
- **Effective selectivity:** 50 dB ( $\pm 400 \text{ kHz}$ )
- **Capture ratio:** 2.0 dB
- **Frequency characteristics:** 20 Hz ~ 15 kHz: +0.5, -1.0dB
- **Signal-to-noise ratio**
  - Monaural:** 77 dB (IHF), 73 dB (DIN)
  - Stereo:** 72 dB (IHF), 68 dB (DIN)
- **Total harmonic distortion**
  - Mono 1 kHz (at 75 kHz dev.):** 0.15 %
  - Stereo 1 kHz (at 67.5 kHz dev.):** 0.3 %
- **Stereo separation 1 kHz (WIDE):** 43 dB

## AM tuner section

- **Receiving range:** 522 kHz ~ 1611 kHz
- **Antenna terminals:** Terminal type with loop antenna
- **Usable sensitivity:** 18  $\mu\text{V}$
- **Signal-to-noise ratio:** 53 dB

## Others

- Power supply:** AC 230 V, 50 Hz
- Power consumption:** 10 W
- Maximum external dimensions:** 434 (W) x 73 (H) x 286 (D) mm
- Mass:** 3.6 kg

## Remote control unit (RC-1027)

- Batteries:** 3 V DC, R03/AAA Type (two batteries)
- External dimensions:** 48 (W) x 219 (H) x 22 (D) mm
- Mass:** 105 g (including batteries)

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

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