



ROTEL®

RT-11 DAB/FM Stereo Tuner

Owner's Manual
Manuel de l'utilisateur
Bedienungsanleitung
Manual de Instrucciones
Gebruiksaanwijzing
Manuale di istruzioni
Instruktionsbok
Инструкция пользователя

CAUTION

RISK OF ELECTRIC SHOCK

DO NOT OPEN

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

This symbol is to alert the user to the presence of uninsulated dangerous voltages inside the product's enclosure that may constitute a risk of electric shock.

This symbol is to alert the user to important operating and maintenance (service) instructions in this manual and literature accompanying the product.

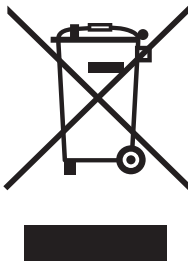
APPLICABLE FOR USA, CANADA OR WHERE APPROVED FOR THE USAGE

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT. INSERT FULLY.

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

This Class B digital apparatus complies with Canadian ICES-003.

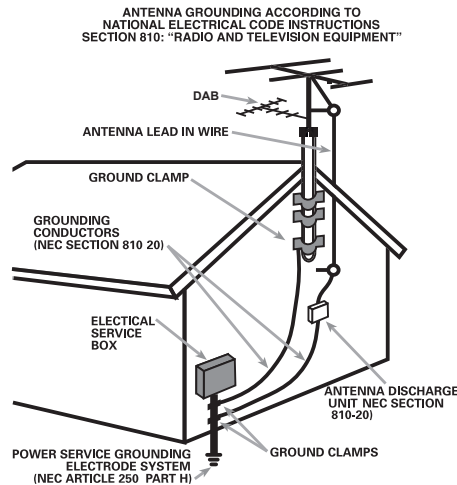
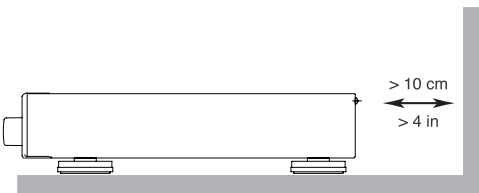
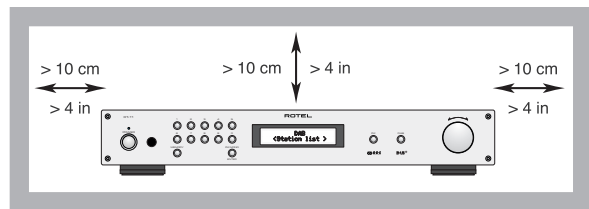
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.



Rotel products are designed to comply with international directives on the Restriction of Hazardous Substances (RoHS) in electrical and electronic equipment and the disposal of Waste Electrical and Electronic Equipment (WEEE). The crossed wheelie bin symbol indicates compliance and that the products must be appropriately recycled or processed in accordance with these directives.



This symbol means that this unit is double insulated. An earth connection is not required.



Notice

The rear mini USB connection should be handled by authorized persons only.

FCC Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.(TV, radio, etc.)
- Increase the separation between the equipment and receiver
- Connect the equipment to an outlet on circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for additional help.

Caution

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

NOTE TO CATV SYSTEM INSTALLER: Call the CATV system or antenna installer's attention to Article 820-40 of the NEC. This provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. See installation diagram.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause interference to radio or TV communications. There is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the unit and the television tuner.
- Connect the unit to an AC power outlet on a different electrical circuit.
- Consult your authorized Rotel retailer for assistance.

Important Safety Instructions

WARNING: There are no user serviceable parts inside. Refer all servicing to qualified service personnel.

WARNING: To reduce the risk of fire or electric shock, do not expose the unit to moisture or water. Do not expose the unit to dripping or splashing. Do not place objects filled with liquids, such as vases, on the unit. Do not allow foreign objects to get into the enclosure. If the unit is exposed to moisture, or a foreign object gets into the enclosure, immediately disconnect the power cord from the wall. Take the unit to a qualified service person for inspection and necessary repairs.

Read all the instructions before connecting or operating the component.

Keep this manual so you can refer to these safety instructions.

Heed all warnings and safety information in these instructions and on the product itself. Follow all operating instructions.

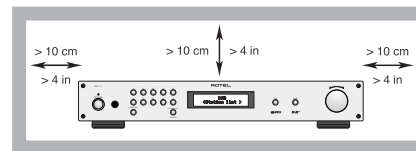
Clean the enclosure only with a dry cloth or a vacuum cleaner.

Do not use this unit near water.

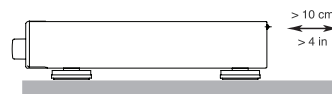
You must allow a minimum 10 cm or 4 inches of unobstructed clearance around the unit.

Do not place the unit on a bed, sofa, rug, or similar surface that could block the ventilation openings. If the unit is placed in a bookcase or cabinet, there must be ventilation of the cabinet to allow proper cooling.

Keep the component away from radiators, heat registers, stoves, or any other appliance that produces heat.



WARNING: The rear panel power cord connector is the mains power disconnect device. The apparatus must be located in an open area that allows access to the cord connector.



The unit must be connected to a power supply only of the type and voltage specified on the rear panel. (USA: 120 V/60Hz, EC: 230V/50Hz)

Connect the component to the power outlet only with the supplied power supply cable or an exact equivalent. Do not modify the supplied cable. A polarized plug has two blades, with one wider than the other. A grounding plug has two blades plus a third grounding prong. These are provided for your safety. Do not defeat grounding and/or polarization safety provisions. If the supplied plug does not fit your outlet, please consult an electrician for replacement of the obsolete outlet. Do not use extension cords.

The main plug of the power cord set is a disconnect device of the apparatus. In order to completely disconnect the apparatus from the supply mains, the main plug of the power cord set should be unplugged from the mains (AC) outlet. The stand-by LED indicator will not be lit up to show the power cord is unplugged. The disconnect device shall remain readily operable.

Do not route the power cord where it will be crushed, pinched, bent, exposed to heat, or damaged in any way. Pay particular attention to the power cord at the plug and where the cord exits the back of the unit.

The power cord should be unplugged from the wall outlet during a lightning storm or if the unit is to be left unused for a long period of time.

Use only accessories specified by the manufacturer.

Use only with a cart, stand, rack, bracket or shelf system recommended by Rotel. Use caution when moving the unit in a stand or rack to avoid injury from a tip-over.



Immediately stop using the component and have it inspected and/or serviced by a qualified service agency if:

- The power supply cord or plug has been damaged
- Objects have fallen or liquid has been spilled into the unit
- The unit has been exposed to rain
- The unit shows signs of improper operation
- The unit has been dropped or damaged in any way

The batteries in remote control shall not be exposed to excessive heat such as sunshine, fire or the like.

Figure 1: Controls and Connections
 Commandes et Branchements
 Bedienelemente und Anschlüsse
 Controlli e connessioni
 Controles y Conexiones
 De bedieningsorganen en aansluitingen
 Funktioner och anslutningar
 Органы управления и разъемы

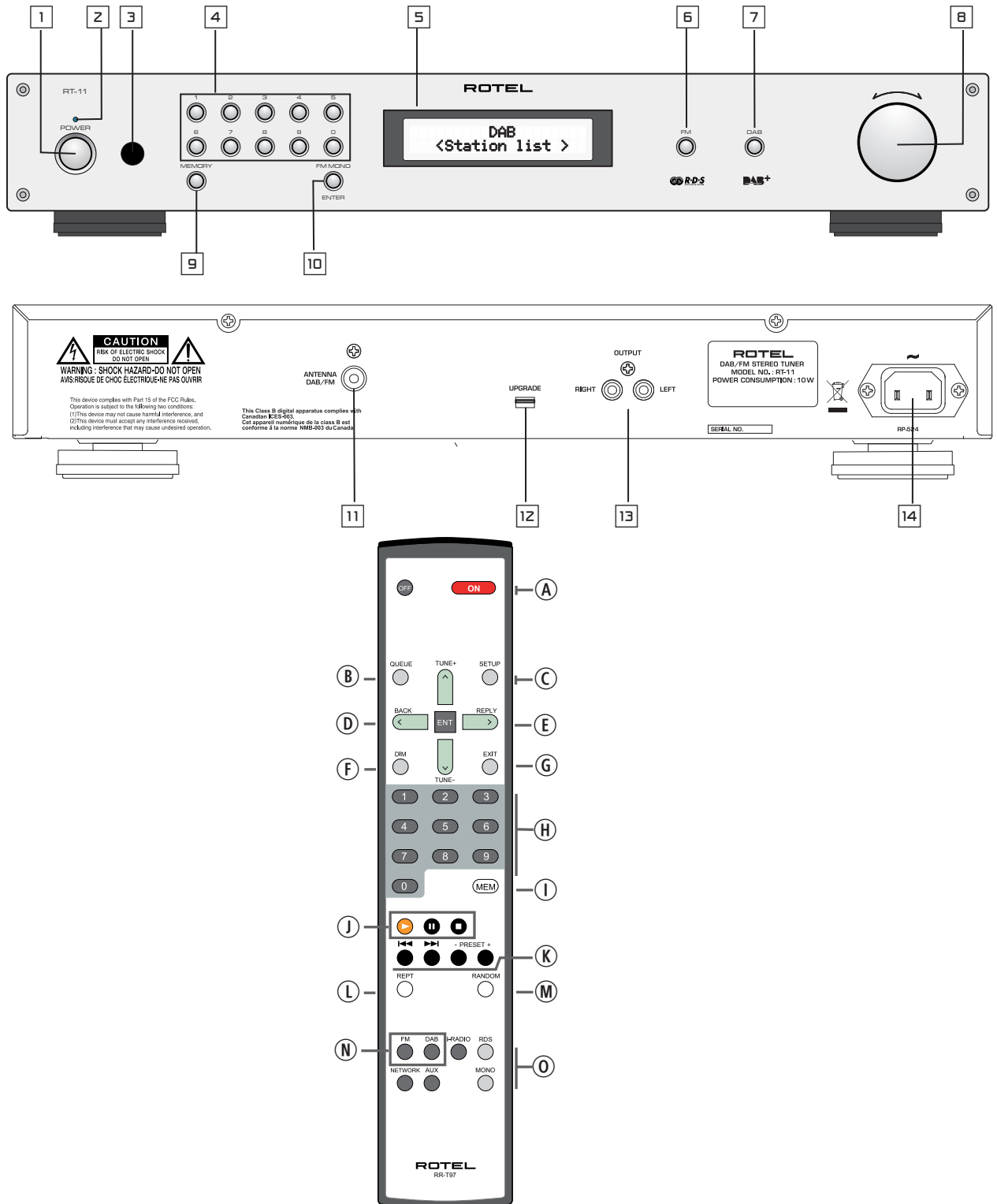
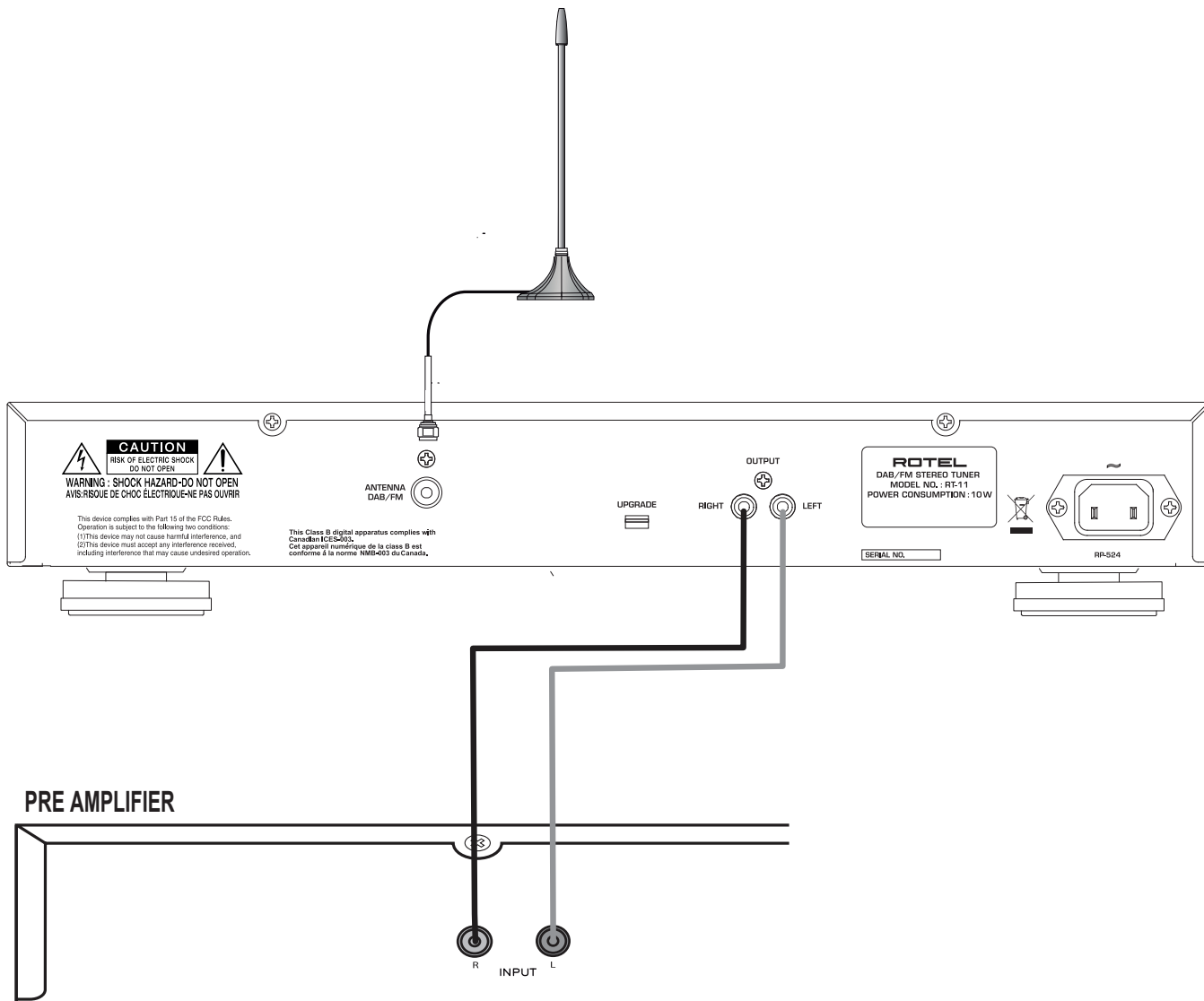


Figure 2: Hook-up Illustration
 Branchements principaux
 Diagrama de Conexiones
 Schema di collegamento
 Anschlussdiagramm
 De in- en uitgangsaansluitingen
 Inkoppling
 Подключение



Important Notes

When making connections be sure to:

- ✓ Turn off **all** the components in the system **before** hooking up **any** components, including loudspeakers.
- ✓ Turn off **all** components in the system **before** changing **any** of the connections to the system.

It is also recommended that you:

- ✓ Turn the volume control of the amplifier all the way down **before** the amplifier is turned **on or off**.

Remarques importantes

Pendant les branchements, assurez-vous que :

- ✓ **Tous** les maillons sont éteints **avant** leur branchement, **quels qu'ils soient**, y compris les enceintes acoustiques.
- ✓ Éteignez **tous** les maillons **avant** de modifier **quoi que ce soit** au niveau de leurs branchements, quels qu'ils soient.

Il est également recommandé de :

- ✓ Toujours baissez le niveau sonore via le contrôle de volume, **avant d'allumer** ou **d'éteindre** l'amplificateur.

Wichtige Hinweise

Achten Sie beim Herstellen der Verbindungen auf Folgendes:

- ✓ Schalten Sie **alle** Komponenten im System ab, **bevor** Sie Geräte (einschließlich Lautsprecher) anschließen.
- ✓ Schalten Sie **alle** Komponenten im System ab, **bevor** Sie Anschlüsse im System verändern.

Ferner empfehlen wir, dass

- ✓ Sie die Lautstärke herunterdrehen, **bevor** Sie den Verstärker **ein-** oder **abschalten**.

Notas Importantes:

Cuando realice las conexiones, asegúrese de que:

- ✓ Desactiva **todos** los componentes del equipo, cajas acústicas incluidas, **antes** de conectar **cualquier nuevo componente** en el mismo.
- ✓ Desactiva **todos** los componentes del equipo **antes** de cambiar **cualquier conexión del mismo**.

También le recomendamos que:

- ✓ Reduzca el nivel de volumen de su amplificador a cero **antes** de **activarlo o desactivarlo**.

Héél belangrijk:

Bij het maken van de verbindingen:

- ✓ Zorg dat niet alleen maar de **gehele** installatie uitstaat, als nog niet **alle** verbindingen gemaakt zijn.
- ✓ Zorg dat niet alleen maar de **gehele** installatie ook uitstaat, **als** u verbindingen gaat **wijzigen**.

Wij raden u ook aan om

- ✓ de volumeregelaar van de voorversterker geheel dicht te draaien (volkomen naar links) **wanneer** u uw eindversterker **aan- of uitzet**.

Note importanti

Quando effettuate i collegamenti assicuratevi di:

- ✓ Spegnerne **tutti** i componenti del sistema **prima** di collegare **qualsiasi** componente, inclusi i diffusori.
- ✓ Spegnerne **tutti** i componenti del sistema **prima** di modificare **qualsiasi** connessione nel sistema.

Vi raccomandiamo inoltre di:

- ✓ Portare il volume a zero **prima** di **accendere o spegnere** l'amplificatore.

Viktigt

Tänk på följande när du gör anslutningar:

- ✓ Stäng av **alla** apparater i anläggningen **innan** du ansluter nya komponenter eller högtalare.
- ✓ Stäng av **alla** apparater i anläggningen **innan** du ändrar någon anslutning.

Vi rekommenderar också att du:

- ✓ Vrider ner volymen helt och hållet **innan** förstärkaren slås **på eller av**.

Важные замечания

Перед подсоединением:

- ✓ Выключите **все** компоненты, включая колонки.
- ✓ Выключите **все** компоненты в вашей системе, прежде чем что-то в ней **менять**.

Рекомендуется также:

- ✓ Вывести громкость усилителя на **минимум**, перед тем как **включать или выключать** его.

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About Rotel

Our story began over 50 years ago. Over the decades, we have received hundreds of awards for our products and satisfied hundreds of thousands of people who take their entertainment seriously- like you!

Rotel was founded by a family whose passionate interest in music led them to manufacture high-fidelity components of uncompromising quality. Through the years, that passion has remained undiminished and the family goal of providing exceptional value for audiophiles and music lovers, regardless of their budget, is shared by all Rotel employees.

Rotel's engineers work as a close team, listening to, and fine tuning, each new product until it reaches their exacting musical standards. They are free to choose components from around the world in order to make that product the best they can. You are likely to find capacitors from the United Kingdom and Germany, semiconductors from Japan or the United States, while toroidal power transformers are manufactured in Rotel's own factory.

We all have concerns about our environment. And, as more and more electronics are produced and later discarded, it is especially important for a manufacturer to do all it can to engineer products that have a minimum negative impact on landfill sites and water tables.

At Rotel, we are proud to do our part. We have reduced the lead content in our electronics by using special RoHS solder, while our new Class D (not digital) amplifiers are up to five times more efficient than our legacy designs and still deliver power and performance. These products run cool, give minimum wasted energy, are good for the environment and give better sound too.

Finally, we have printed this brochure on recycled paper stock.

While we understand that these are small first steps, they are still important ones. And we continue to pursue new methods and materials for a cleaner and greener manufacturing process.

All of us at Rotel thank you for buying this product. We are sure it will bring you many years of enjoyment.

Getting Started

Thank you for purchasing the Rotel Tuner. When used in a high-quality music or home theater system, your Rotel Tuner will provide years of musical enjoyment.

A Few Precautions

Please read this manual carefully. In addition to basic installation and operating instructions, it provides valuable information on various system configurations as well as general information that will help you get the optimum performance from your system. Please contact your authorized Rotel dealer for answers to any questions you might have. In addition, all of us at Rotel welcome your questions and comments

Save the shipping carton and all enclosed packing material for future use. Shipping or moving the unit in anything other than the original packing material may result in severe damage to your unit and void the warranty.

Fill out and send in the owner's registration card packed with the unit. Also be sure to keep the original sales receipt. It is your best record of the date of purchase, which you will need in the event warranty service is ever required.

Key Features

- Listen to FM and DAB+ broadcasts.
- 30 Station Presets for memorizing your favorite DAB/DAB+, FM stations.
- RDS (Radio Data System) capability.
- DAB/DAB+ (Digital Audio Broadcast), a digital transmission available throughout Europe and other parts of world.

Placement

Place the unit on a solid, level surface away from sunlight, heat, moisture, or vibration.

Don't stack other components or objects on top of the unit. Don't let any liquid fall into the unit.

Note the weight and size of the unit. If placing the unit on a shelf, cabinet or rack, make sure the full weight of the unit can be supported.

The unit generates heat during normal operation. Do not block ventilation openings. Allow a minimum of 10 cm or 4 inches of unobstructed space around the unit. If installed in a cabinet, make sure that there is adequate ventilation.

AC Power and Control

AC Power Input

Your unit is configured at the factory for the proper AC line voltage in the country where you purchased it (USA: 120 volts/60 Hz, Europe: 230 volts/50 Hz). The AC line configuration is noted on a label on the back panel.

The unit is supplied with the proper AC power cord. Use only this cord or an exact equivalent. Do not modify the supplied cord. Do not use an extension cord.

Be sure the power switch on the front panel is turned off. Then, plug one end of the cord into the AC power connector on the back panel of the unit. Plug the other end into an appropriate AC outlet.

If you are going to be away from home for an extended period of time, it is a sensible precaution to unplug your Tuner.

Note: Some products are intended for sale in more than one country and as such are included with more than one AC cord. Please use only the one appropriate for your country/region.

Power Switch and Indicator Light

The power switch is located on the left side of the front panel. To turn the unit ON, push the switch in.

The indicator light above the switch will light, indicating that the unit is turned on. To turn the unit off, push the button again and return it to the out position.

Connection Overview

Before continuing further to other sections in the manual, please make sure all the cable connections are made properly. Refer to figure 2.

DAB/FM Broadcasting

Please use the supplied indoor antenna to connect the DAB/FM connector on the rear panel. To receive the best FM signal, make sure there is enough room for the antenna to fully extend. Experiment with different positions to maximize reception.

UPGRADE USB mini socket

The software of this unit can be updated through this socket, if upgrades become necessary.



OUTPUT

The unit outputs a stereo analog signal. Use the supplied audio cable to connect it with input jacks of your pre-amplifier or processor. Be careful and make sure that connections correspond to each other. Right channel output must be connected to right channel of pre-amplifier's or processor's right channel and vice versa.


FM RADIO

Before listening to FM radio, make sure that the FM antenna have been properly connected.

FM Radio Station Playing

1. Select FM Button from the source buttons  . The display will show as below







2. Turn the knob  to change the frequency of radio station. Turning it up or down one step at a time changes the frequency one step. Turning it faster and the unit will scan for stations.

3. Use the UP/DOWN keys on the remote to manually search for FM stations.

4. Press and hold the UP/DOWN keys on the remote to auto scan for FM stations.




Storing a radio station in a preset



While a radio station is playing, push the memory button  , then press the number of preset assigned from the numeric pad  , the display will show preset saved. Up to 30 preset FM radio stations may be stored.

Playing a preset radio station



When a radio station is playing, you can switch to a preset station in one of the following ways.

1. From the numeric pad  , press the preset number of the desired station.

2. Press PRESET +/-  on the remote to call out preset numbers and corresponding station. Also, you can press the UP/DOWN keys to select the desired station, then press the ENT key to select. Press FM   button again to exit the preset menu and back to playing status.



3. Press the FM   button. This toggles between the following 3 selections

1. Display FM station currently tuned to.
2. Display Preset Menu.
3. Display FM settings Menu

Toggle to the Preset Menu and scroll through all the presets with the knob  Press the ENTER  key to select.

From the remote, use the +/- PRESET  keys to select a PRESET and press the ENT key to select.



FM Settings Menu

Press the FM   button and toggle to the FM settings Menu. There are 3 sub-menu under FM setting

1. Scan Settings - Select between ALL STATION or Strong Stations Only.

2. Audio Settings - Allow Stereo or Forced Mono

3. System - Select Factory default and shows the current software.

To make changes in the FM settings menu, turn the knob  on the front panel or the UP/DOWN keys on the remote. To make a change press the Enter  key on the front panel. From the remote control, press the ENT key.

RDS Broadcast Reception

This Rotel unit is equipped with RDS (Radio Data Systems) reception capabilities. The RDS broadcast system provide additional functionality to FM radio reception by transmitting encoded information along with the radio signal. This signal is decoded by an RDS receiver and can provide a range of informational features including:

1. A display of the station's identifying name (e.g. BBC1)
2. A display of the station's program content (e.g. ROCK or NEWS).
3. Traffic information broadcasts.
4. A scrolling text display for announcements or information.
5. Current time and date.

RDS broadcasting has been widely available in many European markets for years. There are a large number of RDS stations and most users will be familiar with the features and operation.

Note: The RDS features are entirely dependent on the broadcaster sending properly encoded signals. Thus, they will only be available in markets where RDS is currently implemented and where stations are broadcasting these data signals.

RDS Button

The RDS button on the remote control can step through the various displays. Press the RDS button on the remote to step through the following displays.

1. Radio Text
2. PTY, or the type of content.
3. Name of station.
4. Stereo or Mono station.
5. Current time.
6. Today's date.



MONO Button

The MONO button on the remote control changes the FM mode from stereo reception to mono reception. In stereo mode, a stereo signal will be heard if the station is broadcasting a stereo signal and there is sufficient signal strength.

Note: Switching to mono mode can be a useful way to improve the reception of weak or distant FM signals. Less signal strength is required for clean mono reception than for stereo reception.

DAB RADIO

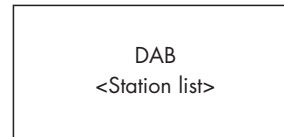
Make sure that your local area can receive Digital Audio Broadcast (DAB) broadcasting signal.

Press the DAB  button on the front of the panel, or remote .

DAB channels are categorized into ensembles, which are also known as multiplexes. Each multiplex provides a number of stations and each service contains a primary service that can contain secondary services. DAB technology allow broadcasters to transmit additional data along with the audio, which can include other audio channels, text and even images and computer data in the future.



DAB Radio Station Playing

1. Select DAB Button from the front panel and the unit will scan for available stations. After scanning you will see the following menu.






Push the ENTER key  to see available stations.

Storing a DAB station in a preset


While a DAB station is playing, hold down the memory button  ①, then press the number of preset assigned from numeric pad  ④ ②. Up to 30 preset DAB radio stations may be stored.

Playing a preset DAB station

When a DAB station is playing, you can switch to a preset station in one of the following ways.

1. From the numeric pad  ④ ③, press preset number of the desired station.
2. Press PRESET +/-  ⑤ on the remote to call out preset numbers and corresponding station. Turn the knob to choose the desired station, then press ENTER  to select, or press the ENT key on the remote.

DAB Settings Menu

Press the DAB  ⑦ ④ on the front panel or remote to toggle to the DAB settings Menu. There are 6 sub-menus. Turn the knob on the front panel or use the UP/DOWN keys on the remote to go through each sub-menu.

1. <Station List>, shows station list.
2. <Full Scan> Start a full range scan by pressing the ENT key.
3. <Manual Scan> Press ENT and select stations manually by using the Up/Down keys.
4. <DRC> Dynamic Range Control Select between "off", "high" and "low". Press ENT and select Up/Down keys to change.
5. <Prune> Select between "Yes" or "No". The Prune setting allows you to remove stations that are not active or can not be received.
6. <System>, Select the Factory Default and show Software Version.

Remote Unit Advanced Buttons

Setup menu

To enter the setup menu, press the SETUP  button on the remote control and you will see the following display:



```
> 1 VERSION
  2 EXIT
```

1. VERSION, shows the software version loaded in the unit.
2. EXIT, exits the setup menu.

DIM Button

Press this button to reduce the brightness of the front panel display.

QUEUE Button

This button is not used with the RT-11

BACK Button

This button is not used with the RT-11

REPLY Button

This button is not used with the RT-11

Transport Buttons

This button is not used with the RT-11

REPT Button

This button is not used with the RT-11

RANDOM Button

This button is not used with the RT-11

Note: The input buttons i-Radio, Network, and AUX not labeled in the illustration figure 1, do not operate with the RT-11

Troubleshooting

Most difficulties in audio systems are the result of incorrect connections, or improper control settings. If you encounter problems, isolate the area of the difficulty, check the control settings, determine the cause of the fault and make the necessary changes. If you are unable to get sound, refer to the suggestions for the following conditions:

Power Indicator Is Not Lit

The power Indicator should be lit whenever the unit is plugged into the wall power outlet and is pushed in. If it does not light, test the power outlet with another electrical device, such as a lamp. Be sure the power outlet being used is not controlled by a switch that has been turned off.

No Sound

1. Check the cables between the output and the pre-amplifier inputs, be sure they are connected properly. Refer to Fig. 2.

Specifications

FM Tuner

Usable Sensitivity	22.2dBf
50dB Quieting Sensitivity	27.2dBf(mono)
Signal to Noise Ratio (at 65 dBf)	63 dBf (mono) 60 dBf (stereo)
Harmonic Distortion (at 65 dBf)	0.2% (mono) 0.3% (stereo)
Frequency Response	10 Hz-15kHz, \pm 3dB
Stereo Separation (100Hz/1kHz/10kHz)	40dB/45dB/35dB
Output level	1.0V
Antenna Input	75 ohms unbalanced

DAB Tuner

Sensitivity	-80dBm
Tuning Range	Band III (174-240MHz)
Audio Data Rate	224Kbps (Max)
Frequency Response	20 - 20KHz +/- 1.0dB
Analog Output	2.1V at 0dBFS
Antenna Input	75 ohms F connector

General

Power Consumption	10 watts
Standby Power Consumption	0.5 watts
Power Requirements (AC)	120V, 60Hz(USA) 230V, 50Hz(Europe)
Weight	4.3 kgs (9.48 lbs)
Dimensions (W x H x D)	430 x 73 x 330 mm (17 x 2 ⁷ / ₈ x 13 in)
Front panel height	60 mm

All specifications are accurate at the time of printing.

Rotel reserves the right to make improvements without notice

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