



# RX-V395

# RX-V395RDS

*NATURAL SOUND AV RECEIVER*

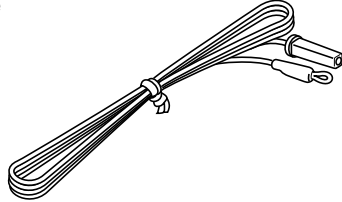
*AMPLI-TUNER AUDIO-VIDEO*

**OWNER'S MANUAL  
MODE D'EMPLOI  
BEDIENUNGSANLEITUNG  
BRUKSANVISNING  
MANUALE DI ISTRUZIONI  
MANUAL DE INSTRUCCIONES  
GEBRUIKSAANWIJZING**

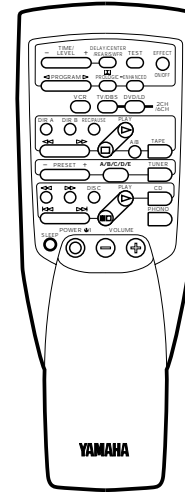
**SUPPLIED ACCESSORIES**  
**ACCESSOIRES FOURNIS**  
**MITGELIEFERTE ZUBEHÖRTEILE**  
**MEDFÖLJANDE TILLBEHÖR**  
**ACCESSORI IN DOTAZIONE**  
**ACCESORIOS INCLUIDOS**  
**BIJGELEVERDE ACCESSOIRES**

- After unpacking, check that the following parts are included.
- Après le déballage, vérifier que les pièces suivantes sont incluses.
- Nach dem Auspacken überprüfen, ob die folgenden Teile vorhanden sind.
- Kontrollera efter det apparaten packats upp att följande delar finns med.
- Verificare che tutte le parti seguenti siano contenute nell'imballaggio dell'apparecchio.
- Desembalar el aparato y verificar que los siguientes accesorios están en la caja.
- Controleer na het uitpakken of de volgende onderdelen voorhanden zijn.

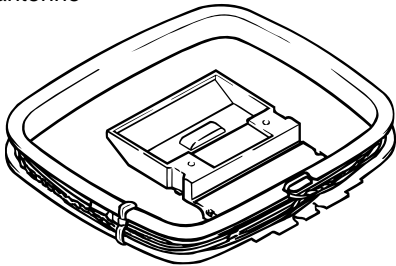
- Indoor FM Antenna
- Antenne FM intérieure
- UKW-Innenantenne
- FM inomhusantenn
- Antenna FM interna
- Antena FM interior
- FM Binnenantenne



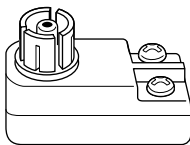
- Remote Control Transmitter
- Emetteur de télécommande
- Fernbedienung
- Fjärrkontroll
- Telecomando
- Transmisor de control remoto
- Afstandbediening



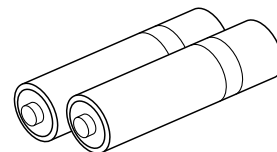
- AM Loop Antenna
- Cadre-antenne AM
- MW-Rahmenantenne
- AM ramantenn
- Antenna AM ad anello
- Antena de cuadro de AM
- AM Lusantenne



- 75-ohm/300-ohm antenna adapter <U.K. model only>
- Adaptateur d'antenne 75 ohms/300 ohms <Modèle pour le Royaume-Uni seulement>
- 75 Ohm/300 Ohm Antennenstecker <nur Großbritannien-Modell>
- 75 ohm/300 ohm antennadapter <Endast modell för brittisk>
- Adattatore per antenna da 75 e 300 ohm <Solo modello per la Gran Bretagna>
- Adaptador de antena de 75 ohmios/300 ohmios <Modelo para Reino Unido sólo>
- 75 ohm/300 ohm antenne-adapter <Alleen modellen voor Groot-Brittannië>



- Batteries (size AA, R6, UM-3)
- Piles (taille AA, R6, UM-3)
- Batterien (Größe AA, R6, UM-3)
- Batterier (storlek AA, R6, UM-3)
- Batterie (dimensioni AA, R6, UM-3)
- Pilas (tamaño AA, R6, UM-3)
- Batterijen (maat AA, R6, UM-3)



## FEATURES

- **5 Speaker Configuration (Power Amp. Section)**
  - Main:** 60W + 60W (8Ω) RMS Output Power, 0.04% THD, 20–20,000 Hz
  - Center:** 60W (8Ω) RMS Output Power, 0.04% THD, 20–20,000 Hz
  - Rear:** 60W + 60W (8Ω) RMS Output Power, 0.04% THD, 20–20,000 Hz
- **Digital Sound Field Processor**
- **Dolby Pro Logic Surround Decoder**
- **Theater-like Sound Experience by the Combination of Dolby Pro Logic and YAMAHA DSP Technology (CINEMA DSP)**
- **Automatic Input Balance Control for Dolby Pro Logic Surround**
- **Test Tone Generator for Easier Speaker Balance Adjustment**
- **3 Center Channel Modes (NORMAL/WIDE/PHANTOM)**
- **Multi-Functions for RDS Broadcast Reception **RX-V395RDS only****
- **40-Station Random Access Preset Tuning**
- **Automatic Preset Tuning**
- **Preset Station Shifting Capability (Preset Editing)**
- **IF Count Direct PLL Synthesizer Tuning System**
- **6-Channel External Decoder Input for Dolby Digital, DTS, and Other Future Formats**
- **Video Signal Input/Output Capability**
- **SLEEP Timer**
- **Remote Control Capability**

## CONTENTS

SUPPLIED ACCESSORIES .....	2	BASIC OPERATIONS .....	22
FEATURES .....	3	TUNING OPERATIONS .....	26
CAUTION .....	4	PRESET TUNING .....	27
NOTES ABOUT THE REMOTE CONTROL TRANSMITTER .....	5	RECEIVING RDS STATIONS .....	30
PROFILE OF THIS UNIT .....	6	USING DIGITAL SOUND FIELD PROCESSOR (DSP) .....	35
SPEAKER SETUP .....	7	SETTING THE SLEEP TIMER .....	39
CONNECTIONS .....	8	TROUBLESHOOTING .....	40
CONTROLS AND THEIR FUNCTIONS .....	14	SPECIFICATIONS .....	41
SPEAKER BALANCE ADJUSTMENT .....	19		

Illustrations in this manual show the RX-V395RDS model. Functions and parts applicable only to the RX-V395RDS are clearly specified.

# CAUTION : READ THIS BEFORE OPERATING YOUR UNIT.

1. To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
2. Install this unit in a cool, dry, clean place – away from windows, heat sources, sources of excessive vibration, dust, moisture and cold. Avoid sources of humming (transformers, motors). To prevent fire or electrical shock, do not expose the unit to rain or water.
3. Never open the cabinet. If something drops into the set, contact your dealer.
4. Do not use force on switches, controls or connection wires. When moving the unit, first disconnect the power plug and the wires connected to other equipment. Never pull the wires themselves.
5. The openings on the unit cover assure proper ventilation of the unit. If these openings are obstructed, the temperature inside the unit will rise rapidly. Therefore, avoid placing objects against these openings, and install the unit in a well-ventilated area to prevent fire and damage.  
  
<China, U.K. and Europe models only>  
Be sure to allow a space of at least 20 cm behind, 20 cm on the both sides and 30 cm above the top panel of the unit to prevent fire and damage.
6. Always set the VOLUME control to “– ∞” before starting the audio source play. Increase the volume gradually to an appropriate level after playback has been started.
7. Do not attempt to clean the unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
8. Be sure to read the “TROUBLESHOOTING” section regarding common operating errors before concluding that the unit is faulty.
9. When not planning to use this unit for long periods of time (i.e., vacation, etc.), disconnect the AC power plug from the wall outlet.
10. To prevent lightning damage, disconnect the AC power plug and antenna cable when there is an electrical storm.
11. Grounding or polarization – Precautions should be taken so that the grounding or polarization of an appliance is not defeated.
12. Do not connect audio equipment to the AC outlet on the rear panel if the equipment requires more power than the outlet is rated to provide.
13. **Voltage Selector <China and General models only>**  
**The voltage selector on the rear panel of this unit must be set for your local main voltage BEFORE plugging into the AC power supply.**  
**Voltages are 110/120/220/240 V AC, 50/60 Hz.**

## IMPORTANT

Please record the serial number of this unit in the space below.

Model:

Serial No.:

The serial number is located on the rear of the unit. Retain this Owner's Manual in a safe place for future reference.

## WARNING

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.**

This unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this unit itself is turned off. This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power.

## FREQUENCY STEP switch <China and General models only>

Because the interstation frequency spacing differs in different areas, set the FREQUENCY STEP switch (located on the rear panel) according to the frequency spacing in your area.  
Before setting this switch, disconnect the AC power plug of this unit from the AC outlet.

## For Canadian Customers

To prevent electric shock, match wide blade of plug to wide slot and fully insert.

This Class B digital apparatus complies with CANADIAN ICES-003

**For U.K. customers**

If the socket outlets in the home are not suitable for the plug supplied with this appliance, it should be cut off and an appropriate 3 pin plug fitted. For details, refer to the instructions described on the right.

**Note:** The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

**Special Instructions for U.K. Model****IMPORTANT**

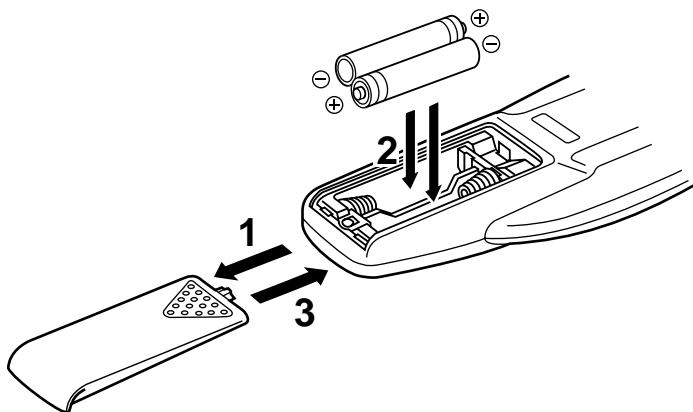
THE WIRES IN MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

Blue: NEUTRAL

Brown: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Making sure that neither core is connected to the earth terminal of the three pin plug.

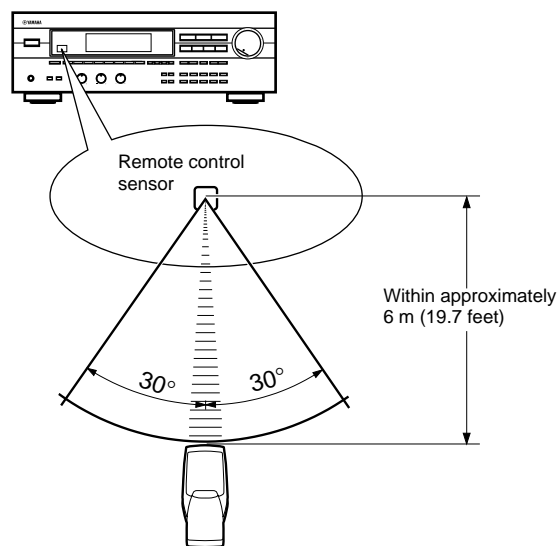
## NOTES ABOUT THE REMOTE CONTROL TRANSMITTER

**Battery installation****Battery replacement**

When you notice a decrease in the operating range of the remote control transmitter, the batteries are weak. Replace both batteries with new ones.

**Notes**

- Use only AA, R6, UM-3 batteries for replacement.
- Be sure the polarities are correct. (See the illustration inside the battery compartment.)
- Remove the batteries if the remote control transmitter will not be used for an extended period of time.
- If batteries leak, dispose of them immediately. Avoid touching the leaked material or letting it come in contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.

**Remote control transmitter operation range****Notes**

- There should be no large obstacles between the remote control transmitter and the main unit.
- If the remote control sensor is directly illuminated by strong lighting (especially an inverter type of fluorescent lamp, etc.), it might cause the remote control transmitter not to work correctly. In this case, reposition the main unit to avoid direct lighting.

# PROFILE OF THIS UNIT

You are the proud owner of a Yamaha stereo receiver – an extremely sophisticated audio component. The Digital Sound Field Processor (DSP) built into this unit takes advantage of Yamaha's undisputed leadership in the field of digital audio processing to bring you a whole new world of listening experiences. Follow the instructions in this manual carefully when setting up your system, and this unit will sonically transform your room into a wide range of listening environments – movie theater, concert hall, and so on. In addition, you get incredible realism from sources encoded with Dolby Surround using the built-in Dolby Pro Logic Surround decoder.

Please read this owner's manual carefully and store it in a safe place for later reference.

## Digital Sound Field Processing

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What is it that makes live music so good? Today's advanced sound reproduction technology lets you get extremely close to the sound of a live performance, but chances are you'll still notice something missing: the acoustic environment of the live concert hall. Extensive research into the exact nature of the sonic reflections that create the ambience of a large hall has made it possible for Yamaha engineers to bring you this same sound in your own listening room, so you'll feel all the sound of a live concert.

Furthermore, our technicians, armed with sophisticated measuring equipment, have even made it possible to capture the acoustics of a variety of venues such as an actual concert hall, theater, etc. to allow you to accurately recreate one of several actual live performance environments, all in your own home.

## Dolby Pro Logic Surround

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This unit employs a Dolby Pro Logic Surround decoder similar to professional Dolby Stereo decoders used in many movie theaters. By using the Dolby Pro Logic Surround decoder, you can experience the dramatic realism and impact of Dolby Surround movie theater sound in your own home. Dolby Pro Logic employs a four channel five speaker system. The Pro Logic Surround system divides the input signal into four levels: the left and right main channels, the center channel (used for dialog), and the rear surround sound channel (used for sound effects, background noise, and other ambient noises). The center channel allows listeners seated in even less-than-ideal positions to hear the dialog originating from the action on the screen while experiencing good stereo imaging. Dolby Surround is encoded on the sound track of pre-recorded video tapes, laser discs, and some TV/cable broadcasts. When you play a source encoded with Dolby Surround on this unit, the Dolby Pro Logic Surround decoder decodes the signal and distributes the surround-sound effects.

This Dolby Pro Logic Surround Decoder employs a digital signal processing system. This system improves the stability of sound at each channel and minimizes crosstalk between channels, so that positioning of sounds around the room is more accurate compared with conventional analog signal processing systems. In addition, this unit features a built-in automatic input balance control. This always assures you the best performance without manual adjustment.

Manufactured under license from Dolby Laboratories. "Dolby", "AC-3", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

## Dolby Pro Logic Surround + DSP

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A Dolby Surround sound system shows its full ability in a large movie theater, because movie sounds are originally designed to be reproduced in a large movie theater using many speakers. It is difficult to create a sound environment similar to that of a movie theater in your listening room, because the room size, materials of inside walls, the number of speakers, etc. of your listening room is much different from those of a movie theater.

Yamaha DSP technology made it possible to present you with nearly the same sound experience as that of a large movie theater in your listening room by compensating for lack of presence and dynamics in your listening room with its original digital sound fields combined with Dolby Surround sound field.

The combination of Dolby Pro Logic Surround and DSP is used on the sound field program "PRO LOGIC ENHANCED".

CINEMA DSP

The YAMAHA "CINEMA DSP" logo indicates these programs are created by the combination of Dolby Pro Logic and YAMAHA DSP technology.

## SPEAKERS TO BE USED

This unit is designed to provide the best sound-field quality with a 5 speaker configuration. The most effective speakers to use with this unit are main speakers, rear speakers and a center speaker. You may omit the center speaker. (Refer to the “**4-Speaker Configuration**” shown below.)

The main speakers are used for the majority of the sound output as well as effect sounds. The rear speakers are used for the effect and surround sounds, and the center speaker is for the center sounds (dialog, etc.) within programs encoded with Dolby Surround. The center speaker needs to be equal in power to the main speakers, though the rear speakers should be slightly lower in power. However, all the speakers should have high enough power handling to accept the maximum output of this unit.

## SPEAKER CONFIGURATION

### 5-Speaker Configuration

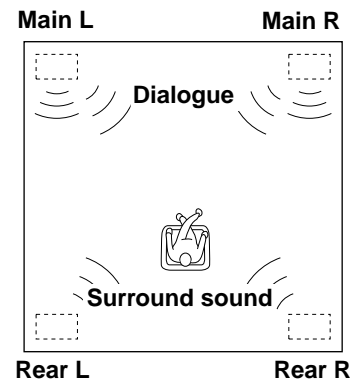
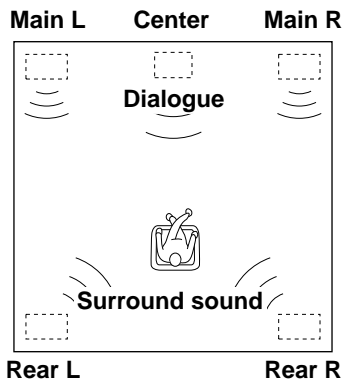
This configuration is the most effective and recommended one. In this configuration, the center speaker is necessary as well as the rear speakers. If the program **DOLBY PRO LOGIC** or **DOLBY PRO LOGIC ENHANCED** is selected, conversations will be output from the center speaker and the ambience will be excellent.

- Set the center channel mode to the “**NORMAL**” or “**WIDE**” position. (For details, refer to page 20.)

### 4-Speaker Configuration

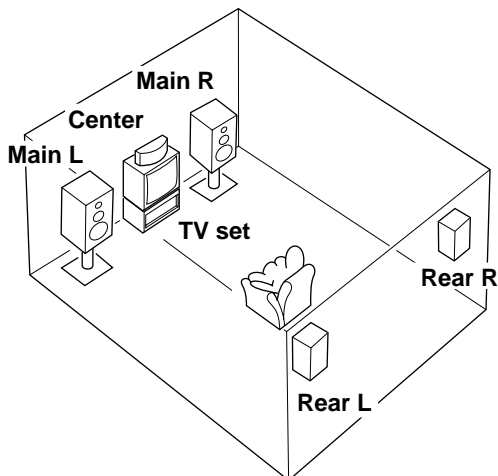
The center speaker is not used in this configuration. If the program **DOLBY PRO LOGIC** or **DOLBY PRO LOGIC ENHANCED** is selected, the center sound is output from the left and the right main speakers. However, the sound effect of other programs can be the same as that of the 5-speaker configuration.

- Be sure to set the center channel mode to the “**PHANTOM**” position. (For details, refer to page 20.)



## SPEAKER PLACEMENT

The recommended 5-speaker configuration requires a pair of **main speakers**, a **center speaker**, and a pair of **rear speakers** (sometimes referred to as surround speakers). When arranging your speakers, refer to the illustration and information below.



- Main:** Position the main speakers at equal distances away from the listening position and at equal distances on either side of the center speaker.
- Rear:** Position rear speakers directly behind the listening position at a height of approximately 1.8m (6 feet) up from the floor, facing slightly inward. If the speakers cannot be placed behind the listening position, they may also be placed at the side of the listening position, facing toward the listening position.
- Center:** Position the center speaker directly in front of the listening position between the main speakers. (When placing on or near a television, use a magnetically shielded speaker to avoid unwanted interference.)

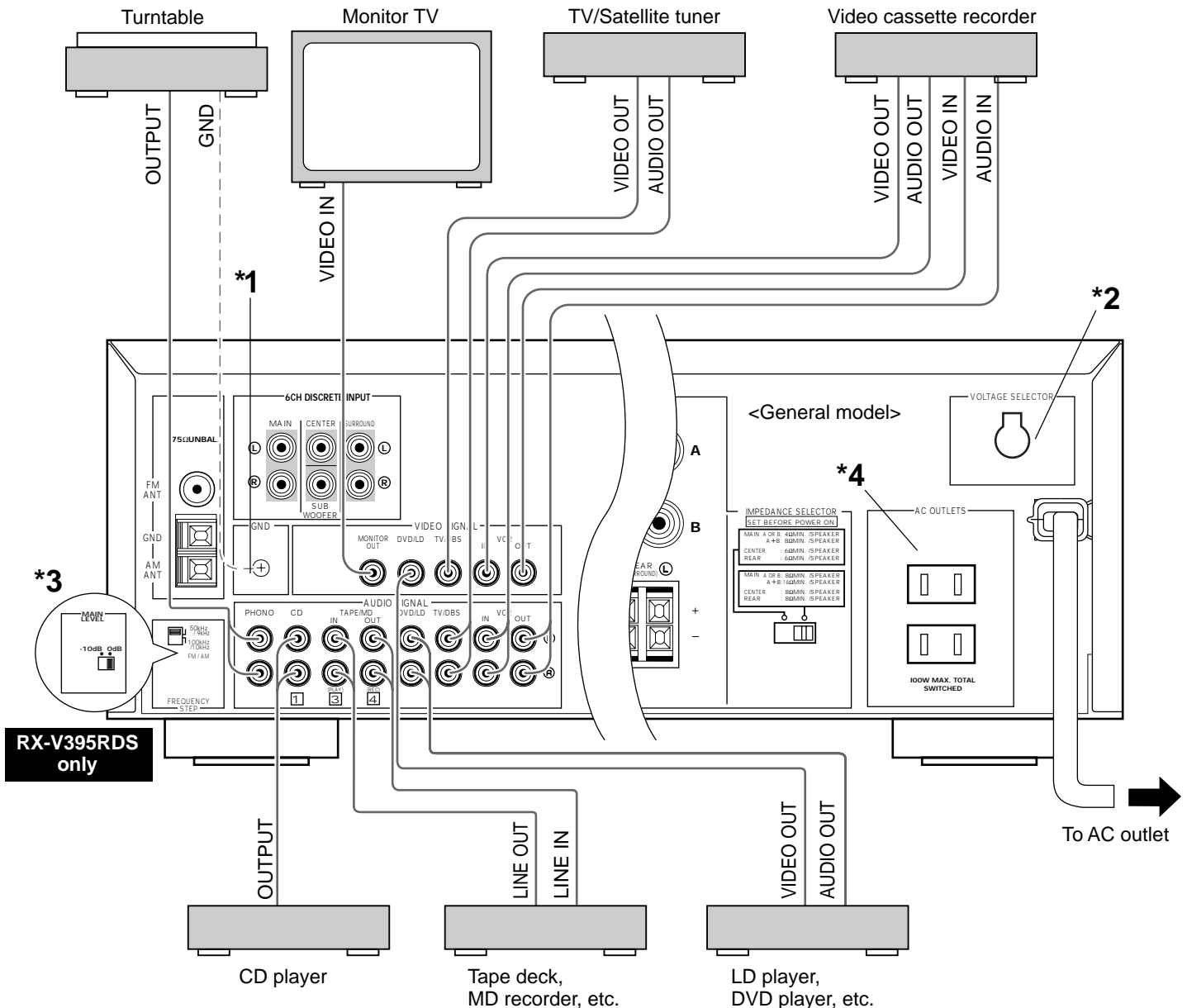
# CONNECTIONS

## CONNECTIONS WITH OTHER COMPONENTS

**Never plug in this unit and other components until all connections are completed.**

When making connections between this unit and other components, be sure all connections are made correctly; that is to say L (left) to L, R (right) to R, “+” to “+” and “-” to “-”. Also, refer to the owner’s manual for each component to be connected to this unit.

\* If you have YAMAHA components numbered as 1, 3, 4, etc. on the rear panel, connections can be made easily by connecting the output (or input) terminals of each component to the same-numbered terminals on this unit.



**\*1 Ground (GND) terminal (For turntable use)**

Connecting the ground wire of the turntable to the GND terminal will normally minimize hum, but in some cases better results may be obtained with the ground wire disconnected.

**\*2 Voltage Selector <China and General models only>**

The voltage selector on the rear panel of this unit must be set for your local main voltage BEFORE plugging into the AC power supply. Voltages are 110/120/220/240 V AC, 50/60 Hz.

**\*3 MAIN LEVEL Switch **RX-V395RDS only****

Normally set to “0 dB”. If desired, you can decrease the output level of the MAIN SPEAKERS terminals by 10 dB by setting this switch to “-10 dB”.

**\*4 AC OUTLETS (SWITCHED)**

<Europe, Canada, U.S.A., China and General models>  
 ..... 2 SWITCHED OUTLETS  
 <U.K. and Australia models> ..... 1 SWITCHED OUTLET  
 Use these to connect the power cords from your components to this unit.

The power to the **SWITCHED AC OUTLETS** is controlled by this unit’s **STANDBY/ON** switch or the provided remote control transmitter’s **POWER** key. These outlets will supply power to any component whenever this unit is turned on.

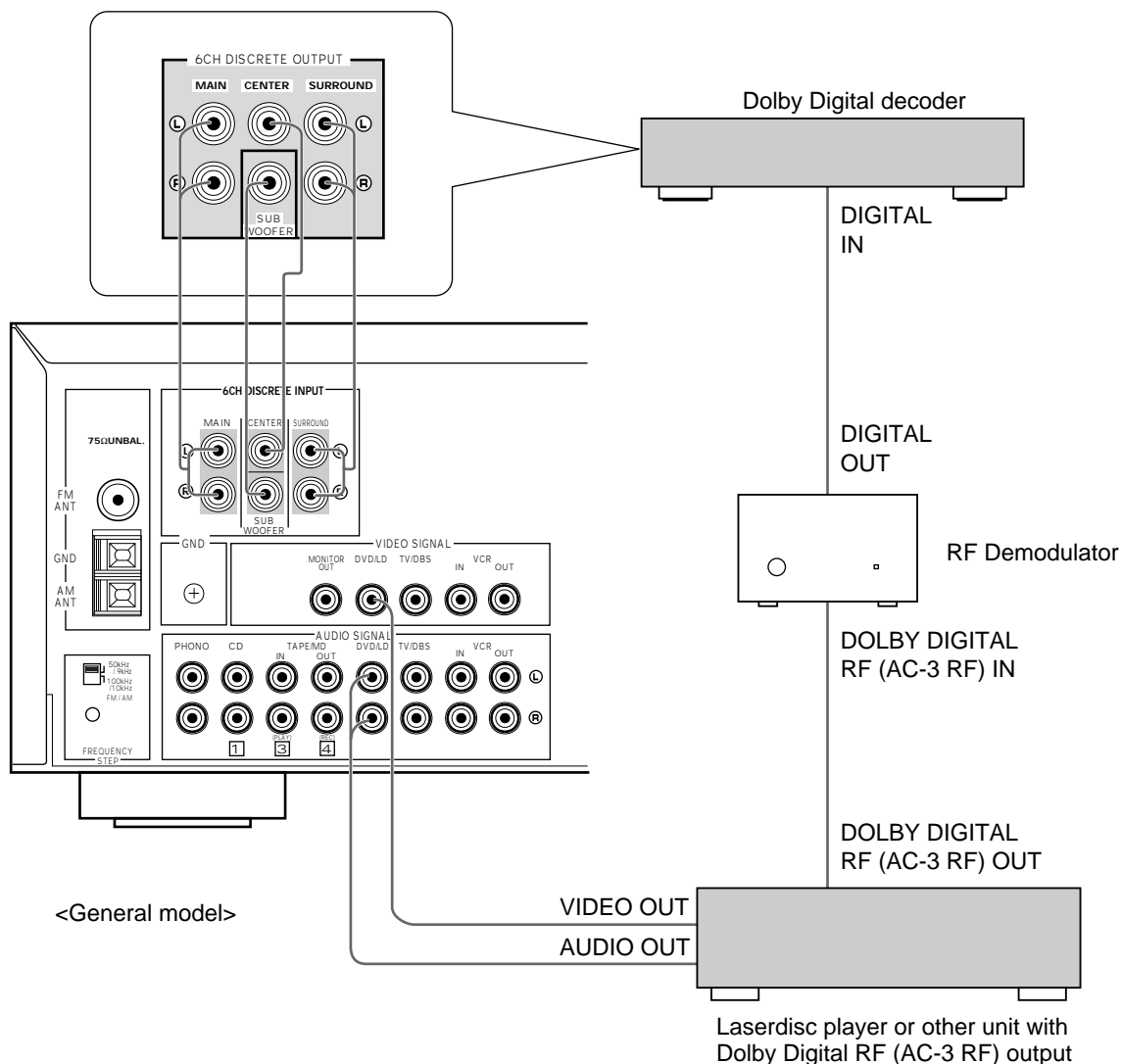
The maximum power (total power consumption of components) that can be connected to the **SWITCHED AC OUTLETS** is 100 watts.



## Connecting an external decoder for Dolby Digital, DTS and other future formats or a DVD player, etc.

If you have a separate Dolby Digital, DTS or other format decoder, or if you have a DVD player or other component which incorporates a Dolby Digital, DTS, or other format decoder, its 6 channel discrete outputs can be connected to the 6CH DISCRETE INPUT terminals of this unit.

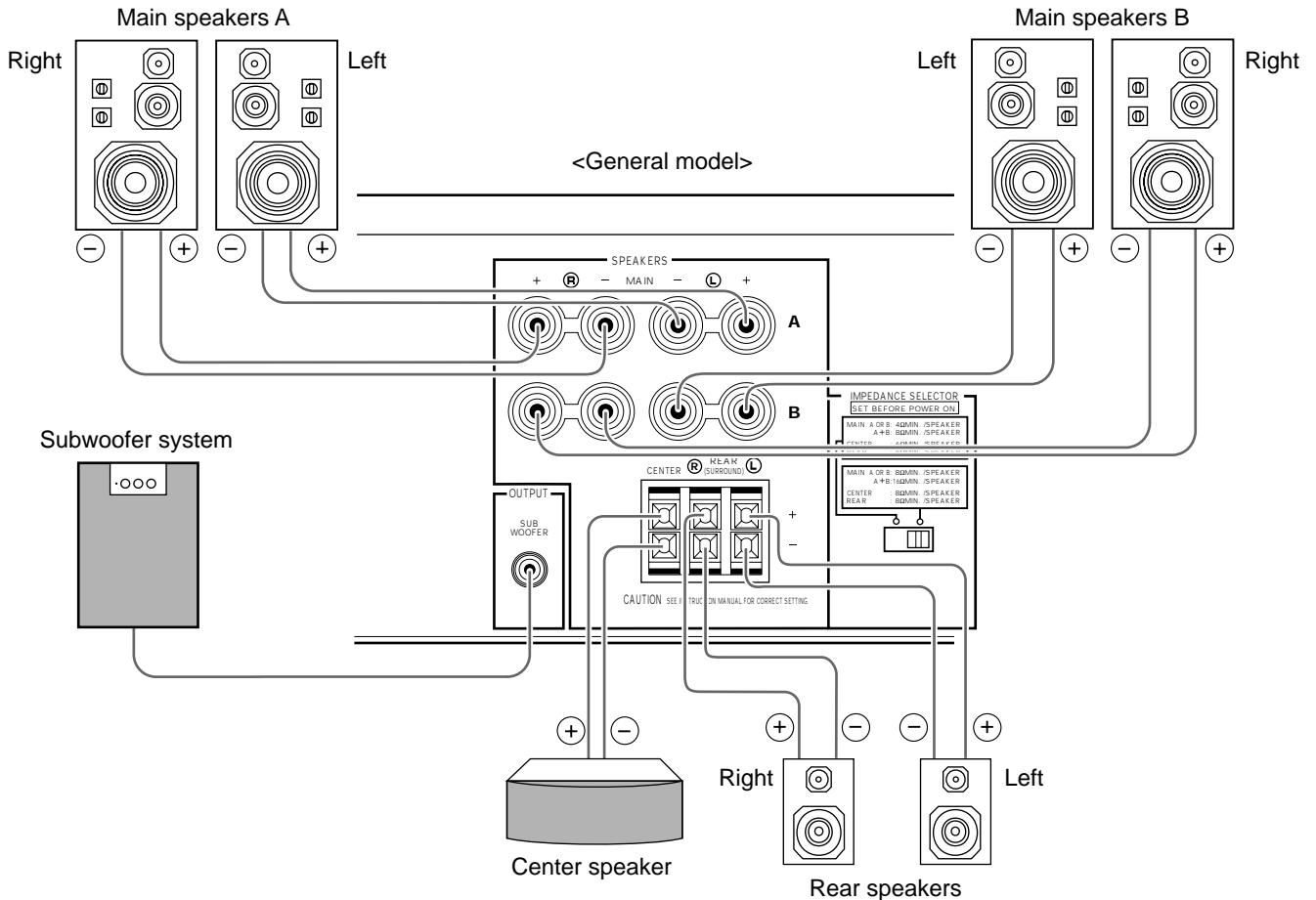
(Example)



### Notes

- The laserdisc player (or other unit) must be also connected to the DVD/LD (or TV/DBS) AUDIO SIGNAL input terminals of this unit to play a source encoded with Dolby Pro Logic Surround or in normal stereo (or monaural).
- The discrete signals input to this unit cannot be recorded by a tape deck, MD recorder or VCR. To record a source played on the laserdisc player (or another unit), it must be connected to the DVD/LD (or TV/DBS) AUDIO/VIDEO SIGNAL input terminals of this unit.
- If you made no connection to the SUB WOOFER input terminal of this unit or you will not use a subwoofer, you should be able to make a setting on the decoder to distribute SUB WOOFER channel signals to the right and left MAIN output terminals. For details, refer to the owner's manual supplied with the decoder.

# CONNECTING SPEAKERS



**Note**

Use speakers with the specified impedance shown on the rear of this unit.

**Note on main speaker connections:**

One or two speaker systems can be connected to this unit. If you use only one speaker system, connect it to either the **SPEAKERS A** or **B** terminals.

**Note on subwoofer connection:**

You may wish to add a subwoofer to reinforce low frequencies or to output low bass sound from the subwoofer channel when reproducing discrete signals.

Connect the **SUBWOOFER OUTPUT** terminal of this unit to the input terminal of the subwoofer amplifier, and connect the speaker terminals of the subwoofer amplifier to the subwoofer. With some subwoofers, including the Yamaha Active Servo Processing Subwoofer System, the amplifier and subwoofer are in the same unit.

## How to Connect:

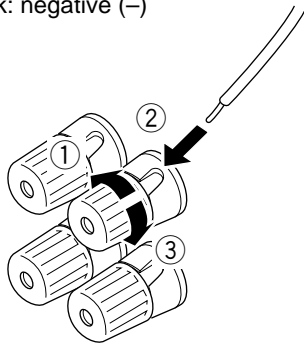
Connect the **SPEAKERS** terminals to your speakers with wire of the proper gauge, cut as short as possible. If the connections are faulty, no sound will be heard from the speakers. Make sure that the polarity of the speaker wires is correct, that is the + and – markings are observed. If these wires are reversed, the sound will be unnatural and lack bass.

### Caution

**Do not let the bare speaker wires touch each other or any metal part of this unit. This could damage this unit and/or speakers.**

### To connect to the MAIN SPEAKERS terminals

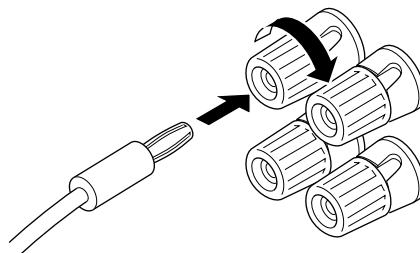
Red: positive (+)  
Black: negative (–)



- ① Unscrew the knob.
- ② Insert the bare wire.  
[Remove approx. 5mm (1/4") insulation from the speaker wires.]
- ③ Tighten the knob and secure the wire.

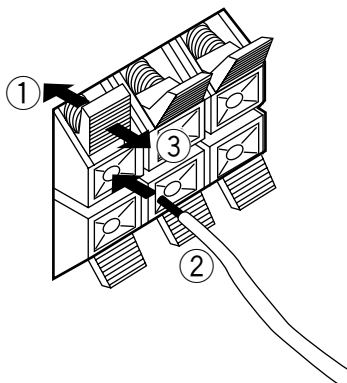
### <U.S.A., Canada, Australia, China and General models only>

Banana Plug connections are also possible. Simply insert the Banana Plug connector into the corresponding terminal.



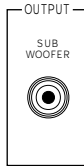
### To connect to the REAR and CENTER SPEAKERS terminals

Red: positive (+)  
Black: negative (–)



- ① Press the tab.
- ② Insert the bare wire.  
[Remove approx. 5mm (1/4") insulation from the speaker wires.]
- ③ Release the tab and secure the wire.

## SUBWOOFER OUTPUT terminal



This terminal is for connecting to the input terminal of an amplifier driving a subwoofer.

This terminal outputs low frequencies from the main and center channels. (The cut-off frequency of signals output from this terminal is 150 Hz.)

When 6 channel discrete signals are input to this unit and are selected as the input source, this terminal outputs signals from the subwoofer channel.

## IMPEDANCE SELECTOR switch


Be sure to switch this only when the power to this unit is not on.

Select the position whose requirements your speaker system meets.

### WARNING

**Do not change the IMPEDANCE SELECTOR switch setting while the power to this unit is on, otherwise this unit may be damaged.**

**IF THIS UNIT FAILS TO TURN ON WHEN THE STANDBY/ ON SWITCH IS PRESSED, the IMPEDANCE SELECTOR switch may not be set to either end closely. If so, set the switch to either end closely.**

 (Left position)

**Main:** If you use one pair of main speakers, the impedance of each speaker must be 4Ω or higher.  
If you use two pairs of main speakers, the impedance of each speaker must be 8Ω or higher.

**Center:** The impedance of the speaker must be 6Ω or higher.

**Rear:** The impedance of each speaker must be 6Ω or higher.

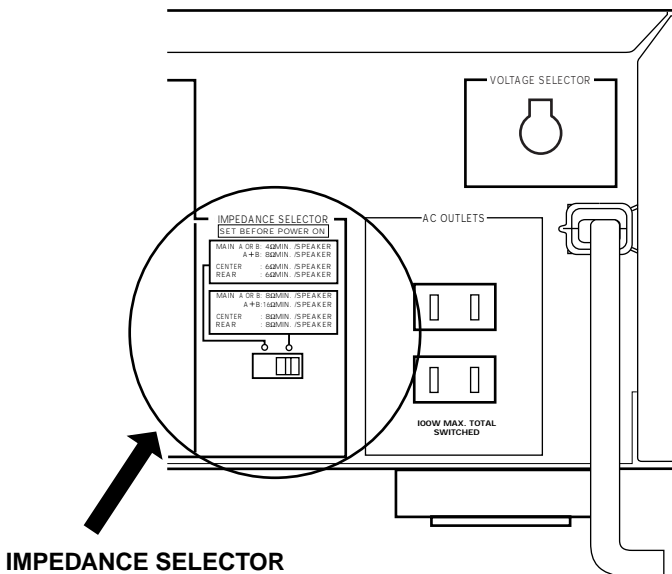
 (Right position)

**Main:** <Except for Canada model>  
If you use one pair of main speakers, the impedance of each speaker must be 8Ω or higher.  
If you use two pairs of main speakers, the impedance of each speaker must be 16Ω or higher.  
<Canada model only>  
The impedance of each speaker must be 8Ω or higher.

**Center:** The impedance of the speaker must be 8Ω or higher.

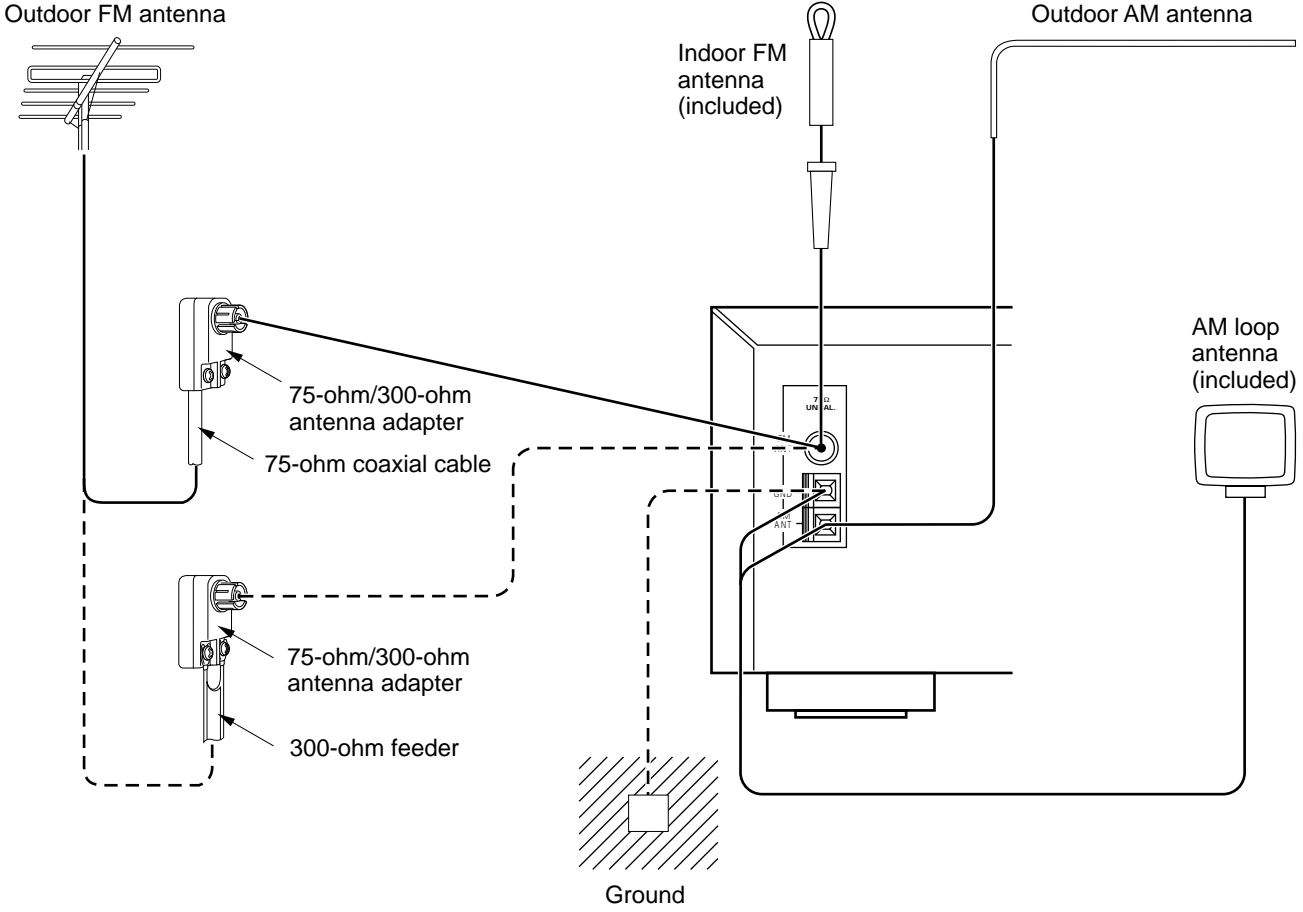
**Rear:** The impedance of each speaker must be 8Ω or higher.

<General model>

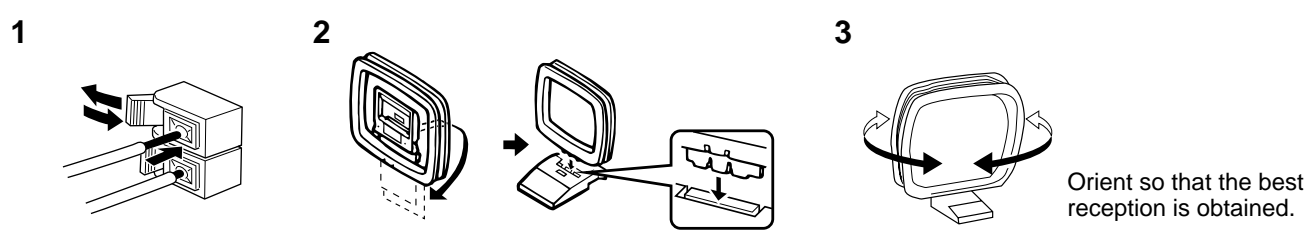


# ANTENNA CONNECTIONS

- Each antenna should be connected to the designated terminals correctly, referring to the following diagram.
- Both AM and FM indoor antennas are included with this unit. In general, these antennas will probably provide sufficient signal strength. Nevertheless, a properly installed outdoor antenna will give clearer reception than an indoor one. If you experience poor reception quality, an outdoor antenna may result in improvement.



## Connecting the AM loop antenna



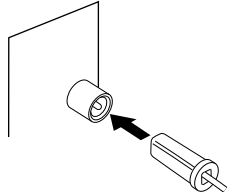
- \* The AM loop antenna should be placed apart from the main unit. The antenna may be hung on a wall.
- \* The AM loop antenna should be kept connected, even if an outdoor AM antenna is connected to this unit.

## GND terminal

For maximum safety and minimum interference, connect the **GND** terminal to a good earth ground. A good earth ground is a metal stake driven into moist earth.

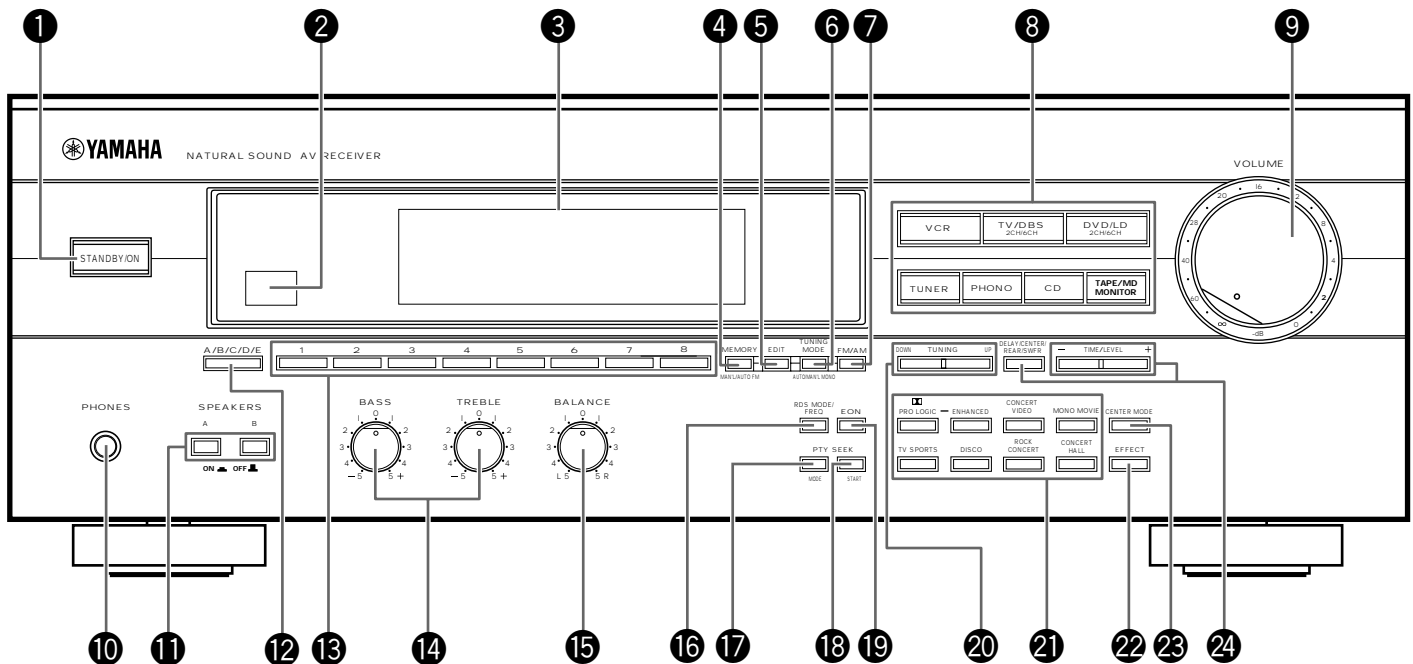
### Notes

- When connecting the indoor FM antenna, insert its connector into the **FM ANT** terminal firmly.
- If you need an outdoor FM antenna to improve FM reception quality, either 300-ohm feeder or coaxial cable may be used. In locations troubled by electrical interference, coaxial cable is preferable.



# CONTROLS AND THEIR FUNCTIONS

## FRONT PANEL



### 1 STANDBY/ON switch

Press this switch to turn the power to this unit on. Press it again to put this unit in the standby mode.

In STANDBY, this unit consumes a very small quantity of power to receive infrared signals from the remote control transmitter.

### 2 Remote control sensor

Receives signals from the remote control transmitter.

### 3 Display panel

Shows various information. (Refer to page 16.)

### 4 MEMORY (MAN'L/AUTO FM) button

Press this button to preset AM and FM radio frequencies manually. (Refer to page 27.)

When this button is pressed and held for more than 3 seconds, automatic preset tuning begins. (Refer to page 28.)

### 5 EDIT button

This button is used to exchange the places of two preset stations with each other. (Refer to page 29.)

### 6 TUNING MODE (AUTO/MAN'L MONO) button

Press this button to switch the tuning mode to automatic or manual. To select the automatic tuning mode, press this button so that the AUTO indicator lights up on the display. To select the manual tuning mode, press this button so that the AUTO indicator goes off.

### 7 FM/AM button

Press this button to switch the reception band to FM or AM.

### 8 Input selector buttons

Select a program source to listen to or watch. When a button is pressed, the name of selected source appears on the display.

When either the **TV/DBS** or **DVD/LD** input source is selected, pressing the same selector button repeatedly switches the input signals between 2 channel stereo signals and 6 channel discrete signals. When switched to "6ch", discrete signals from the unit connected to the **6CH DISCRETE INPUT** terminals of this unit are selected as the input signals.

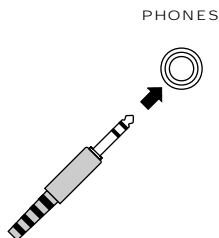
### 9 VOLUME control

Use to raise or lower the volume level.

**10 PHONES jack**

To listen with headphones, connect the headphones to the **PHONES** jack. The sound output from the **PHONES** jack is the same as that from the main speakers.

When listening with headphones privately, set both the **SPEAKERS A** and **B** switches to the **OFF** position and switch off the digital sound field processor (so that no DSP program indicator is lit in the display) by pressing the **EFFECT** button.

**11 SPEAKERS switches**

Set the switch **A** or **B** (or both **A** and **B**) for the main speaker system (connected to this unit) you will use to the **ON** position. Set the switch for the main speaker system you will not use to the **OFF** position. (Refer to page 25.)

**12 A/B/C/D/E button**

Press this button to select a desired group (A–E) of preset stations. (Refer to page 27.)

**13 Preset station number selector buttons**

Press to select a preset station number (1 to 8). (Refer to page 27.)

**14 Tone controls**

These controls are effective only for the sound from the main speakers. (Refer to page 25.)

**BASS**

Used to increase or decrease the low frequency response. The 0 position produces flat response.

**TREBLE**

Used to increase or decrease the high frequency response. The 0 position produces flat response.

**15 BALANCE control**

This control is effective only for the sound from the main speakers.

Adjusts the balance of the output volume to the left and right speakers to compensate for sound imbalance caused by speaker location or listening room conditions. (Refer to page 25.)

**16 RDS MODE/FREQ button RX-V395RDS only**

When an RDS station is received, pressing this button repeatedly changes the display to the PS mode, PTY mode, RT mode, CT mode (RDS services subject to availability), and station frequency in turn. (Refer to page 32.)

**17 PTY SEEK MODE button RX-V395RDS only**

When this button is pressed, the unit turns into the PTY SEEK mode. (Refer to page 33.)

**18 PTY SEEK START button RX-V395RDS only**

Press this button to begin searching for a station after the desired program type is selected in the PTY SEEK mode. (Refer to page 33.)

**19 EON button RX-V395RDS only**

Press this button to select a specified program type (NEWS, INFO, AFFAIRS, SPORT) when you want to locate a radio program of that type automatically. (Refer to page 34.)

**20 TUNING DOWN/UP button**

Use for tuning radio stations. Press the UP side to tune in to higher frequencies, and press the DOWN side to tune in to lower frequencies.

**RX-V395RDS only** When this unit is in the PTY SEEK mode, press either side of this button to change the currently selected program type.

**21 DSP program selector buttons**

Select a DSP program. When a button is pressed, the name of selected program lights up on the display. (Refer to page 35.)

**22 EFFECT button**

Switches the digital sound field processor on and off (including the Dolby Pro Logic Surround decoder). (Refer to page 36.)

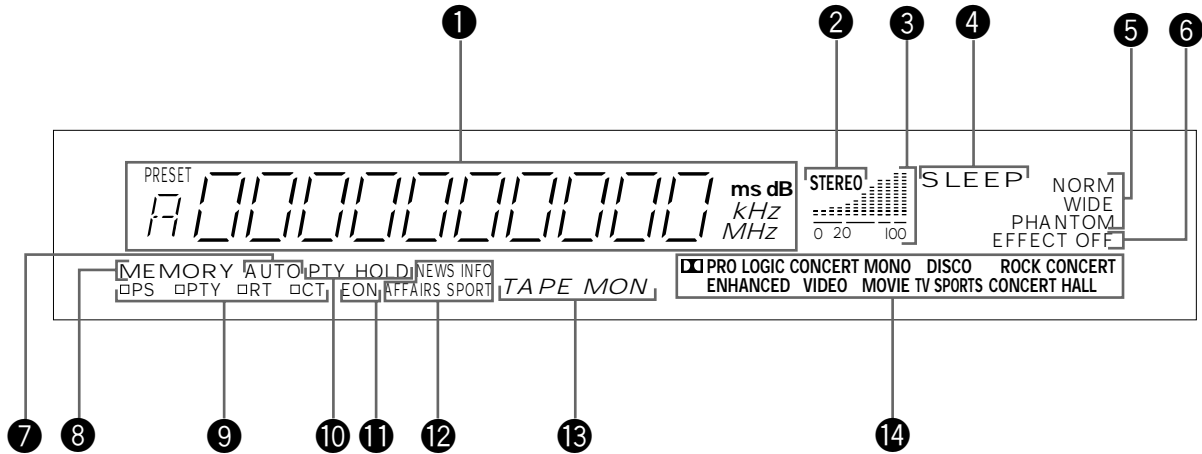
**23 CENTER MODE button**

Selects a center channel output mode (NORMAL, WIDE or PHANTOM). (Refer to page 20.)

**24 DELAY/CENTER/REAR/SWFR and TIME/LEVEL +/- buttons**

Adjust the delay time (DELAY), the center channel output level (CENTER), the rear channel output level (REAR) and the output level to the **SUBWOOFER OUTPUT** terminal (SWFR). Select the item which you want to adjust by pressing the **DELAY/CENTER/REAR/SWFR** button and adjust its time or level by pressing the **TIME/LEVEL +/-** button. (Refer to pages 25, 37, and 38.)

# DISPLAY PANEL



## 1 Multi-information display

Displays various information, for example station frequency, preset station number and name of selected input source.

## 2 STEREO indicator

Lights up when an FM stereo broadcast with sufficient signal strength is received.

## 3 Signal-level meter

Indicates the signal level of the received station. If multipath interference is detected, the indication decreases.

## 4 SLEEP indicator

Lights up while the built-in SLEEP timer is functioning.

## 5 Center channel mode indicators

The name of a selected center channel mode lights up only when a program which uses Dolby Pro Logic Surround is selected.

## 6 EFFECT OFF indicator

Lights up if neither the digital sound field processor nor the Dolby Pro Logic Surround decoder is on. In this state, sound output is 2-channel stereo.

## 7 AUTO indicator

Lights up when this unit is in the automatic tuning mode.

## 8 MEMORY indicator

When the **MEMORY** button is pressed, this indicator flashes for about 5 seconds. During this period, the displayed station can be programmed to the memory by using the **A/B/C/D/E** button and the preset station number selector buttons.

## 9 RDS mode indicators **RX-V395RDS only**

The name(s) of RDS mode(s) employed by the currently received RDS station light(s) up. Illumination of the indicator on the head of a name shows that the corresponding RDS mode is now selected.

## 10 PTY HOLD indicator **RX-V395RDS only**

Lights up while the search is performed in the PTY SEEK mode.

## 11 EON indicator **RX-V395RDS only**

Lights up when an RDS station that employs the EON data service is received.

## 12 Program type name indicators **RX-V395RDS only**

The name selected in the EON mode lights up.

## 13 TAPE MON indicator

Lights up when the tape deck (or MD recorder, etc.) is selected as the input source by pressing the **TAPE/MD MONITOR** button.

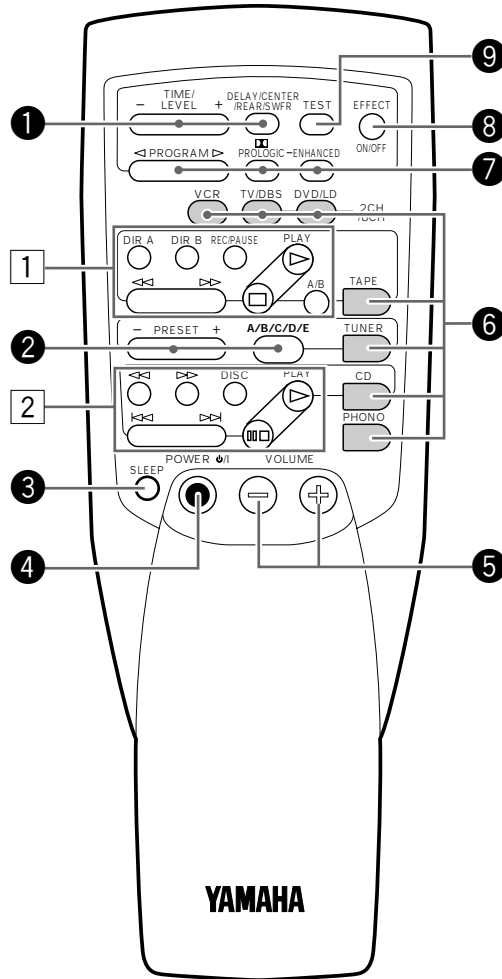
## 14 DSP program indicators

The name of a selected DSP program lights up when the built-in digital sound field processor or the Dolby Pro Logic Surround decoder is on.



# REMOTE CONTROL TRANSMITTER

The remote control transmitter provided with this unit is designed to control all the most commonly used functions of this unit. If the CD player and tape deck connected to this unit are YAMAHA components designed for remote control compatibility, then this remote control transmitter will also control various functions of each component.



## For Control of This Unit

### 1 DELAY/CENTER/REAR/SWFR and TIME/LEVEL +/- keys

Adjust the delay time (DELAY), the center channel output level (CENTER), the rear channel output level (REAR) and the output level to the **SUBWOOFER OUTPUT** terminal (SWFR). Select the item which you want to adjust by pressing the **DELAY/CENTER/REAR/SWFR** key and adjust the time or level by pressing the **TIME/LEVEL +/-** key. (Refer to pages 25, 37 and 38.)

### 2 Tuner keys

Use to tune stations or to select a preset station.

**PRESET +**: Selects higher preset station number.

**PRESET -**: Selects lower preset station number.

**A/B/C/D/E**: Selects the group (A-E) of preset station numbers.

### 3 SLEEP timer key

Use to turn the built-in SLEEP timer on and off, and to set the SLEEP time. (Refer to page 39.)

### 4 POWER $\phi$ /I key

Turns the power to this unit on and puts this unit into the standby mode alternately.

### 5 VOLUME +/- keys

Turn the volume level up and down.

### 6 Input selector keys

Use to select the input source.

When the **TV/DBS** or **DVD/LD** input source is selected, pressing the same key (TV/DBS or DVD/LD) switches the input signals between 2 channel stereo signals and 6 channel discrete signals. When switched to "6ch", discrete signals from the unit connected to the **6CH DISCRETE INPUT** terminals of this unit are selected as the input signals.

### 7 Program selector keys

#### PROGRAM:

When the built-in digital sound field processor (including the Dolby Pro Logic Surround decoder) is on, this key changes the currently selected DSP program whenever the right or left side of this key is pressed.

#### PROLOGIC:

Directly selects the **PRO LOGIC** program.

#### ENHANCED:

Directly selects the **PRO LOGIC ENHANCED** program.

### 8 EFFECT ON/OFF key

Switches the digital sound field processor on and off (including the Dolby Pro Logic Surround decoder). (Refer to page 36.)

### 9 TEST key

Used for speaker balance adjustment. (Refer to pages 19–21.)

## For Other Component Control

Identify the remote control transmitter keys with your component's keys. If these keys are identical, their functions will be the same. For each key function, refer to the instruction manual supplied with the appropriate component.

### 1 Tape deck keys

Use to control a cassette deck.

\* **DIR A, B** and **A/B** are applicable only to double cassette tape deck.

\* For a single cassette deck with automatic reverse function, pressing **DIR A** will reverse the direction of tape running.

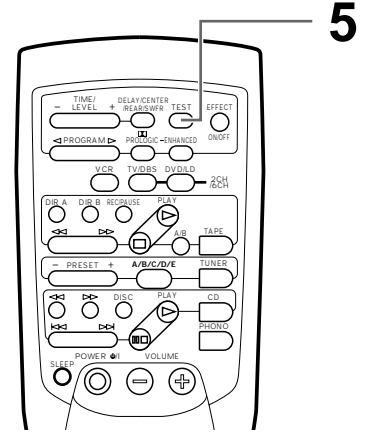
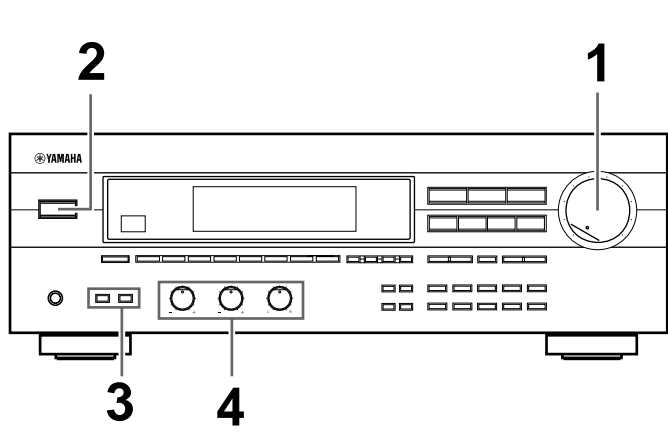
### 2 CD player keys

Use to control a compact disc player.

\* **DISC** is applicable only to a compact disc changer.

# SPEAKER BALANCE ADJUSTMENT

This procedure lets you adjust the sound output level balance between the main, center, and rear speakers using the built-in test tone generator. When this adjustment is performed, the level heard at the listening position should sound the same from each speaker. This is important for the best performance of the digital sound field processor and the Dolby Pro Logic Surround decoder.



**1**

Set **VOLUME** to the minimum level ( $-\infty$  dB).

**2** Turn the power on.

**3** Select the main speakers to be used.

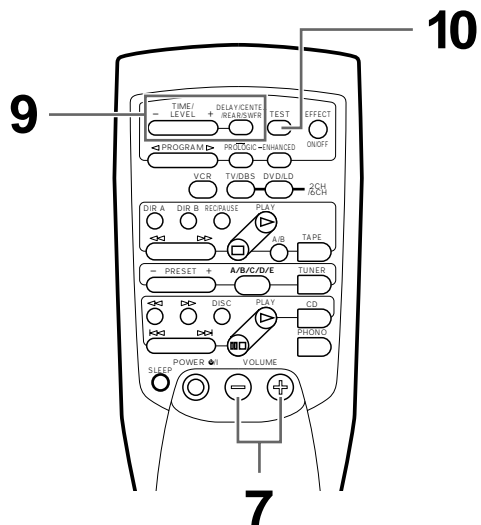
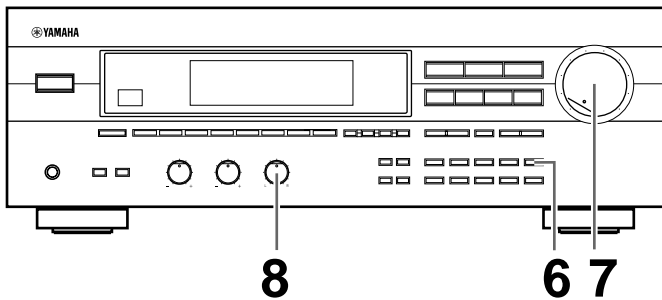
\* If you use two main speaker systems, press both the A and B switches.

**4**

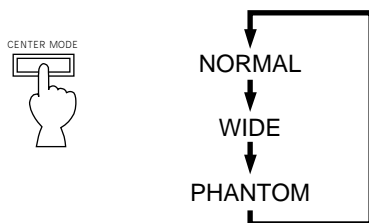
Set **BASS**, **TREBLE** and **BALANCE** to the "0" position.

**5**

TEST LEFT



**6** Select the center channel output mode suitable for your speaker configuration.  
(Refer to **"SPEAKER CONFIGURATION"** on page 7.)



On the feature of each mode, refer to the **"Note"** shown below.

**Note**

In step 6, when you select a center channel output mode, note the following.

**For 5 speaker configuration**

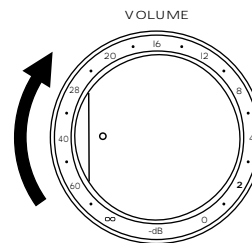
**NORMAL:** Select this mode when you use a center speaker that is smaller than the main speakers. In this mode, the bass tone will be output from the main speakers.

**WIDE:** Select this mode when you use a center speaker approximately the same size as the main speakers.

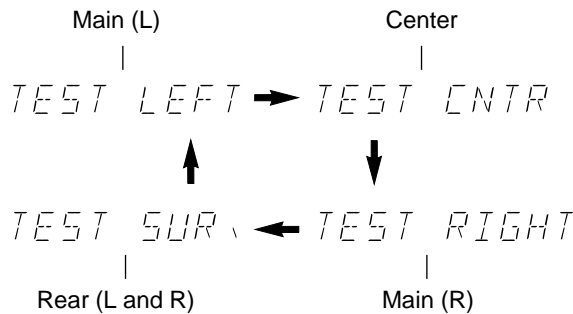
**For 4 speaker configuration**

**PHANTOM:** Select this mode when you do not use the center speaker. The center speaker sound will be output from the left and right main speakers.

**7** Turn up the volume.



You will hear a test tone (like pink noise) in order from the left main speaker, the center speaker, the right main speaker, and then the rear speakers for about two seconds each. The display changes as shown below.



\* The test tone from the left rear speaker and the right rear speaker will be heard at the same time.

**8** Adjust the **BALANCE** control so that the sound output level of the left main speaker and the right main speaker are the same.



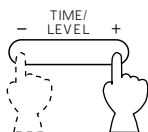
**9** Adjust the sound output levels of the center speaker and the rear speakers so that they sound as similar as possible to the level of the main speakers.

Make the adjustment of each speaker output level at your listening position with the remote control transmitter.

- a) Press once or more so that "CENTER" or "REAR" appears on the display.
  - \* Select "CENTER" to adjust the output level of the center speaker, and select "REAR" to adjust the output level of the rear speakers.



- b) Adjust the level.
  - \* Pressing the + side raises the level and the – side lowers the level.



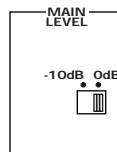
**10** Cancel the test tone.



TEST LEFT  
|  
Disappears.

**MAIN LEVEL switch RX-V395RDS only**

If the main speakers are distinctly louder than the rear speakers even after making balance adjustments, it is possible to decrease the output level of the MAIN SPEAKERS terminals by 10 dB by setting this switch to "–10 dB". Otherwise, keep this switch set to "0 dB".

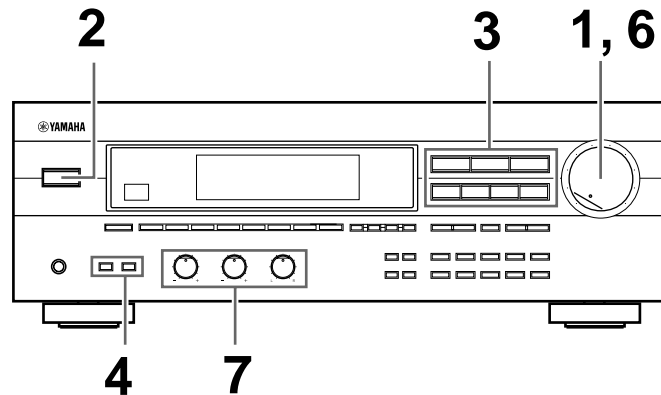


**Notes**

- Once you have completed these adjustments, you can adjust the overall sound level of your audio system by using the **VOLUME** control (or the **VOLUME** keys on the remote control transmitter) only.
- If you use external power amplifiers, you may also use their volume controls to achieve proper balance.
- In step 9, if the center channel mode is in the "PHANTOM" position, the sound output level of the center speaker cannot be adjusted, because the center sound is automatically output from the left and right main speakers.

# BASIC OPERATIONS

## TO PLAY A SOURCE



**1**

Set **VOLUME** to the minimum level ( $-\infty$  dB).

**2** Turn the power on.

**3** Select the desired input source by using the input selector buttons. (For video sources, turn the TV/monitor ON.)

\* The name of the selected input source will appear on the display.

**4** Select the main speakers to be used.

\* If you use two main speaker systems, press both the A and B switches.

**5** Play the source. (For detailed information on tuning operations, refer to page 26.)

**6**

Adjust to the desired output level.

**7** If desired, adjust **BASS**, **TREBLE** and **BALANCE** (refer to page 25), and/or use the digital sound field processor. (Refer to page 36.)

### Notes on using the input selector buttons

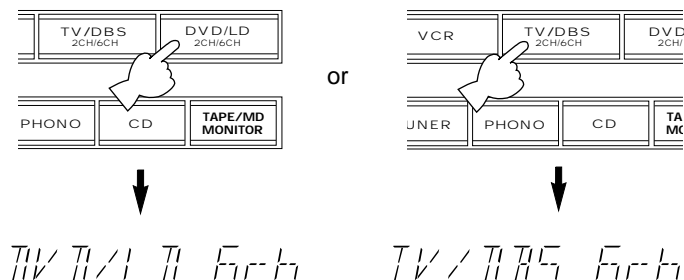
- Note that pressing each input selector button selects the source which is connected to the corresponding input terminals on the rear panel.
- The selection of **TAPE/MD MONITOR** cannot be canceled by pressing another input selector button. To cancel it, press **TAPE/MD MONITOR** again so that the TAPE MON indicator disappears from the display. When you select a button other than **TAPE/MD MONITOR**, make sure that the TAPE MON indicator is not illuminated on the display.
- If you select the input selector button for a video source without canceling the selection of **TAPE/MD MONITOR**, the playback result will be the video image from the video source and the sound from the audio tape (or MD, etc.).
- Once you play a video source, its video image will not be interrupted even if the input selector button for an audio source is selected.

### When you finish using this unit

Press the **STANDBY/ON** switch on the front panel again or the **POWER  $\phi$  / I** key on the remote control transmitter to put this unit in the standby mode.

## To listen to a source with Dolby Digital, DTS or other future format by reproducing the decoded signals input at the 6CH DISCRETE INPUT terminals of this unit.

In step 3 on page 22, press either the DVD/LD or TV/DBS button once or more so that "6ch" appears in the display. Discrete signals from the component connected to the **6CH DISCRETE INPUT** terminals of this unit are selected as the input signals.



## To stop listening to a decoded source with Dolby Digital, DTS, or other future format

Press the DVD/LD or TV/DBS button again to switch the input from six channel input to two channel input or select another input source. When two channel input is selected, the **6CH DISCRETE INPUT** terminals are not used.

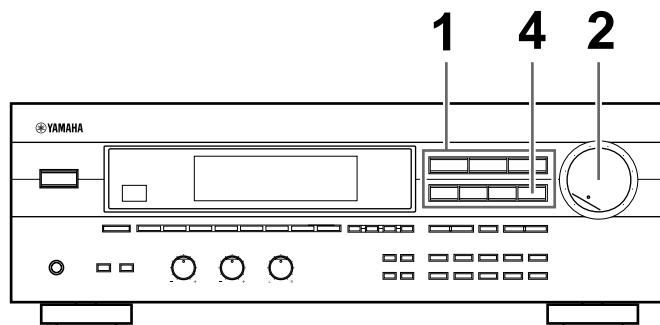
## Notes on reproducing discrete signals with Dolby Digital, DTS, or other future format:

1. Your speaker system must include a center speaker.
2. Your speaker system should include a subwoofer.
  - \* Connect a subwoofer which has a built-in amplifier directly to the **SUBWOOFER OUTPUT** terminal of this unit. For more details on hooking up a subwoofer to this unit, refer to pages 10 and 12.
  - \* If you do not have a subwoofer in your system, it may be possible to make a setting on the Dolby Digital, DTS, or other future format decoder to distribute LFE channel signals to the right and left MAIN output terminals. For details, refer to the owner's manual supplied with your decoder.

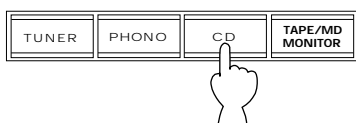
## Notes

- When you switch to the "6ch" mode, the built-in digital sound field processor (DSP) will not work and adjustments to delay time settings cannot be made.
- Switching this unit to the "6ch" mode will input no signal to this unit if there is no connection made to the **6CH DISCRETE INPUT** terminals of this unit.

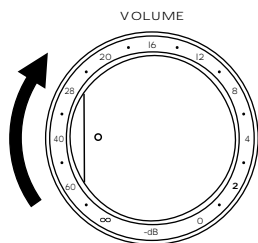
## TO RECORD A SOURCE TO TAPE OR MD



- 1** Select the source to be recorded.

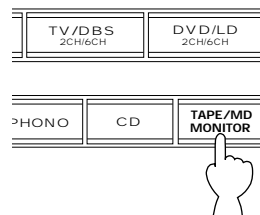


- 2** Play the source and then turn the **VOLUME** control up to confirm the input source. (For detailed information on tuning operations, refer to the page 26.)



- 3** Begin recording on the tape deck (or MD recorder, etc.) or VCR connected to this unit.

- 4** If the tape deck (or MD recorder, etc.) is used for recording, you can monitor the sounds being recorded by pressing **TAPE/MD MONITOR** so that the “TAPE MON” indicator lights up on the display.



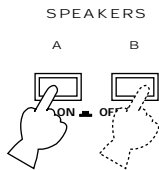
### Notes

- The settings of DSP and the **VOLUME**, **BASS**, **TREBLE** and **BALANCE** controls have no effect on the material being recorded.
- In step 1, do not make an input source selection so that “6ch” appears on the display. Signals input to this unit’s **6CH DISCRETE INPUT** terminals cannot be recorded by a tape deck, MD recorder or VCR.



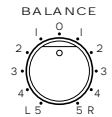
## Selecting the SPEAKER system

Because one or two speaker systems (as main speakers) can be connected to this unit, the **SPEAKERS** switches allow you to select speaker system **A** or **B**, or both at once.



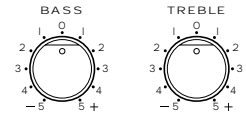
## Adjusting the BALANCE control

Adjust the balance of the output volume to the left and right speakers to compensate for sound imbalance caused by speaker location or listening room conditions.



**Note**  
This control is effective only for the sound from the main speakers.

## Adjusting the BASS and TREBLE controls



**BASS** : Turn this clockwise to increase (or counterclockwise to decrease) the low frequency response.

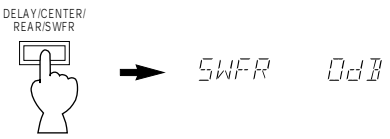
**TREBLE** : Turn this clockwise to increase (or counterclockwise to decrease) the high frequency response.

**Note**  
These controls are effective only for the sound from the main speakers.

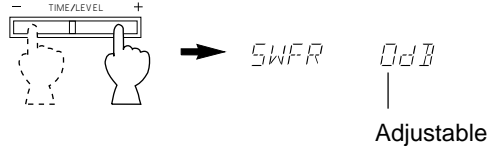
## Adjusting the subwoofer output level

If your audio system includes a subwoofer, and an amplifier driving the subwoofer (or a subwoofer system including an amplifier) is connected to the **SUBWOOFER OUTPUT** terminal on the rear of this unit, you can adjust the subwoofer output level on this unit.

**1** Press once or more so that "SWFR" appears on the display.



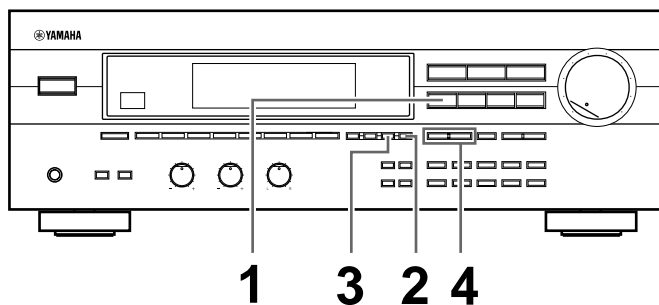
**2** By continuously pressing the "+" or "-" side of the **TIME/LEVEL** button, the level value changes continuously. If you feel that bass tone is insufficient, increase the level, and if you feel that bass tone is overly emphasized, decrease the level.



**Control range:** MIN, -20 to 0 dB

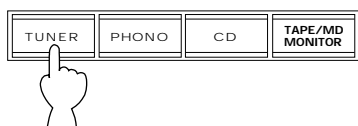
# TUNING OPERATIONS

Normally, if station signals are strong and there is no interference, quick automatic-search tuning (AUTOMATIC TUNING) is possible. However, if signals of the station you want to select are weak, you must tune to it manually (MANUAL TUNING).

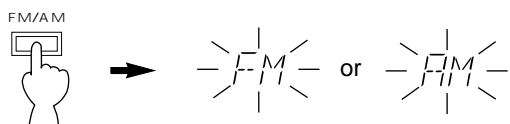


## AUTOMATIC TUNING

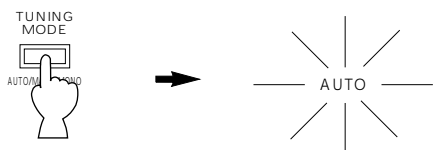
- 1** Select "TUNER" as the input source.



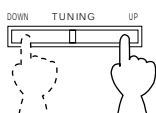
- 2** Select the reception band (FM or AM) confirming it in the display.



- 3** To tune to a higher frequency, press the right side once. To tune to a lower frequency, press the left side once.



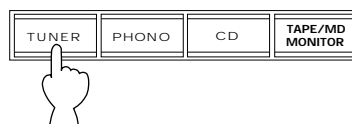
- 4** To tune to a higher frequency, press the right side once. To tune to a lower frequency, press the left side once.



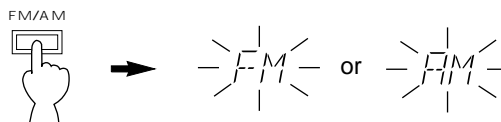
- \* If the station where tuning search stops is not the desired one, press again.
- \* If the tuning search does not stop at the desired station (because the signals of the station are weak), change to the MANUAL TUNING method.

## MANUAL TUNING

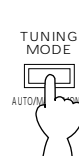
- 1** Select "TUNER" as the input source.



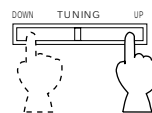
- 2** Select the reception band (FM or AM) confirming it in the display.



- 3** Turn the "AUTO" indicator off.



- 4** Tune to a desired station manually.



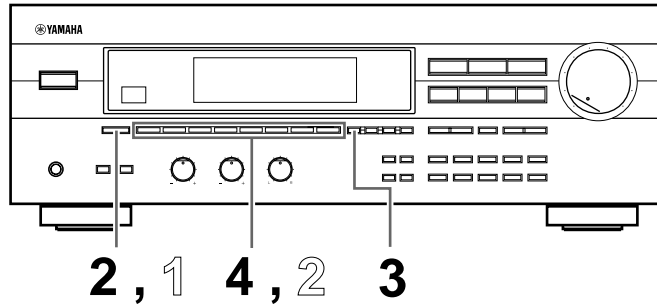
- \* For a continuous tuning search, press and hold the button.

### Notes

- If you tune to an FM station manually, it is received in monaural mode automatically to increase the signal quality.
- **RX-V395RDS only** When tuned to a station, the frequency of the received station is shown on the display. If an RDS station that employs PS data service is received, the frequency is then replaced by the station name. Refer to page 32 for details.

## MANUAL PRESET TUNING

This unit can store station frequencies selected by tuning operation. With this function, you can recall any desired station by selecting the preset station number where it is stored. Up to 40 stations (5 groups of 8 stations) can be stored.



### To store stations

- 1** Tune to a desired station.  
(Refer to the previous page for tuning procedure.)
- 2** Select a desired group (A – E) of preset stations confirming it in the display.
- 3**

Flashes on and off for about 5 seconds.
- 4** Select a preset station number where you want to program the station while the “MEMORY” indicator appears in the display.

Shows the displayed station has been programmed to A1.

\* In the same way, program other stations to A2, A3 ... A8.  
\* You can program more stations to preset station numbers on other groups in the same way by selecting other groups in step 2.

### To recall a preset station

- 1** Select the group of preset stations.
- 2** Select the preset station number.

#### Notes

- A new setting can be programmed to replace a former setting.
- For presets, the setting of the reception mode (stereo or monaural) is stored along with the station frequency.

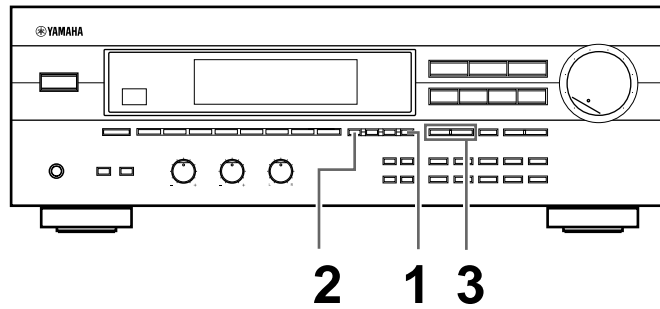
#### Memory back-up

The memory back-up circuit prevents the programmed data from being lost even if this unit is put in the standby mode, the power plug is disconnected from the AC outlet, or the power is cut due to temporary power failure. If, however, the power is cut for more than one week, the memory may be erased. If so, it can be re-programmed by simply following the PRESET TUNING steps.

# AUTOMATIC PRESET TUNING

You can also make use of an automatic preset tuning function for FM stations only. With this function, this unit performs automatic tuning and stores stations with strong signals sequentially. Up to 40 stations are stored automatically in the same way as in the manual preset tuning method on page 27.

**RX-V395RDS only** Automatic preset tuning stores only RDS stations. Refer to pages 30 to 34 for details on RDS stations.



## To store stations

<b>1</b>	
<b>2</b>	<p>Press and hold for more than 3 seconds.</p> <p style="text-align: center;">Flashes.</p>
<b>3</b>	<p>To tune to higher frequencies, press right side once. To tune to lower frequencies, press left side once.</p> <p>* If the <b>TUNING</b> button is not pressed for a while, automatic preset tuning begins automatically toward higher frequencies.</p> <p>Automatic preset tuning begins from the frequency currently displayed. Received stations are programmed to A1, A2 ... A8 sequentially.</p> <p>* If more than 8 stations are received, they are programmed to the preset station numbers in other groups in alphabetical order.</p>

## When the automatic preset tuning concludes

The display shows the frequency of the last preset station. Check the contents and the number of preset stations by following the procedure of the section "To recall a preset station" on page 27.

## To recall a preset station

Follow the procedure in the section "To recall a preset station" on page 27.

- \* **RX-V395RDS only** A recalled station is shown by the frequency or station name in the display.
- \* **RX-V395 only** A recalled station is shown by the frequency in the display.

## Notes

- You can replace a preset station with another FM or AM station manually by following the procedure in the section "To store stations" on page 27.
- If the number of received stations is not enough to be stored up to E8, the search is finished automatically after searching all frequencies.
- With this function, only stations with sufficient signal strength are stored automatically. If the station you want to program is weak in signal strength, tune to it in monaural manually and program it by following the procedure in the section "To store stations" on page 27.

**RX-V395RDS only** There may be a case that this function cannot receive a station which could be received by the automatic tuning method. This is because this function receives a large volume of PI (Program Identification) data along with the station.

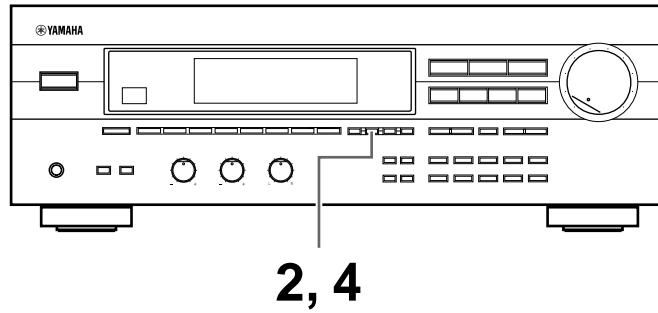
## If you want to store the first station received by the automatic preset tuning to a desired preset station number.

If, for example, you want to store the first received station to C5, select "C5" by using the **A/B/C/D/E** button and the preset station number selector buttons after pressing the **MEMORY** button in step 2. Then press the **TUNING** button. The first received station is stored to C5, and next stations to C6, C7 ... sequentially.

If stations are stored up to E8, the automatic preset tuning is automatically concluded.

# EXCHANGING PRESET STATIONS

You can exchange the places of two preset stations with each other as shown below.



### Example)

If you want to shift the preset station on E1 to A5, and vice versa.

<b>1</b>	Recall the preset station on E1 (by following the method in "To recall a preset station" on page 27).
<b>2</b>	<p>Flashes.</p>
<b>3</b>	Next, recall the preset station on A5 by following the same method as step 1.
	<p>Flashes.</p>

<b>4</b>	<p>Shows the exchange of stations is completed.</p>
----------	---

In areas where RDS broadcasts cannot be received, the RDS broadcast functions do not operate. (The procedures from page 30 to page 34 are not necessary.)

## RECEIVING RDS STATIONS (RX-V395RDS only)

RDS (Radio Data System) is a data transmission system gradually being introduced by FM stations in many countries. Stations using this system transmit an inaudible stream of data in addition to the normal radio signal.

RDS data contains various information, such as PI (Program Identification), PS (Program Service name), PTY (Program Type), RT (Radio Text), CT (Clock Time), EON (Enhanced Other Networks), etc.

RDS function is carried out among the network stations.

\* This unit utilizes PI, PS, PTY, RT, CT and EON to receive RDS broadcast stations.

### Displaying RDS data



This unit can be turned into the following five modes to display RDS data.

#### **PS (Program Service name) mode:**

Displays the name of the RDS station currently being received instead of the frequency.

#### **PTY (Program Type) mode:**

Displays the type of the program on the RDS station currently being received. There are 15 program types to classify RDS stations. Refer to the next page for details.

#### **RT (Radio Text) mode:**

Displays information about the program (such as title of the song, name of the singer, etc.) on the RDS station currently being received.

#### **CT (Clock Time) mode:**

Displays current time. This signal comes from the RDS station currently being received.

#### **EON (Enhanced Other Networks) mode:**

Automatically receives a program of the designated program type when its broadcast starts in place of the program currently being received. When the broadcast of the called program ends, the previously received program (or another program on the same station) is recalled.

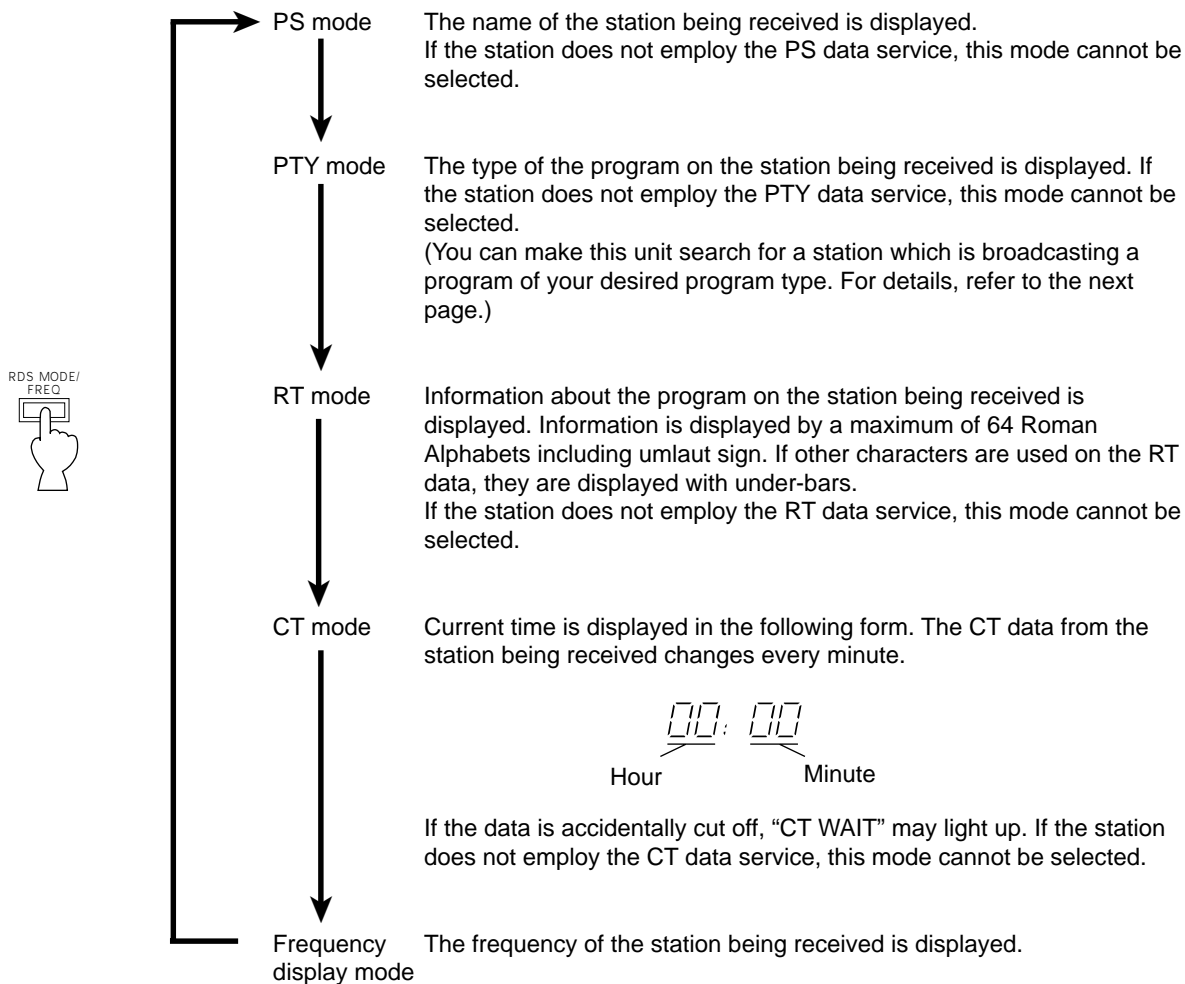
## Program types in the PTY mode

<b>NEWS</b>	<b>News:</b> Short accounts of facts, events and publicly expressed views, reportage and actuality.	<b>VARIED</b>	<b>Varied:</b> Used for mainly speech-based programs usually of light-entertainment nature, not covered by above categories. Examples are: quizzes, panel games, personality interviews, comedy and satire.
<b>AFFAIRS</b>	<b>Current affairs:</b> Topical program expanding or enlarging upon the news, generally in different presentation style or concept, including documentary debate, or analysis.	<b>POP M</b>	<b>Pop:</b> Commercial music, which would generally be considered to be of current popular appeal, often featuring in current or recent record sales charts.
<b>INFO</b>	<b>Information:</b> Program whose purpose is to impart advice in the widest sense, including meteorological reports and forecasts, consumer affairs, medical help, etc.	<b>ROCK M</b>	<b>Rock:</b> Contemporary modern music, usually written and performed by young musicians.
<b>SPORT</b>	<b>Sport:</b> Program concerned with any aspect of sport.	<b>M.O.R. M</b>	<b>M.O.R.:</b> (Middle of the Road Music). Common term to describe music considered to be “easy-listening”, as opposed to Pop, Rock or Classical. Music in this category is often but not always, vocal, and usually of short duration (<5 min.).
<b>EDUCATE</b>	<b>Education:</b> Program intended primarily to educate, of which the formal element is fundamental.	<b>LIGHT M</b>	<b>Light classics:</b> Classical Musical for general, rather than specialist appreciation. Examples of music in this category are instrumental music, and vocal or choral works.
<b>DRAMA</b>	<b>Drama:</b> All radio plays and serials.	<b>CLASSICS</b>	<b>Serious classics:</b> Performances of major orchestral works, symphonies, chamber music, etc., including Grand Opera.
<b>CULTURE</b>	<b>Culture:</b> Programs concerned with any aspect of national or regional culture, including religious affairs, philosophy, social science, language, theatre, etc.	<b>OTHER M</b>	<b>Other music:</b> Musical styles not fitting into any of the above categories. Particularly used for specialist music, of which Jazz, Rhythm & Blues, Folk, Country, and Reggae are examples.
<b>SCIENCE</b>	<b>Science:</b> Programs about the natural sciences and technology.		

## Changing the RDS modes

When an RDS station is received, "PS", "PTY", "RT" and/or "CT" that correspond to the RDS data services employed by the station light up in the display. By pressing the **RDS MODE/FREQ** button once or more, you can change the display mode among the RDS modes employed by the received station in the order shown below. (The RDS mode not employed by the station cannot be selected.) Illumination of the indicator at the head of a name of an RDS mode shows that the corresponding RDS mode is selected.

- \* When an RDS station is received, do not press the **RDS MODE/FREQ** button until one or more RDS mode names light up in the display. If the button is pressed before one or more names light up in the display, the mode cannot be changed because the unit has not received all of the RDS data on the station yet.
- \* If no RDS mode name lights up in the display, the mode cannot be changed.



### Notes

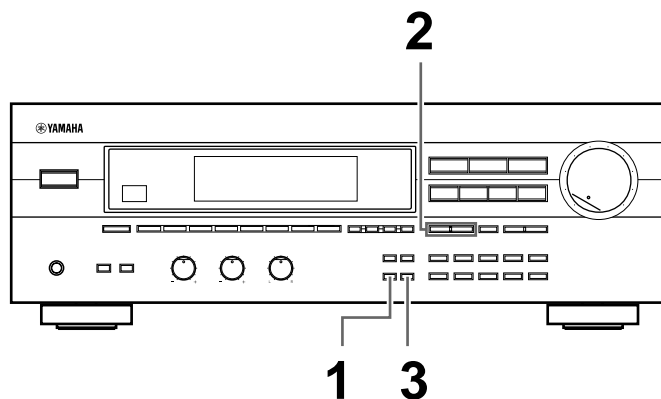
- RDS data service cannot be utilized by this unit if the received signal is not strong enough. The RT (Radio Text) in particular transmits a great deal of data and needs strong signal reception to be successfully transmitted, so it may occur that RT mode cannot be displayed even if other RDS modes (PS, PTY, etc.) are displayed.
- There may be a case that RDS data reception is not possible due to poor reception conditions. If so, press the **TUNING MODE** button so that the "AUTO" indicator goes off from the display. Though the reception mode is changed to monaural by this operation, when you change the display to an RDS mode, RDS data may be displayed.
- If the signal strength becomes weakened by external interference during RDS station reception, the RDS data service may be cut off suddenly and "...WAIT" will be displayed.



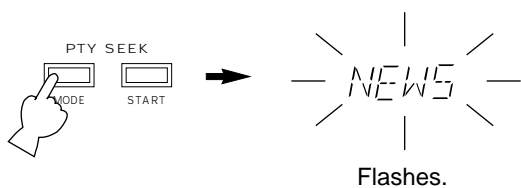
## Calling a program of your desired program type from among preset RDS stations (PTY SEEK) (RX-V395RDS only)

By designating a program type, the unit automatically searches all preset stations for an RDS station which broadcasts a program of that program type.

\* There are 15 program types to classify RDS stations. For details, refer to page 31.

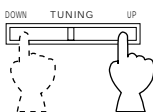


### 1 Put the unit in the PTY SEEK mode.

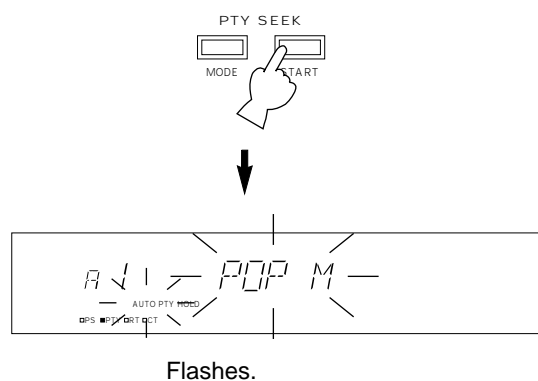


\* The program type of the station now being received or "NEWS" flashes in the display.

### 2 Select the desired program type.



### 3 Begin searching all preset RDS stations.



\* The PTY HOLD indicator lights up in the display.

- If a station which broadcasts a program of the program type is found, the unit stops at the station and the station name (Program Service name) lights in the display.
- If a station found is not one you want, press the **PTY SEEK START** button once more. The unit begins searching for another station which broadcasts a program of the same program type.
- To stop the search, press the **PTY SEEK START** button once more.

#### To cancel this mode

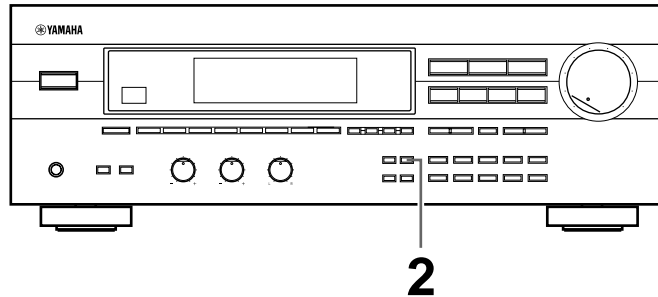
If the **PTY SEEK MODE** button is pressed once more, the PTY SEEK mode is canceled.

## Setting this unit to automatically tune a specified program type when its broadcast starts (RX-V395RDS only)

This function uses the EON (Enhanced Other Networks) data service on the RDS station network.

By selecting a desired program type (NEWS, INFO, AFFAIRS or SPORT), this unit automatically searches all preset RDS stations for a station that broadcasts that type of program in the background of tuner operations. If found, the desired program type is received when its broadcast starts in place of the program which was being received.

\* This function can be used only when an RDS station that employs the EON data service is received. (When such a station is received, the "EON" indicator lights up in the display.)



- 1** Make sure that the "EON" indicator is illuminated in the display.



\* If the "EON" indicator is not illuminated in the display, receive an (or another) RDS station so that the "EON" indicator lights up in the display.

- 2** Select a desired program type, NEWS, INFO, AFFAIRS or SPORT.

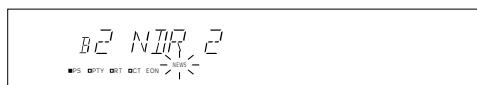


Press once or more.



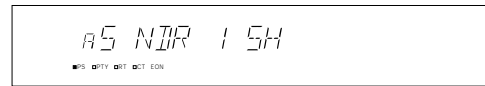
Lights up.

The search is performed among all preset RDS stations in the background. If a program is found, the program is automatically received when its broadcast starts.



Flashes.

- 3** When the broadcast of the program ends, the previously received program (or another program on the same station) is recalled.



### To cancel this function

Press the **EON** button once or more, so that no program type name lights up in the display.

# USING DIGITAL SOUND FIELD PROCESSOR (DSP)

This unit incorporates a sophisticated, multi-program digital sound field processor. The processor allows you to electronically expand and change the shape of the audio sound field from both audio and video sources, creating a theater-like experience in your listening room. You can create an excellent audio sound field by selecting a suitable sound field program (this will, of course, depend on what you will be listening to), and adding desired adjustments.

In addition, this unit incorporates a Dolby Pro Logic Surround decoder for multi-channel sound reproduction of sources encoded with Dolby Surround. The operation of the Dolby Pro Logic Surround decoder can be controlled by selecting a corresponding DSP program including a combined operation of Yamaha DSP and Dolby Pro Logic Surround.

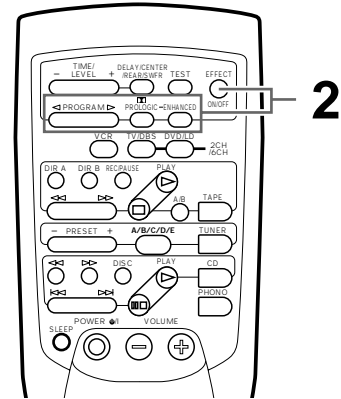
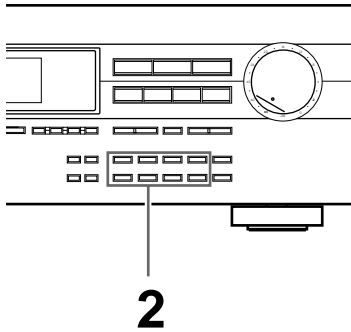
## Brief Overview of Digital Sound Field Programs

The following list gives you a brief description of the sound fields produced by each of the DSP programs. Keep in mind that most of these are precise digital recreations of actual acoustic environments. The data for these sound fields was recorded at actual locations using sophisticated sound field measurement equipment.

**Note**  
The channel level balance between the left and right rear effect speakers may vary depending on the sound field you are listening to. This is due to the fact that most of these sound field recreations are actual acoustic environments.

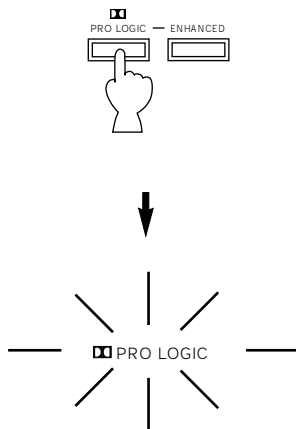
PROGRAM	FEATURE
<b>PRO LOGIC</b>	This program is used for playback of sources encoded with Dolby Surround. The application of a sophisticated digital signal processing system reduces crosstalk and directs or steers the sound source more smoothly and precisely, as compared to conventional types.
<b>PRO LOGIC ENHANCED</b>	This program is also used for playback of sources encoded with Dolby Surround. Enhancing the "Normal" Dolby Pro Logic, the DSP technology simulates the multi-surround speaker systems of a 35 mm movie theater. This effect creates a wide surround sound field, and expands the sound stage with an improved presence image. This program is used for musical based movies, as well as drama and comedy based movies.
<b>CONCERT VIDEO</b>	This program is effective for music videos and gives excellent depth and clarity for vocals. For opera, the orchestra and stage are ideally recreated, letting you feel as if you were in an actual concert hall.
<b>MONO MOVIE</b>	This program is designed specifically to enhance mono source programs. Compared to a strictly mono setting, the sound image created in this mode is wider and slightly forward of the speaker pair, lending an immediacy to the overall sound. It is particularly effective when used with old mono movies, news broadcasts and dialog.
<b>TV SPORTS</b>	This program is furnished with a tight sound field in which the sound will not spread excessively on the front side, but the rear surround side produces a dynamic sound expansion. This program is the most suitable for sports programs.
<b>DISCO</b>	This program recreates the acoustic environment of a lively disco in the heart of a very lively city. The sound is dense and highly concentrated. It is also characterized by a high-energy, "immediate" sound.
<b>ROCK CONCERT</b>	This program is ideally suited for rock music. You will experience a very dynamic or lively sound field.
<b>CONCERT HALL</b>	In this program, the center will appear to be deep behind the main speakers, creating an expansive large hall ambience. Orchestra and opera music are suited for this sound field.

# Applying a digital sound field processor (DSP) effect to an audio source



**1** Follow steps 1 to 6 of the procedure shown in “**TO PLAY A SOURCE**” on page 22.

**2** Select a program that is suitable for the source.

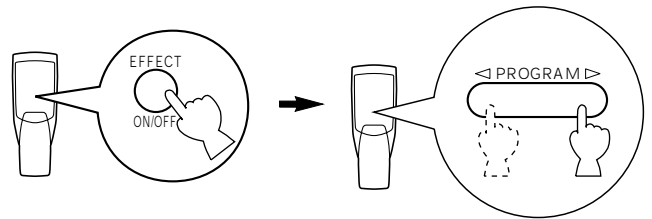


The selected mode indicator lights in the display.

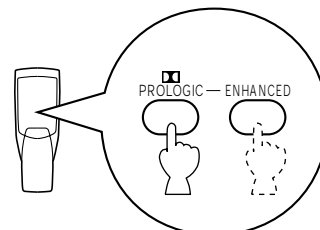
**3** If desired, adjust the delay time and the output level of each speaker. (For details, refer to the descriptions on pages 37 and 38.)

## Notes

- Program selection can be made to individual input sources. Once you select a program, it is linked with the input source selected at that time. So, the next time you select the input source, the same program is automatically recalled.
- If you prefer to cancel the DSP, press the **EFFECT** button. The sound will be the normal 2-channel stereo without surround sound effect.
- When **CONCERT VIDEO, MONO MOVIE, TV SPORTS, DISCO, ROCK CONCERT** or **CONCERT HALL** is selected, no sound is heard from the center speaker.
- When a monaural sound source is played with **DOLBY PRO LOGIC** or **DOLBY PRO LOGIC ENHANCED**, no sound is heard from the rear speakers.
- When this unit's Dolby Pro Logic Surround decoder is used, if the main-source sound is considerably altered by overadjustment of the **BASS** or **TREBLE** control, the relationship between the center and rear channels may produce an unnatural effect.
- To select a DSP program on the remote control transmitter, first turn the DSP on so that a program name lights up on the display by pressing the **EFFECT** key. Next, select a desired DSP program by pressing the **<** or **>** side of **PROGRAM** key.



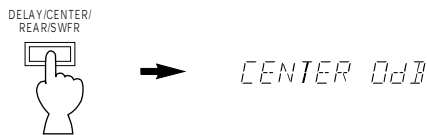
\* Pressing the **PRO LOGIC** or **ENHANCED** key turns the DSP on and selects the corresponding program directly.



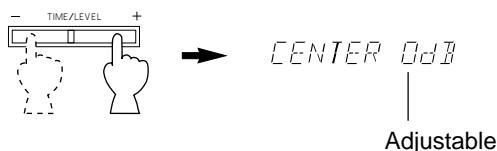
## Adjustment of the CENTER LEVEL

If desired, you can adjust the sound output level of the center speaker even if the output level is already set in “**SPEAKER BALANCE ADJUSTMENT**” on page 19.

- 1 Press repeatedly until “CENTER” appears on the display.



- 2 Pressing and holding the “+” or “-” side of the **TIME/LEVEL** button continuously changes the level value. The value stops changing momentarily at the preset point (0 dB).



**Control range:** MIN, -20 to +10 dB

### Notes

- This adjustment can be made only when the digital sound field program **DOLBY PRO LOGIC** or **DOLBY PRO LOGIC ENHANCED** is selected.
- Once the output level is adjusted, the level value will be the same in all the digital sound field programs mentioned above.

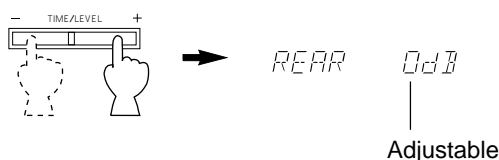
## Adjustment of the REAR LEVEL

If desired, you can adjust the sound output level of the rear speakers even if the output level is already set in “**SPEAKER BALANCE ADJUSTMENT**” on page 19.

- 1 Press repeatedly until “REAR” appears on the display.



- 2 Pressing and holding the “+” or “-” side of the **TIME/LEVEL** button continuously changes the level value. The value stops changing momentarily at the preset point (0 dB).



**Control range:** MIN, -20 to +10 dB

### Notes

- This adjustment can be made only when the built-in digital sound field processor is on.
- Once the output level is adjusted, the level value will be the same in all the digital sound field programs.

# Adjustment of DELAY TIME

You can adjust the time difference between the beginning of the sound from the main speakers and the beginning of the effect sound from the rear speakers. The larger the value, the later the effect sound is generated. This adjustment can be made to all programs individually.

- PRO LOGIC** : from 15 to 30 milliseconds  
(Preset value: 20 milliseconds)
- PRO LOGIC ENHANCED** : from 15 to 30 milliseconds  
(Preset value: 20 milliseconds)
- CONCERT VIDEO** : from 1 to 100 milliseconds  
(Preset value: 28 milliseconds)
- MONO MOVIE** : from 1 to 100 milliseconds  
(Preset value: 20 milliseconds)
- TV SPORTS** : from 1 to 50 milliseconds  
(Preset value: 45 milliseconds)
- DISCO** : from 1 to 100 milliseconds  
(Preset value: 14 milliseconds)
- ROCK CONCERT** : from 1 to 100 milliseconds  
(Preset value: 17 milliseconds)
- CONCERT HALL** : from 1 to 100 milliseconds  
(Preset value: 30 milliseconds)

**1** Press repeatedly until “DELAY” appears on the display.



**2** Pressing and holding the “+” or “-” side of the **TIME/LEVEL** button continuously changes the value. The value stops changing momentarily at the preset point.



## Notes

- When the **TIME/LEVEL** button is pressed, sound is momentarily interrupted.
- Adding too much delay will cause an unnatural effect with some sources.

## Note

The values of the delay time, center level, rear level and subwoofer output level you set will remain memorized even when this unit is in the standby mode. However, if the power cord is kept disconnected for more than one week, these values will be automatically changed back to the original factory settings.

# SETTING THE SLEEP TIMER

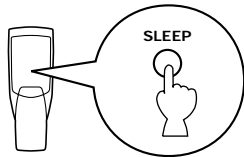
If you use the SLEEP timer of this unit, you can have this unit automatically put in the standby mode after a set period of time. When you want to go to sleep while enjoying a broadcast or other desired input source, this timer function is helpful.

## Notes

- The SLEEP timer can be controlled only with the remote control transmitter.
- The components on which the SLEEP timer is effective are the sources connected to the **SWITCHED AC OUTLET(S)** on the rear panel of this unit.

## To set the SLEEP time

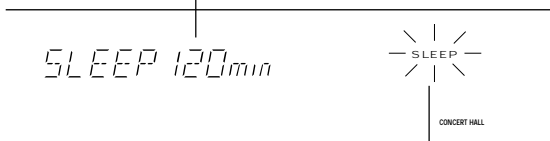
1



Press repeatedly to select the desired SLEEP time.



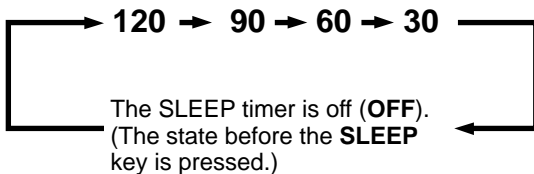
Indicates the SLEEP time.



Lights up.

Whenever the **SLEEP** key is pressed, the SLEEP time will change as follows.

(Minutes)

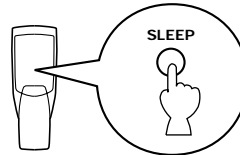


After a while, the display returns to the indication displayed before the SLEEP timer was set.

2

The unit will be turned into the standby mode automatically at the selected SLEEP time.

## To cancel the selected SLEEP time



Press repeatedly until "SLEEP OFF" appears in the display. (It will soon disappear and the "SLEEP" indicator will go off from the display.)

## Note

The SLEEP timer setting can also be canceled by putting this unit into the standby mode with the **STANDBY/ON** switch on the front panel (or the **POWER**  $\phi$  **I** key on the remote control transmitter) or disconnecting the power plug of this unit from the AC outlet.

# TROUBLESHOOTING

If the unit fails to operate normally, check the following points to determine whether the fault can be corrected by the simple measures suggested. If it cannot be corrected, or if the fault is not listed in the SYMPTOM column, disconnect the power cord and contact your authorized YAMAHA dealer or service center for help.

	SYMPTOM	CAUSE	REMEDY
Amplifier	The unit fails to turn on when the <b>STANDBY/ON</b> switch is pressed, or turns into the standby mode suddenly soon after the power is turned on.	Power cord is not plugged in or is not completely inserted.	Firmly plug in the power cord.
		The <b>IMPEDANCE SELECTOR</b> switch on the rear panel is not set to the right or the left end firmly.	Set the switch to the right or the left end firmly.
	It happens that this unit does not work normally.	There is an influence of strong external noise (lightning, excessive static electricity, etc.) or a misoperation on this unit while using this unit.	Turn this unit into the standby mode and disconnect the AC power cord from the AC outlet. After about 30 seconds, connect the power and operate this unit again.
	No sound or no picture.	Incorrect output cord connections.	Connect the cords properly. If the problem persists, the cords may be defective.
		Appropriate input source is not selected.	Select an appropriate input source with the input selector buttons.
		The <b>SPEAKERS</b> switches are not set properly.	Set the <b>SPEAKERS</b> switch which corresponds to the speakers to be used to the <b>ON</b> position.
		Speaker connections are not secure.	Secure the connections.
	The sound suddenly goes off.	The protection circuit has been activated because of short circuit etc.	Turn this unit into the standby mode, and then turn on to reset the protection circuit.
		The <b>SLEEP</b> timer has functioned.	Cancel the <b>SLEEP</b> timer function.
	Only one side speaker outputs the sound.	Incorrect setting of the <b>BALANCE</b> control.	Adjust it to the appropriate position.
		Incorrect cord connections.	Connect the cords properly. If the problem persists, the cords may be defective.
	Sound "hums".	Incorrect cord connections.	Firmly connect the audio plugs. If the problem persists, the cords may be defective.
		No connection from the turntable to the <b>GND</b> terminal.	Make the <b>GND</b> connection between the turntable and this unit.
	The volume level is low while playing a record.	The record is being played on a turntable with an <b>MC</b> cartridge.	The player should be connected to the unit through the <b>MC</b> head amplifier.
	The volume level cannot be increased, or sound is distorted.	The component connected to the <b>REC OUT</b> terminals of this unit is turned off.	Turn the power to the component on.
No sound from the rear speakers.	The sound output level to the rear speakers is set to minimum.	Raise the sound output level to the rear speakers.	
No sound from the center speaker.	The monaural sound source is played in <b>DOLBY PRO LOGIC</b> or <b>DOLBY PRO LOGIC ENHANCED</b> mode.	Select another program suitable for the monaural sound source.	
	The sound output level to the center speaker is set to minimum.	Raise the sound output level to the center speaker.	
	The center channel mode is in <b>PHANTOM</b> mode.	Select <b>NORMAL</b> or <b>WIDE</b> .	
FM	FM stereo reception is noisy.	Because of the characteristics of FM stereo broadcasts, this is limited to cases where the transmitter is too far away or the antenna input is poor.	Check the antenna connections. Try using a high quality directional FM antenna. Set the <b>TUNING MODE</b> button to the manual tuning mode.
		There is multipath interference.	Adjust antenna placement to eliminate multipath interference.
	A desired station cannot be tuned in with the automatic tuning method.	The station is too weak.	Use the manual tuning method. Use a high quality directional FM antenna.
	Previously preset stations can no longer be tuned in.	This unit has been unplugged for a long period.	Repeat the presetting procedure.
AM	A desired station cannot be tuned in with the automatic tuning method.	Weak signal or loose antenna connections.	Tighten the AM loop antenna connections and rotate it for best reception. Use the manual tuning method.
	There are continuous crackling and hissing noises.	Noises will result from lightning, fluorescent lamps, motors, thermostats and other electrical equipment.	Use an outdoor antenna and a ground wire. This will help somewhat but it is difficult to eliminate all noise.
	There are buzzing and whining noises (especially in the evening).	A television set is being used nearby.	Relocate this unit away from the TV.
Remote control transmitter	The remote control transmitter does not work.	Direct sunlight or lighting (of an inverter type of fluorescent lamp etc.) is striking the remote control sensor of the main unit.	Change the position of the main unit.
		The batteries of this remote control transmitter are too weak.	Replace the batteries with new ones.
Others	The sound is degraded when listening with the headphones connected to the compact disc player or cassette deck that are connected with this unit.	This unit is in the standby mode.	Turn the power to this unit on.



# SPECIFICATIONS

## AUDIO SECTION

Minimum RMS Output Power per Channel (Power Amp. Section)  
(When both channels are driven)

Main L, R	8 ohms, 20 Hz to 20 kHz, 0.04% THD	60 W + 60 W
Center	8 ohms, 20 Hz to 20 kHz, 0.04% THD	60 W
Rear L, R	8 ohms, 20 Hz to 20 kHz, 0.04% THD	60 W + 60 W

Minimum RMS Output Power per Channel (Power Amp. Section)  
(When both channels are driven)

Main L, R	8 ohms, 1 kHz, 0.07% THD	70 W + 70 W
Center	8 ohms, 1 kHz, 0.07% THD	70 W
Rear L, R	8 ohms, 1 kHz, 0.07% THD	70 W + 70 W

Maximum Power (EIAJ) [China and General models only]  
(When both channels are driven)

Main L, R	8 ohms, 1 kHz, 10% THD	95 W + 95 W
Center	8 ohms, 1 kHz, 10% THD	95 W
Rear L, R	8 ohms, 1 kHz, 10% THD	95 W + 95 W

Dynamic Power per Channel  
(by IHF Dynamic Headroom measuring method)

Main L, R	8 ohms	80 W + 80 W
	6 ohms	100 W + 100 W
	4 ohms	120 W + 120 W
	2 ohms	145 W + 145 W

DIN Standard Output Power per Channel [Europe model only]

Main L, R	4 ohms, 1 kHz, 0.7% THD	100 W + 100 W
Center	4 ohms, 1 kHz, 0.7% THD	100 W
Rear L, R	4 ohms, 1 kHz, 0.7% THD	100 W + 100 W

Dynamic Headroom [U.S.A. and Canada models only]

8 ohms	1.55 dB
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IEC Power [Europe model only]

Main L, R	8 ohms, 1 kHz, 0.04% THD	65 W + 65 W
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Power Band Width

Main L, R	8 ohms, 30 W, 0.1% THD	10 Hz to 50 kHz
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Damping Factor (SPEAKERS A)

Main L, R	8 ohms, 20 Hz to 20 kHz	60 or more
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Input Sensitivity/Impedance

PHONO (MM)	2.5 mV/47 k-ohms
CD/TAPE-MD/DVD-LD/TV-DBS/VCR	150 mV/47 k-ohms
6CH DISCRETE INPUT (EXTERNAL DECODER)	
MAIN L/R	150 mV/47 k-ohms
CENTER	150 mV/40 k-ohms
REAR L/R	150 mV/40 k-ohms
SUBWOOFER	150 mV/40 k-ohms

Maximum Input Signal

PHONO (MM)	
1 kHz, 0.1% THD	100 mV or more
CD/TAPE-MD/DVD-LD/TV-DBS/VCR (EFFECT ON)	
1 kHz, 0.5% THD	2.2 V or more

Output Level/Impedance

REC OUT	150 mV/2.7 k-ohms
SUBWOOFER (EFFECT OFF)	5 V/1.2 k-ohms

Headphone Jack Rated Output Level/Impedance

(1 kHz, 8 ohms, 150 mV)	0.43 V/ 330 ohms
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Frequency Response (20 Hz to 20 kHz)

CD/TAPE-MD/DVD-LD/TV-DBS/VCR	0 ± 0.5 dB
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RIAA Equalization Deviation

PHONO (MM)	0 ± 0.5 dB
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Total Harmonic Distortion (20 Hz to 20 kHz)

PHONO (MM) to REC OUT	
1 V	0.02% or less
CD/TAPE-MD/DVD-LD/TV-DBS/VCR (EFFECT OFF) to SP OUT	
30 W/8 ohms	0.025% or less

Signal-to-Noise Ratio (IHF-A Network)

PHONO (MM) to REC OUT (5 mV Input Shorted)	
[U.S.A., Canada, China, and General models]	86 dB or more
[Australia, U.K., and Europe models]	81 dB or more
CD/TAPE-MD/DVD-LD/TV-DBS/VCR to MAIN SP OUT	
(150 mV Input Shorted, EFFECT OFF)	96 dB or more

Residual Noise (IHF-A Network)

MAIN L/R to SP OUT	150 µV or less
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Channel Separation (Vol. -30 dB, EFFECT OFF)

PHONO	
(Input Shorted, 1 kHz/10 kHz)	60 dB or more/55 dB or more
CD/TAPE-MD/DVD-LD/TV-DBS/VCR	
(Input 5.1 k-ohms shorted, 1 kHz/10 kHz)	60 dB or more/45 dB or more

Tone Control Characteristics

BASS: Boost/cut	±10 dB, 50 Hz
Turnover Frequency	350 Hz
TREBLE: Boost/cut	±10 dB, 20 kHz
Turnover Frequency	3.5 kHz

Filter Characteristics

Subwoofer (L.P.F.)	fc = 150 kHz, 6 dB/oct.
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