

# KENWOOD

AUDIO VIDEO SURROUND RECEIVER

# KRF-V5080D

ENGLISH

FRANÇAIS

DEUTSCH

NEDERLANDS

ITALIANO

ESPAÑOL

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## INSTRUCTION MANUAL

KENWOOD CORPORATION

### ***About the supplied remote control***

Compared to standard remote controls, the remote control supplied with this receiver has several operation modes. These modes enable the remote control to control other audio/video components. In order to effectively use the remote control it is important to read the operating instructions and obtain a proper understanding of the remote control and how to switch its operation modes (etc.). Using the remote control without completely understanding its design and how to switch the operation modes may result in incorrect operations.

# Before applying the power

**⚠ Caution : Read this page carefully to ensure safe operation.**

Units are designed for operation as follows.

- U.S.A. and Canada** ..... AC 120 V only
- Australia** ..... AC 240 V only
- Europe and U.K.** ..... AC 230 V only
- China and Russia** ..... AC 220 V only
- Other countries** ..... AC 110-120 / 220-240 V switchable\*

## Maintenance of the unit

When the front panel or case becomes dirty, wipe with a soft, dry cloth. Do not use thinner, benzene, alcohol, etc. for these agents may cause discoloration.

## In regard to contact cleaner

Do not use contact cleaner because it could cause a malfunction. Be specially careful not to use contact cleaners containing oil, for they may deform the plastic component.

## Safety precautions

### WARNING :

TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



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



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

## How to use this manual

This manual is divided into four sections, Preparations, Operations, Remote Control, and Additional Information.

### Preparations

Shows you how to connect your audio and video components to the receiver and prepare the surround processor. Since this receiver works with all of your audio and video components, we will guide you in setting up your system to be as easy as possible.

### Operations

Shows you how to operate the various functions available on the receiver.

### Remote Control

Shows you how to operate other components using the remote control, as well as a detailed explanation of all remote control operations. Once you have setup the remote control, you'll be able to operate both this receiver and your KENWOOD DVD player using the remote control supplied with this receiver.

### Additional Information

Shows you additional information such as "In case of difficulty" (troubleshooting) and "Specifications".

## Unpacking

Unpack the unit carefully and make sure that all accessories are present.

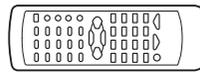
FM indoor antenna (1)



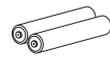
AM loop antenna (1)



Remote control unit (1)  
RC-R0627



Batteries (R6/AA) (2)



If any accessories are missing, or if the unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify your shipper immediately. Kenwood recommend that you retain the original carton and packing materials in case you needs to move or ship the unit in the future.

**Keep this manual handy for future reference.**

## Memory back up function

Please note that the following items will be deleted from the unit's memory if the power cord is disconnected from the AC outlet for approximately 1 day.

- Power mode
- Input selector settings
- Picture output
- Speaker ON/OFF
- Volume level
- BASS, TREBLE, INPUT level
- TONE ON/OFF
- LOUDNESS ON/OFF
- Dimmer level
- MD/TAPE settings
- Listen mode setting
- SP SYSTEM
- Speaker settings
- Distance setting
- SUBWOOFER ON/OFF
- SW RE-MIX ON/OFF
- Input mode setting
- Midnight mode setting
- Broadcast band
- Frequency setting
- Preset stations
- Tuning mode
- ACTIVE EQ mode
- PRO LOGIC II mode
- DSP mode
- Left channel level
- Right channel level
- Center channel level
- Surround channel level
- Surround Back channel level
- Subwoofer level
- PANORAMA ON / OFF
- DIMENSION
- CENTER WIDTH
- LFE level

## Contents

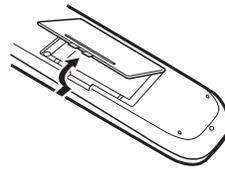
**Caution :** Read the pages marked  carefully to ensure safe operation.

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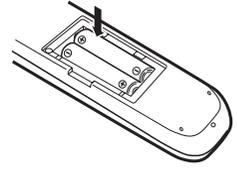
## Preparing the remote control

### Loading the batteries

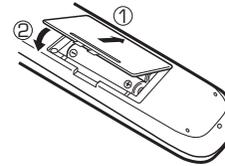
① Remove the cover.



② Insert the batteries.



③ Close the cover.

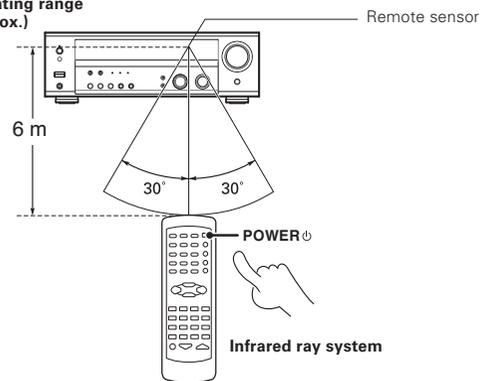


- Insert two AA-size (R6) batteries as indicated by the polarity markings.

### Operation

When the **STANDBY** indicator is lit, the power turns ON when you press the **POWER**  key on the remote control. When the power comes ON, press the key you want to operate.

#### Operating range (Approx.)



- When pressing more than one remote control key successively, press the keys securely by leaving an interval of 1 second or more between keys.

#### Notes

1. The supplied batteries may have shorter lives than ordinary batteries due to use during operation checks.
2. When the remote-controllable distance gets shorter than before, replace both batteries with new ones.
3. Placing the remote sensor in direct sunlight, or in direct light from a high frequency fluorescent lamp may cause a malfunction. In such a case, change the location of the system installation to prevent malfunction.

### Preparations

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### Additional Information

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## Special features

### True home theater sound

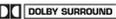
This receiver incorporates a wide variety of surround modes to bring you maximum enjoyment from your video software. Select a surround mode according to your equipment or the software you are going to play and enjoy!

— 23

### Dolby Digital and Dolby Digital EX

The DOLBY DIGITAL mode lets you enjoy full digital surround from software processed in the Dolby Digital format. Dolby Digital provides up to 5.1 channels of independent digital audio for better sound quality and more powerful presence than conventional Dolby Surround. As for Dolby Digital EX, it creates six full-bandwidth output channels from the 5.1 channel sources. This is done using a matrix decoder that derives three surround channels from the two in the original recording. For best result, Dolby Digital EX should be used with movie soundtracks recorded with Dolby Digital Surround EX.

### Dolby PRO LOGIC IIx and Dolby PRO LOGIC II

DOLBY PRO LOGIC II, whilst totally compatible with its predecessor PRO LOGIC, provides greater advantages in surround sound. It allows user to enjoy the conventional stereo or Dolby Surround with a convincing "5.1 like" presentation. PRO LOGIC II offers special features for controlling the overall spatial, dimensionality and frontal sound field imaging. PRO LOGIC II produces an impressive surround sound from video software marked  and three-dimensional space from music CD. When listening to music, you will be able to enjoy the experience of sheer STEREO surround sound.

DOLBY PRO LOGIC IIx enhanced DOLBY PRO LOGIC II's features. It creates 6.1 channel and 7.1 channel surround sound from stereo or 5.1 channel signals. This feature provides you an astonishing ambience effect which makes you feel you are surrounded by natural sound. Especially 7.1 channel surround sound can produce real back sound from Surround Back speakers.

### DTS and DTS-ES

DTS (Digital Theater System) is a 5.1 channel digital audio format that provides five full-spectrum channels and one low-frequency (subwoofer) channel for unprecedented clarity, optimum channel separation and a (wide) dynamic range.

DTS-ES (Extended Surround) presents 6.1 channels surround system with additional Surround back channel which evolved from the conventional 5.1 channels surround system. DTS-ES format that was recorded in DVD, CD or LD comprises of two modes. DTS-ES Discrete 6.1 produces the discrete surround back which is completely independent and DTS-ES Matrix 6.1 produces the surround back which synthesized within the left and right surround channels using matrix technology. DTS-ES has perfect compatibility with the conventional 5.1 channels surround system. 6.1 channels surround with an additional surround back presents a more natural presence and surround effects by increasing the impression of the sound image from back.

important:

When a DTS disc is played on a CD, LD or DVD player, noise may be output from the analog output. It is recommended that you connect the digital output of the player to the digital input of this unit.

### Neo:6

Neo:6 is a new technology which was developed by DTS. It can produce high grade 6 channels surround with an astonishing fidelity from 2 channels content. Neo:6 has 2 modes, "CINEMA" mode is for movie playback and "MUSIC" mode is for music playback.

### DSP surround modes

The DSP (Digital Signal Processor) used for this receiver incorporates a variety of high quality adjustable sound fields, like "ARENA", "JAZZ CLUB", "THEATER", "STADIUM" and "DISCO". It is compatible with almost any kind of program source.

### DVD 6-channel input

If you own a DVD player equipped with 6-channel output, this receiver allows you to obtain the full surround sound impact of DVD source material featuring multi-channel encoding. Since the source signals are digital and each channel is input independently, the resulting ambience is far superior to what can be achieved with conventional surround sound systems.

### ACTIVE EQ

ACTIVE EQ mode will produce a more dynamic sound quality in any condition. You can enjoy a more impressive sound effect when ACTIVE EQ is turned on.

### IR (InfraRed) remote control

In addition to the basic receiver operations, this IR remote control supplied can also control Kenwood DVD players directly without using the DVD Special features

### RDS (Radio Data System) tuner

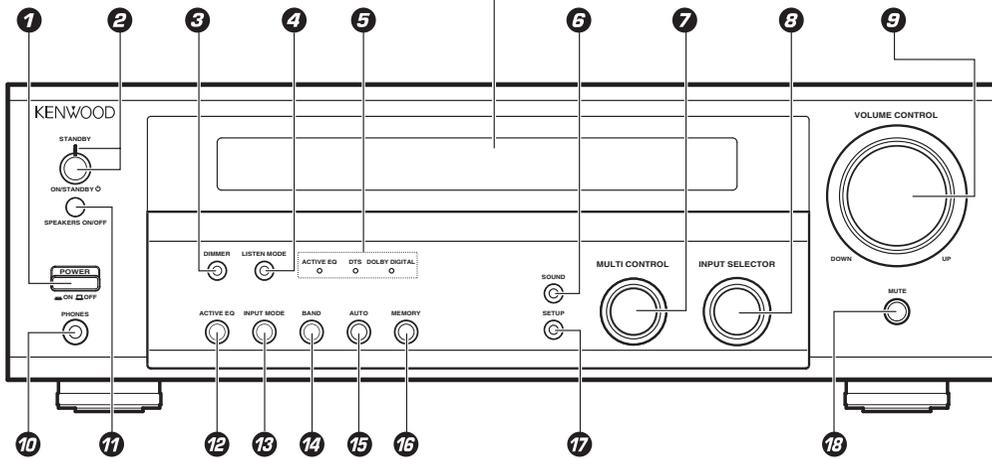
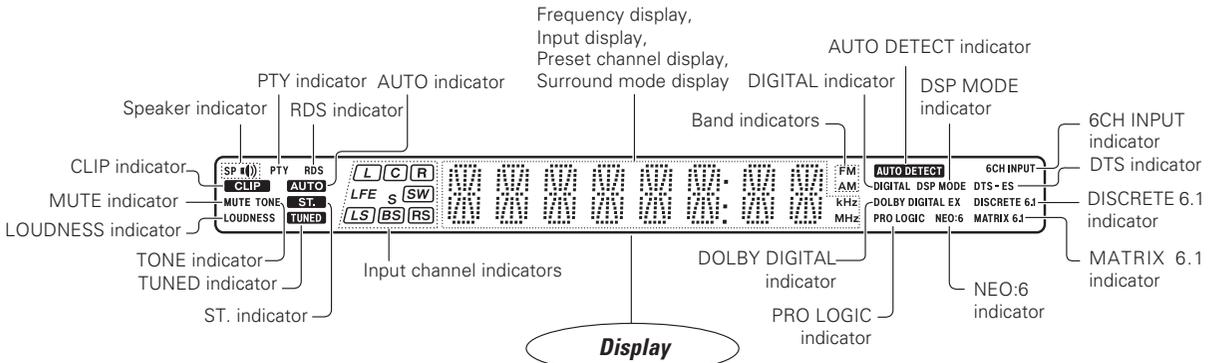
The receiver is equipped with an RDS tuner that provides several convenient tuning functions: RDS Auto Memory, to automatically preset up to 40 RDS stations broadcasting different programs; station name display, to show you the name of the current broadcast station; and PTY search to let you tune stations by program type.

### PTY (Program Type) search

Tune the stations by specifying the type of program you want to hear.

# Names and functions of parts

## Main Unit



- 1 POWER ON/OFF key** - [14]  
Use to turn the main power ON/OFF.
- 2 ON/STANDBY  $\updownarrow$  key** - [14]  
Use to switch the power ON/STANDBY when the POWER is turned ON.  
**STANDBY indicator**
- 3 DIMMER key** - [19]  
Use to select the REC MODE.  
Use to adjust the brightness of the display. - [27]
- 4 LISTEN MODE key** - [25]  
Use to select the listening mode.
- 5 Surround LED (light-emitting diode) indicators**  
**ACTIVE EQ mode LED indicator** - [18]  
Lights when the receiver is in the ACTIVE EQ mode.  
**DTS mode LED indicator** - [25]  
Lights when the receiver is in the DTS mode.

- DOLBY DIGITAL EX mode LED indicator** - [25]  
Lights when the receiver is in the Dolby Digital EX mode.
- 6 SOUND key** - [27]  
Use to adjust the sound quality and the ambience effects.
- 7 MULTI CONTROL knob** - [14]  
Use to control a variety of settings.
- 8 INPUT SELECTOR knob** - [17]  
Use to select the input sources.
- 9 VOLUME CONTROL knob** - [17]
- 10 PHONES jack** - [18]  
Use for headphone listening.
- 11 SPEAKERS ON/OFF key** - [17]  
Use to turn the speakers ON/OFF.
- 12 ACTIVE EQ key** - [18]  
Use to select ACTIVE EQ setting.
- 13 INPUT MODE key** - [7]  
Use to switch between full auto, digital and analog inputs.

- 14 BAND key** - [20]  
Use to select the broadcast band.
- 15 AUTO key** - [17]  
Use to change "TAPE" indication to "MD".  
Use to select the auto tuning mode. - [20]
- 16 MEMORY key** - [22]  
Use to store radio stations in the preset memory.
- 17 SETUP key** - [14]  
Use to select the speakers' settings etc.
- 18 MUTE key** - [18]  
Use to temporarily mute the sound.

### Standby mode

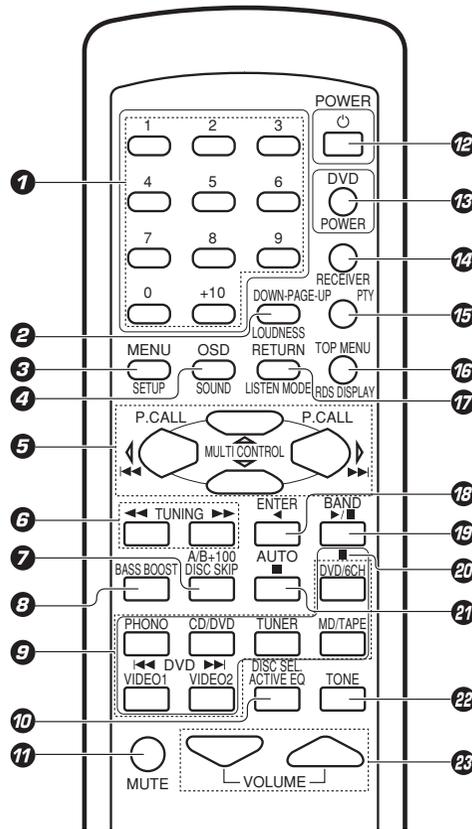
While the standby indicator is lit, a small amount of power is supplied to the system to back-up the memory. This is called standby mode. Under the condition, the system can be turned ON by the remote control unit.

### CAUTION

The power in this equipment will not be completely cut off from the AC wall outlet when the main switch is turned OFF.

Remote control unit (RC-R0627)

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If the name of a function is different on the receiver and on the remote control, the name of the remote control key in this manual is indicated in parentheses.

- 1 Numeric keys** - [21]  
If CD or MD is selected as the input source, these keys function as numeric keys. If tuner is selected as the input source, these keys are used to call up station presets.
- 2 DOWN-PAGE- key**  
Use to operate the DVD component.
- LOUDNESS key** - [18]  
Use to switch the status of LOUDNESS.
- 3 MENU key**  
Use to operate the DVD component.
- SETUP key** - [14]  
Use to select the speakers' settings etc.
- 4 OSD (On Screen Display) key**  
Use to operate the DVD component.
- SOUND key** - [27]  
Use to adjust the sound quality and ambience effects.
- 5 MULTI CONTROL  $\Delta/\nabla$  keys** - [14]  
Use to control a variety of settings.
- P.CALL  $\leftarrow/\rightarrow$  keys** - [21]  
If tuner is selected as the input source, these keys function as preset channel call keys.
- $\leftarrow/\rightarrow$  keys**  
If CD or MD is selected as the input source, these keys function as skip keys.
- 6 TUNING  $\leftarrow/\rightarrow$  keys** - [20]  
Use to operate the tuner or selected component.
- If CD, MD or TAPE is selected as the input source, these keys function as search keys.

- 7 A/B key**  
If TAPE is selected as the input source, this is A and B deck of a double cassette deck.
- +100 key**  
Use to select the disc number with the multi-CD player.
- DISC SKIP key**  
If CD is selected as the input source, this key functions as the multi-CD player disc skip key.
- 8 BASS BOOST key** - [18]  
Use to select the maximum adjustment setting for the low frequency range.
- 9 Input Selector keys (DVD/6CH, PHONO, CD/DVD, TUNER, MD/TAPE, VIDEO 1, VIDEO 2)** - [17]  
Use to select the input sources.
- $\leftarrow$  DVD  $\rightarrow$  keys**  
When in DVD player operations, these keys function as skip keys.
- 10 DISC SEL. key**  
Use to operate other components.
- ACTIVE EQ key** - [18]  
Use to select ACTIVE EQ setting.
- 11 MUTE key** - [18]  
Use to temporarily mute the sound.
- 12 POWER  $\square$  key** - [14]  
Use to turn the receiver on and off.
- 13 DVD POWER key**  
Use to turn on the DVD equipment.
- 14 RECEIVER key**  
Use to return to the operation of the receiver.
- 15 -PAGE-UP key**  
Use to operate the DVD component.
- PTY key** - [22]  
Use for PTY search.

- 16 TOP MENU key**  
Use to operate the DVD component.
- RDS DISPLAY key** - [21]  
Use for RDS function.
- 17 RETURN key**  
Use to operate the DVD component.
- LISTEN MODE key** - [25]  
Use to select the listening mode.
- 18 ENTER key**  
Use to operate other components.
- $\blacktriangleleft$  key**  
Use to operate other components.
- 19 BAND key** - [20]  
Use to select the broadcast band.
- $\blacktriangleright$ /II key**  
If CD is selected as the input source, this key functions as the play/pause key.
- If MD or TAPE is selected as the input source, this key functions as the play key.
- 20 II key**  
Use to operate other components.
- 21 AUTO key** - [17]  
Use to change "TAPE" indication to "MD"
- $\blacksquare$  key** - [20]  
Use to select the auto tuning mode.
- 22 TONE key** - [18]  
Use to switch the status of TONE control.
- 23 VOLUME keys** - [17]  
Use to adjust the receiver volume.

# Setting up the system

Make connections as shown in the following pages. When connecting the related system components, be sure to refer to the instruction manuals supplied with the components you are connecting. Do not connect the power cord to a wall outlet until all connections are completed.

## Notes

1. Be sure to insert all connection cords securely. If their connections are imperfect, the sound may not be produced or there will be noise interference.
2. Be sure to remove the power cord from the AC outlet before plugging or unplugging any connection cords. Plugging/unplugging connection cords without disconnecting the power cord can cause malfunctions and may damage the unit.
3. Do not connect power cords from components whose power consumption is larger than what is indicated on the AC outlet at the rear of this unit.

## Analog connections

Audio connections are made using RCA pin cords. These cables transfer stereo audio signal in an "analog" form. This means the audio signal corresponds to the actual audio of two channels. These cables usually have 2 plugs at each end, red for the right channel and white for the left channel. These cables are usually packed together with the source unit, or are available at your local electronics retailer.

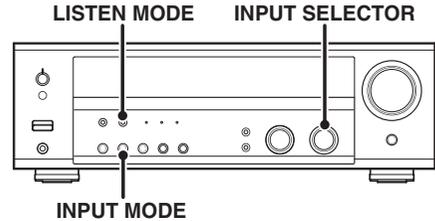
## Microcomputer malfunction

If operation is not possible or an erroneous display appears, even though all connections have been made properly, reset the microcomputer by referring to "In case of difficulty". - [30]

## Input mode settings

CD/DVD, VIDEO2 and DVD/6CH inputs each include jacks for digital audio input and analog audio input.

After completing connections and turning on the receiver, follow the steps below.



- 1 Use the **INPUT SELECTOR** knob to select **CD/DVD, VIDEO2, DVD/6CH**.

- 2 Press the **INPUT MODE** key.

Each press switches the setting as follows:

### In DTS play mode

- 1 **F-AUTO** (digital input, analog input)
- 2 **D-MANUAL** (digital input)

### In CD/DVD, VIDEO2, DVD/6CH play mode

- 1 **F-AUTO** (digital input, analog input)
- 2 **D-MANUAL** (digital input)
- 3 **6CH INPT** (DVD/6CH input)
- 4 **ANALOG** (analog input)

### Digital input:

Select this setting to play digital signals from a DVD, CD, or LD player.

### Analog input:

Select this setting to play analog signals from a cassette deck, VCR, or record player.

### Auto detect:

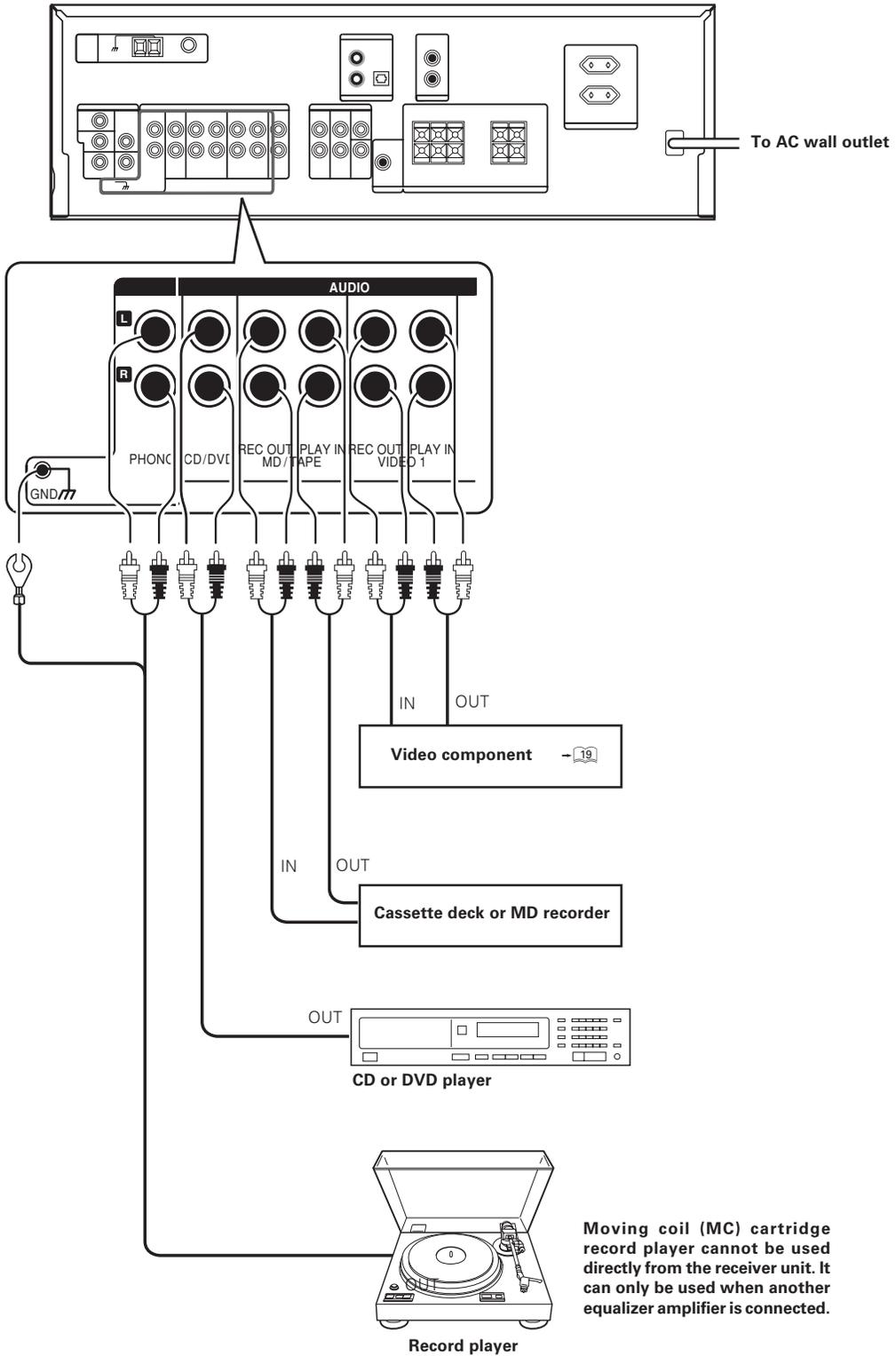
In "F-AUTO" (full auto) mode (**AUTO DETECT** and **DIGITAL** indicators light up), the receiver detects the digital or analog input signals automatically. Priority is given to digital signal during input mode selection. The receiver will select the input mode and listening mode automatically during playback to match the type of input signal (Dolby Digital, PCM, DTS) and the speaker setting. The initial factory setting is full auto.

To keep the receiver set to the currently selected listening mode, use the **INPUT MODE** key to select "D-MANUAL" (digital manual). However, even when this setting is selected, there may be cases in which the listening mode is selected automatically to match a Dolby Digital source signal depending on the combination of listening mode and source digital.

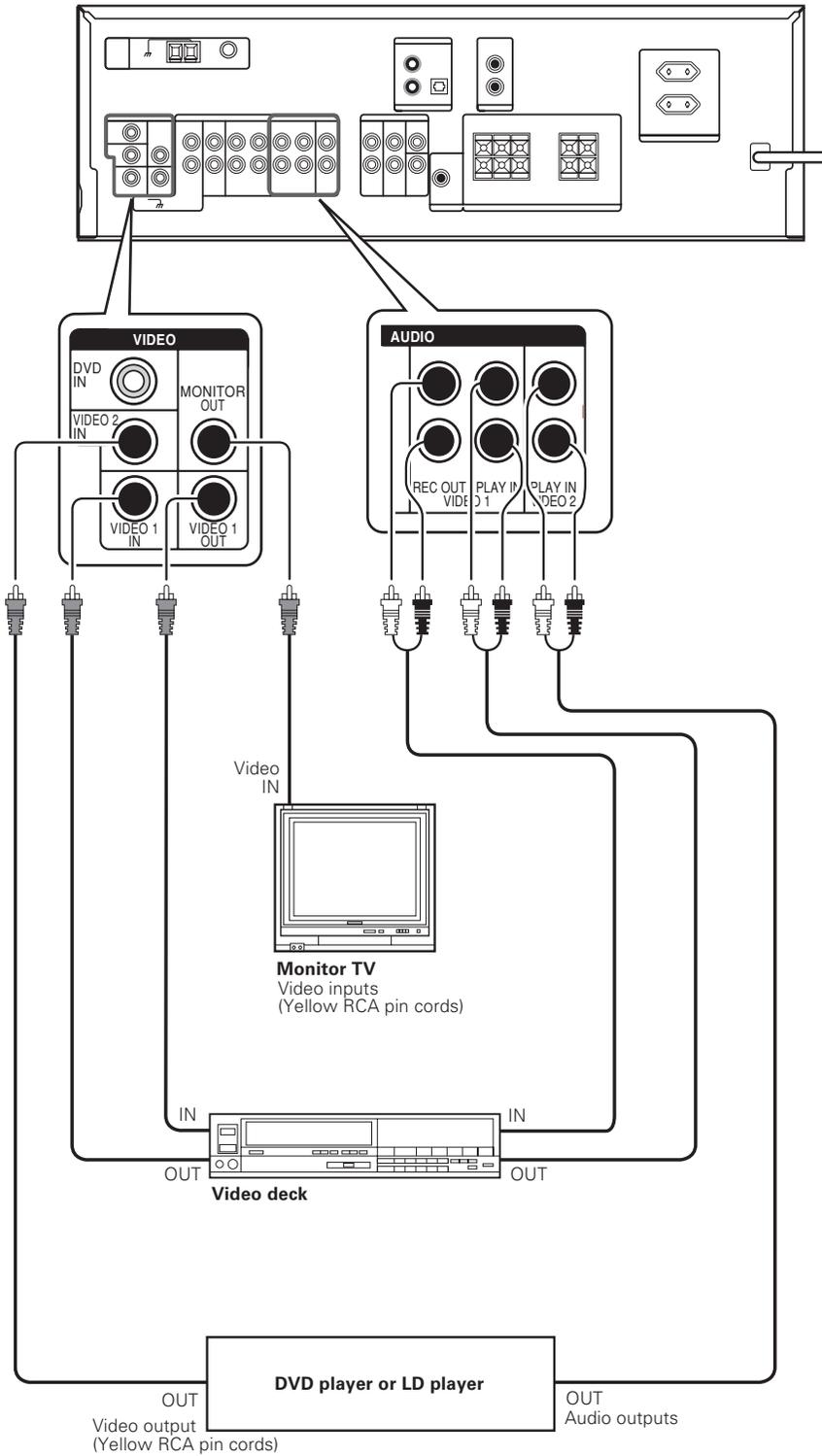
In **D-MANUAL** mode, if the audio reproduction stops in the middle due to change in the input signals etc, press the **LISTEN MODE** key. If the **INPUT MODE** key is pressed quickly, sound may not be produced. Press the **INPUT MODE** key again.

## Connecting audio components

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## Connecting video components



A video component with digital audio outputs should be connected to the VIDEO 2 jacks.

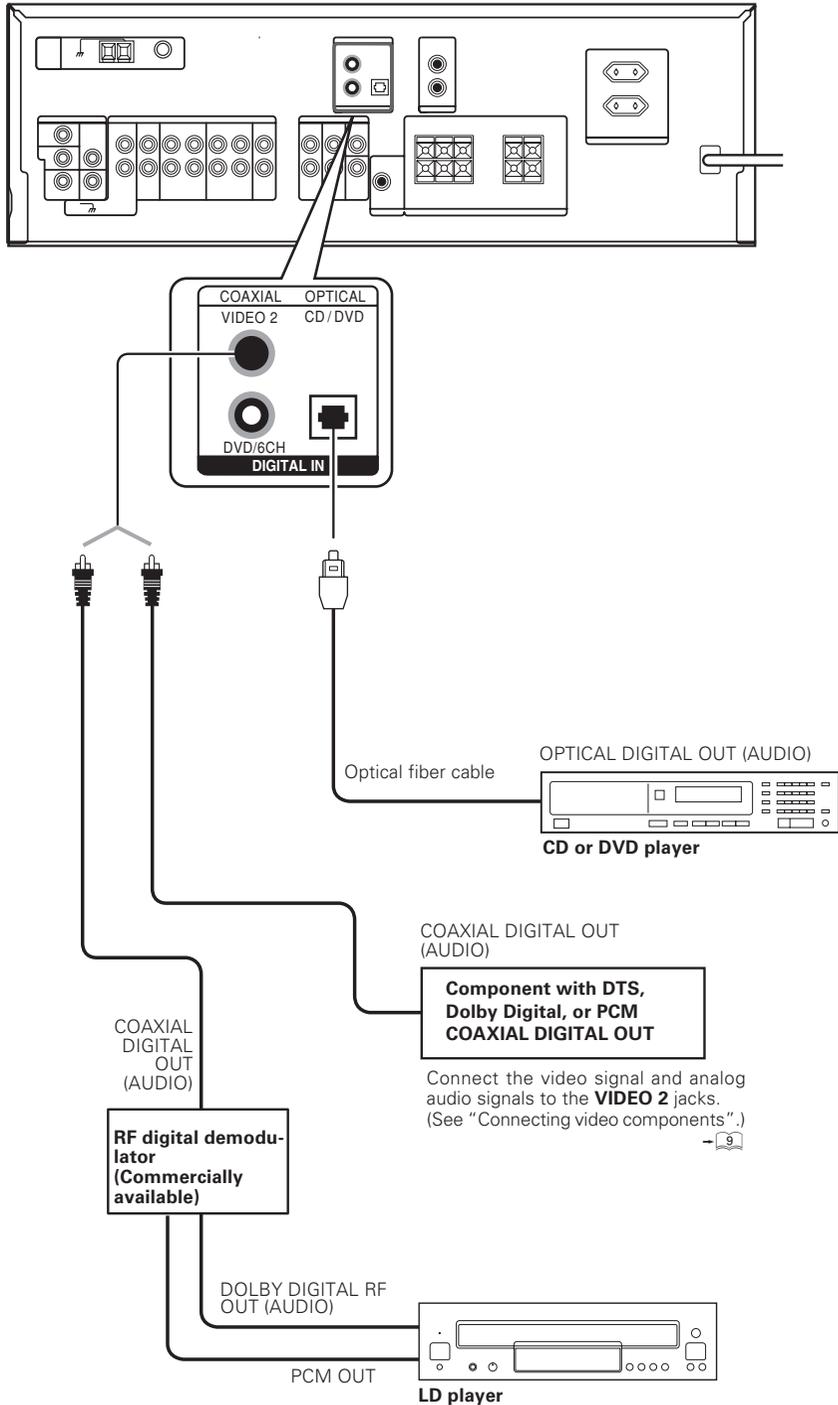
## Digital connections

The digital in jacks can accept DTS, Dolby Digital, or PCM signals. Connect components capable of outputting DTS, Dolby Digital, or standard PCM (CD) format digital signals.

If you have connected any digital components to the receiver, be sure to read the "Input mode settings" section carefully.



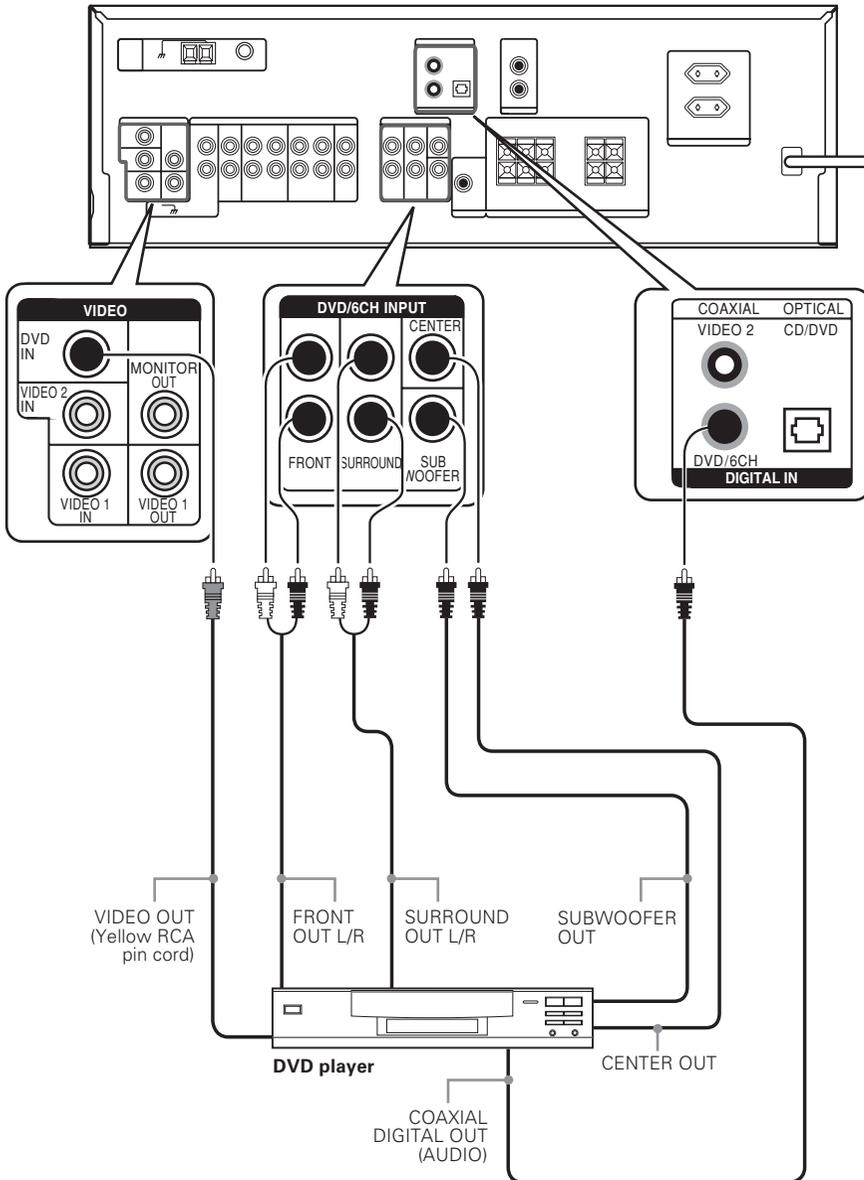
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To connect an LD player with a DIGITAL RF OUT, connect the LD player to the RF digital demodulator (Commercially available). Next, connect the DIGITAL OUT jacks of the demodulator to the DIGITAL IN jacks of the receiver. Connect the video signal and analog audio signals to the VIDEO 2 jacks. (See "Connecting video components".)

## Connecting a DVD player (6-channel input)

If you have connected a DVD player to the receiver with digital connection, be sure to read the "Input mode settings" section carefully.



### CAUTION

Be sure to adhere to the following, or proper ventilation will be blocked causing damage or fire hazard.

- Do not place any object impairing heat radiation onto the top of the unit.
- Leave a space around the unit (from the largest outside dimension including projection) equal or greater than, shown below.

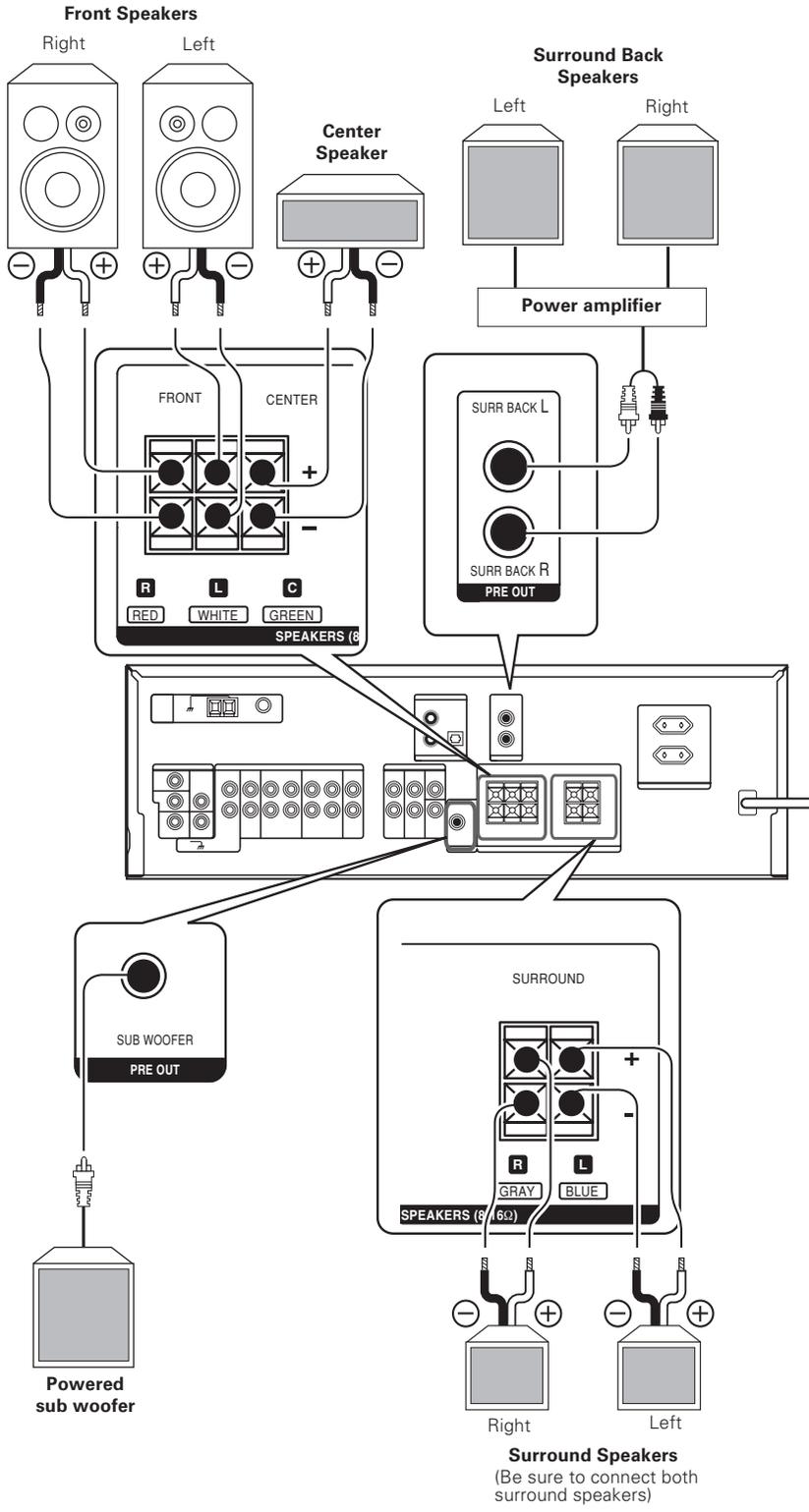
Top panel : 50 cm

Side panel : 10 cm

Back panel : 10 cm

Connecting the speakers

ENGLISH



To make sure that each speaker has been connected properly, pay attention to the test tone from each speaker. Refer to "Adjust the speaker volume level".

## Connecting the terminals

**1 Strip coating.**



**2 Push the lever.**



**3 Insert the cord.**



**4 Return the lever.**

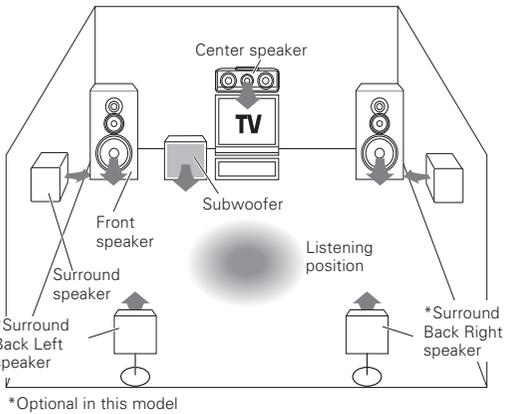


- Never short circuit the + and – speaker cords.
- If the left and right speakers are connected inversely or the speaker cords are connected with reversed polarity, the sound will be unnatural with ambiguous acoustic imaging. Be sure to connect the speakers correctly.

### Speaker impedance

After confirming the speaker impedance indications printed on the rear panel of the receiver, connect speakers with matching impedance ratings. Using speakers with a rated impedance other than that indicated on the rear panel of the receiver could result in malfunctions or damage to the speakers or receiver.

### Speaker placement



**Front speakers :** Place to the front left and right of the listening position. Front speakers are required for all surround modes.

**Center speaker :** Place front and center. This speaker stabilizes the sound image and helps recreate sound motion. Required for surround playback.

**Surround speakers :** Place to the direct left and right, or slightly behind, the listening position at even heights, approximately 1 meter above the ears of the listeners. These speakers recreate sound motion and atmosphere. Required for surround playback.

**Subwoofer :** Reproduces powerful deep bass sounds.

**Surround Back speakers :** Place the speakers directly at the rear of the listening position. The optimum position depends mainly on the room condition.

- Although the ideal surround system consists of all the speakers listed above, if you don't have a center speaker or a subwoofer, you can divide those signals between the available speakers in the speaker settings steps to obtain the best possible surround reproduction from the speakers you have available.

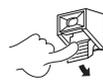
## Connecting the antennas

### AM loop antenna

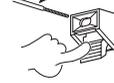
The supplied loop antenna is for use indoors. Place it as far as possible from the receiver, TV set, speaker cords and power cord, and adjust the direction for best reception.

#### AM antenna terminal connections

**1 Push lever.**



**2 Insert cord.**



**3 Release lever.**



### FM indoor antenna

The supplied indoor antenna is for temporary use only. For stable signal reception we recommend using an outdoor antenna. Disconnect the indoor antenna when you connect one outdoors.

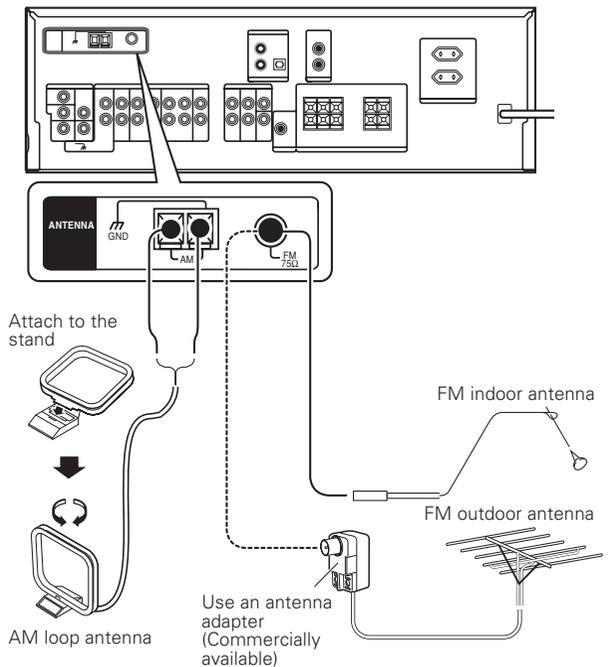
#### FM antenna terminal connections

**Insert cord.**



### FM outdoor antenna

Lead the 75Ω coaxial cable connected to the FM outdoor antenna into the room and connect it to the **FM 75Ω** terminal.

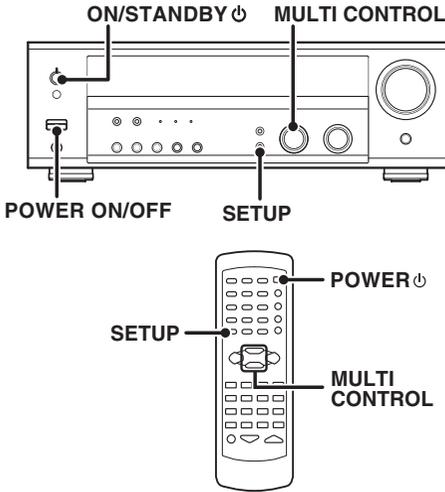


# Preparing for surround sound

## Speaker settings

To enable you to obtain optimum enjoyment from the receiver's listening modes, make sure to complete the speaker settings (Subwoofer, Front, Center, Surround and Surround Back speakers) as described below.

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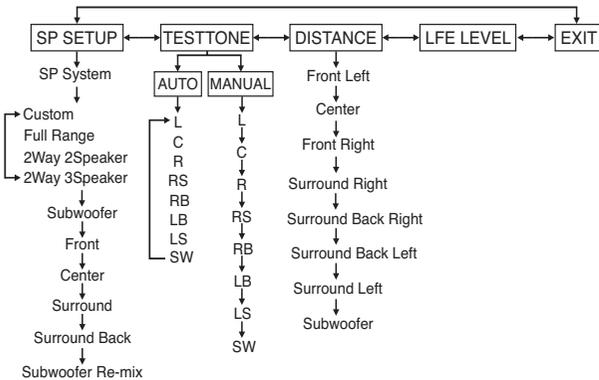


**1** Turn on the power to this receiver by pressing **POWER ON/OFF** and **ON/STANDBY** or **POWER** key.

**2** Press the **SETUP** key to enter the **SETUP** mode and use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys for the following displays.

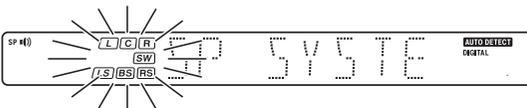
- 1 SP SETUP
- 2 TESTTONE
- 3 DISTANCE
- 4 LFE LVL
- 5 EXIT

The flow of the SETUP is as follows;



**4** Select a speaker system.

**1** Select **SP SETUP** and press the **SETUP** key again so that the speaker system indication "**SP SYSTEM**" scrolls across the display.



**2** Use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys to select the speaker system setting.

- 1 **CUSTOM** : For general speakers.
- 2 **FULL RANGE** : For selected KENWOOD speaker - for example, KS-207HT, KS-207EX, KS-208HT.
- 3 **2WAY 2SPKR** : For selected KENWOOD speaker - for example, KS-307HT, KS-308HT, KS-308EX.
- 4 **2WAY 3SPKR** : For selected KENWOOD speaker - for example, KS-707EX.

- The selection of **2WAY 2SPKR** or **2WAY 3SPKR** should only be used with 6 channels speaker system setting.
- When the setting **2WAY 2SPKR** or **2WAY 3SPKR** is selected, the procedure skips to step **4**.

**3** For general speaker setting, use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys to select **CUSTOM** and press the **SETUP** key again.

- The subwoofer setting indication "**SUBW ON**" appears.



**4** Use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys to select the appropriate subwoofer setting.

- 1 **SUBW ON** : Subwoofer setting mode to the receiver is ON.
- 2 **SUBW OFF** : Subwoofer setting mode to the receiver is OFF.

- The initial setting is "**SUBW ON**".
- When the setting "**SUBW OFF**" is selected, the front speakers are automatically set to "**FRNT LRG**" and the procedure skips to step **2**.
- Before step **7**, press the **SETUP** key to accept the setting.
- When subwoofer output sound is required, select "**FRNT NML**".

**5** Press the **SETUP** key to accept the setting.

- The Front speakers setting indication "**FRNT LRG**" appears.



**6** Use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys to select the appropriate Front speakers setting.

- 1 **FRNT LRG** (large) : Large Front speakers are connected to the receiver.
- 2 **FRNT NML** (normal) : Average size Front speakers are connected to the receiver.

- For "**FRNT LRG**" selection, no sound will be heard from Subwoofer speaker even when it is set to ON. However, if you select "**SW RE-MIX ON**" when Subwoofer is selected, you will be able to hear sound from the Subwoofer.
- When in **STEREO** mode, the sound goes directly to Front speaker.

**7** Press the **SETUP** key to accept the setting.

- The Center speaker setting indication "**CNTR NML**" appears.

**8** Use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys to select the appropriate Center speaker setting.

If you have selected "**LRG**" as the Front speakers setting,

- 1 **CNTR NML** (normal) : An average size Center speaker is connected to the receiver.
- 2 **CNTR LRG** (large) : A large Center speaker is connected to the receiver.
- 3 **CNTR OFF** : Center speaker setting mode to the receiver is OFF.

If you have selected "**NML**" as the Front speakers setting,

- 1 **CNTR NML** (normal) : An average size Center speaker is connected to the receiver.
- 2 **CNTR OFF** : Center speaker setting mode to the receiver is OFF.

- 9 Press the **SETUP** key again to accept the setting.
  - The Surround speaker setting indication "SURR NML" appears.

- 10 Use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys to select the appropriate Surround speaker setting.

If you have selected "LRG" as the Center speaker setting,

- 1 SURR NML (normal) : Average size Surround speakers are connected to the receiver.
- 2 SURR LRG (large) : Large Surround speakers are connected to the receiver.
- 3 SURR OFF : Surround speaker setting mode to the receiver is OFF.

If you have selected other than "LRG" as the Center speaker setting,

- 1 SURR NML (normal) : Average size Surround speakers are connected to the receiver.
- 2 SURR OFF : Surround speaker setting mode to the receiver is OFF.

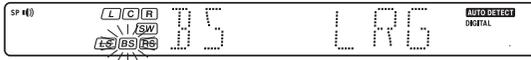
- When the setting "SURR OFF" is selected, the procedure skips to step 12.

- 11 Press the **SETUP** key to accept the setting.
  - The Surround Back speaker setting indication "BS" appears.

- 12 Use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys to select the appropriate Surround Back speaker setting.

If you have selected "LRG" as the Surround speaker setting,

- 1 BS NML (normal) : Average size Surround Back speaker is connected to the receiver.
- 2 BS LRG (large) : Large Surround Back speaker is connected to the receiver.
- 3 BS OFF : Surround Back speaker setting mode to the receiver is OFF.



If you have selected "NML" as the Surround speaker setting,

- 1 BS NML (normal) : Average size Surround Back speaker is connected to the receiver.
- 2 BS OFF : Surround Back speaker setting mode to the receiver is OFF.

- 13 Press the **SETUP** key again to accept the setting.
  - The Subwoofer re-mix setting indication "SW RE-MIX" scrolls across the display.



- If subwoofer is turned OFF, subwoofer re-mix setting is not visible.

- 14 Use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys to select the appropriate Subwoofer re-mix setting.

- 1 RMX ON : Subwoofer re-mix set mode to the receiver is ON.
- 2 RMX OFF : Subwoofer re-mix set mode to the receiver is OFF.

- 15 Press the **SETUP** key to accept the setting.

#### 4 Adjust the speaker volume level.

From your usual listening position, adjust the volume levels. The volume levels from each speaker should be the same.

- In step 4 and 5, indications appear only for the selected channels of the speakers that require adjusting.

- 1 Press the **SETUP** key to begin TEST TONE.
  - This receiver enters the speaker volume level adjustment mode.

The selection of AUTO/MANUAL TEST TONE is done by the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys.

- 1 AUTO
- 2 MANUAL

- 2 Press the **SETUP** key again to select either AUTO or MANUAL. Use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys to adjust the volume level of the test tone output from the speaker channel to be adjusted.

For AUTO selection, the test tone is heard from the speakers in the following sequence for 2 seconds each:



- If you change the volume level settings for the speakers while listening to music, the settings referred to on this page are also changed. - [26]
- If any of the speaker is set as OFF during SP SETUP, the TEST TONE adjustment for the speaker will be skipped.

- 3 Press the **SETUP** key.
  - The test tone is turned off. The receiver enters the mode for inputting the distance to the speakers.

- 4 For MANUAL selection, press the **SETUP** key each time to select the speaker channel.

#### 5 Input the distance to the speakers.

- 1 Select the **DISTANCE** from the set up displays and press the **SETUP** key again.

- 2 Measure the distance from the listening position to each of the speakers.

Get down the distance to each of the speakers.

Distance to Front Left speaker (L)	: ___ feet (meters)
Distance to Center speaker (C)	: ___ feet (meters)
Distance to Front Right speaker (R)	: ___ feet (meters)
Distance to Surround Right (RS)	: ___ feet (meters)
Distance to Surround Back Right (RB)	: ___ feet (meters)
Distance to Surround Back Left (LB)	: ___ feet (meters)
Distance to Surround Left (LS)	: ___ feet (meters)
Distance to Subwoofer (SW)	: ___ feet (meters)

- 3 Use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys to select the distance to the front speakers.



Indication in feet Indication in meters

- The allowable setting range is 1 to 30 feet (0.3m to 9.0m), adjustable in 1 foot (0.3m) increments.

- 4 Press the **SETUP** key to accept the settings.

- 5 Repeat steps 3 and 4 to input the distance for each of the speakers.

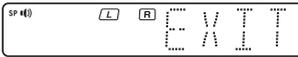
**5 Adjust the LFE (Low Frequency Effects) level**

- 1 Select the LFE LEVEL from the set up displays and press the SETUP key again.
- 2 Use the MULTI CONTROL Knob or MULTI CONTROL  $\Delta/\nabla$  keys to adjust the LFE LEVEL.



- The LFE LEVEL can be adjusted from 0dB to -10dB in 1dB step decrements.

- 3 Press the SETUP key to accept the setting.
- 4 Setup is complete when the EXIT indication appears.



- The speakers you have selected should appear on the display. Confirm that all the speakers have been correctly selected.

- 5 Press the SETUP key to exit the SETUP mode.

**Input level adjustment (analog sources only)**

If the input level of an analog source signal is too high, the CLIP indicator will blink to indicate the source signal. Adjust the input level.



- 1 Use the INPUT SELECTOR knob to select the source of which the input level you want to adjust.
  - You can store a separate input level for each input source.
- 2 Press the SOUND key repeatedly until the "INPUT" indication appears.
- 3 Use the MULTI CONTROL knob or MULTI CONTROL  $\Delta/\nabla$  keys to adjust the input level.



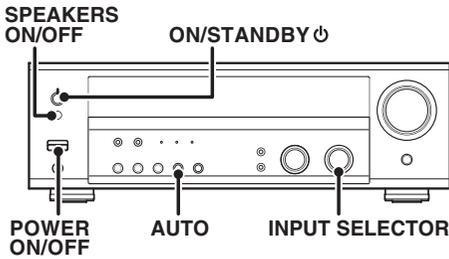
- The input level may be adjusted to any one of three settings: 0dB, -3dB, and -6dB. (The initial setting is 0dB.)

- 4 Press the SOUND key again to return to the input indication.

# Normal playback

## Preparing for playback

Some preparatory steps are needed before starting playback.



### Turning on the receiver

- 1 Turn on the power to the related components.
- 2 Turn on the power to this receiver by pressing POWER ON/OFF and ON/STANDBY  $\cup$  key.

### Selecting the input mode

If you have selected a component connected to the CD/DVD, VIDEO2, DVD/6CH jacks, make sure that the input mode setting is correct for the type of audio signal to be used. 

### Selecting MD/TAPE

Select the source name corresponding to the component connected to the MD/TAPE jacks. The initial factory setting is "TAPE". To change the source to "MD", follow the steps below:

- 1 Use the INPUT SELECTOR knob to select "TAPE".
- 2 Hold down the AUTO key for more than 2 seconds.
  - The source indication changes to "MD".
  - To return to the original indication, repeat procedure 2.

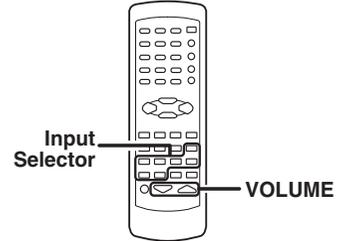
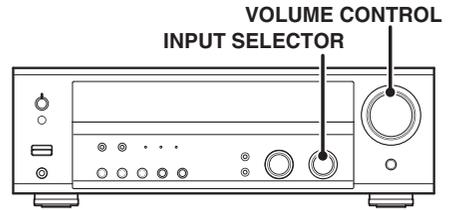
### Setting the speaker status

The speaker indicator lights up.



Press the SPEAKERS ON/OFF key to switch the speaker on or off.

## Listening to a source component



- 1 Use the INPUT SELECTOR knob or keys to select the source you want to listen to.

The input sources change as shown below:

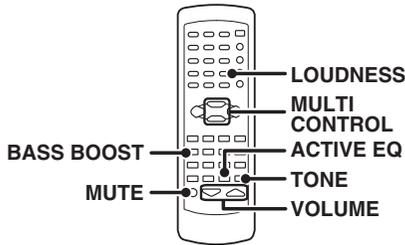
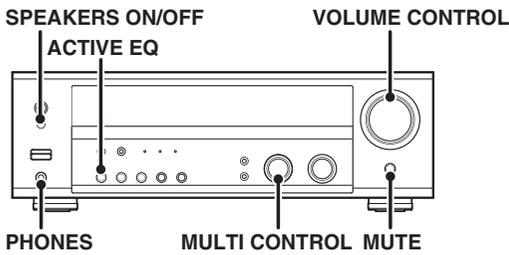
- 1 "TUNER"
- 2 "CD/DVD"
- 3 "TAPE" or "MD"
- 4 "VIDEO1"
- 5 "VIDEO2"
- 6 "DVD/6CH"
- 7 "PHONO"

- 2 Start playback from the selected source.

- 3 Use the VOLUME CONTROL knob or VOLUME keys to adjust the volume.

## Adjusting the sound

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### Adjusting the Tone (remote control only)

You can adjust the sound quality when the receiver is in the PCM stereo and analog stereo mode.

- 1 Press the **TONE** key to select the **TONE** mode.
- 2 Use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys to select **TONE ON/OFF**.



- 3 When in **TONE ON** selection, press the **TONE** key for the following displays.

**BASS** : Select this to adjust the low frequency range.  
**TREB** : Select this to adjust the high frequency range.

- 4 Use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys to adjust the sound quality.



- The bass and treble levels are adjustable from -10 to +10 in 2 step increments.

### Once-touch low frequency emphasis (Bass Boost) (remote control only)

You can adjust the sound quality when the receiver is in the PCM stereo and analog stereo modes.

Press the **BASS BOOSTS** key.

- Press the key once to select the maximum (+10) low frequency emphasis setting.
- **TONE** will automatically be turned ON.
- This key does not function when the receiver is in the sound quality or ambience effects adjustment mode.

### Switching back to the previous setting

Press the **BASS BOOST** key again.

### Adjusting the Loudness mode (remote control only)

You can adjust the Loudness function which controls the low volume settings to maintain the music's richness. The adjustment can be made when the receiver is in the PCM stereo and analog stereo mode.

Press the **LOUDNESS** key to turn the **LOUDNESS** setting ON.

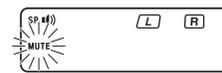
#### To cancel

Press the **LOUDNESS** key again so that the "LOUDNESS" indicator goes off.

### Muting the sound

The **MUTE** key lets you mute the sound of the speakers.

Press the **MUTE** key.



#### To cancel

- Press the **MUTE** key again so that the "MUTE" indicator goes off.
- **MUTE ON** can also be deactivated by turning the volume control knob.

### ACTIVE EQ mode

You can enjoy a more impressive sound effect when **ACTIVE EQ** is turned ON during Dolby Digital and DTS playback and, when in PCM and analog stereo mode.

Press the **ACTIVE EQ** key for the following selections;

- 1 **ACTIVE EQ MUSIC** : Effective when listening to music. (The **ACTIVE EQ** LED indicator lights up.)
- 2 **ACTIVE EQ CINEMA** : Effective when watching a movie. (The **ACTIVE EQ** LED indicator lights up.)
- 3 **ACTIVE EQ TV** : Effective when watching TV. (The **ACTIVE EQ** LED indicator lights up.)
- 4 **ACTIVE EQ OFF** : The **ACTIVE EQ** function is turned OFF. (The **ACTIVE EQ** LED indicator goes off.)

- **ACTIVE EQ** function will not be available when **REC MODE**, **AUTO TUNING** or **PRESET MEMORY** is ON and during 96kHz LPCM playback.

### Listening with headphones

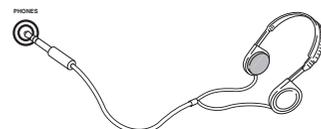
- 1 Press the **SPEAKERS ON/OFF** key so that the speaker indicator goes off.

Make sure the **SP** indicator is turned OFF.



- If you turn off all of the speakers when in surround mode, the surround mode will be canceled as well, resulting in stereo playback.

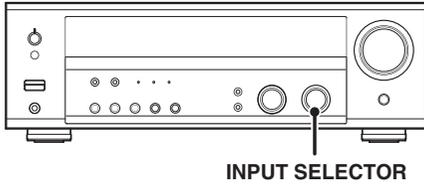
- 2 Connect headphones to the **PHONES** jack.



- 3 Use the **VOLUME CONTROL** knob or **VOLUME** keys to adjust the volume.

# Recording

## Recording audio (analog sources)



### Recording a music source

- 1 Use the **INPUT SELECTOR** knob to select the source (other than "MD/TAPE") you want to record.
- 2 Set the MD or TAPE recorder to record.
- 3 Start playback, then start recording.

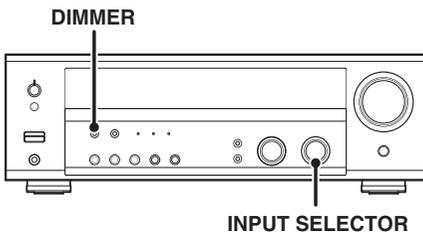
### Recording video

- 1 Use the **INPUT SELECTOR** knob to select the video source (other than "VIDEO1") you want to record.
- 2 Set the video deck connected to **VIDEO 1** to record.
  - Select the REC mode to record a digital input source.
- 3 Start playback, then start recording.
  - Recording may not be normal for some video software. This is due to the copy guard condition. → 30

## Recording audio (digital sources)

Switch on the **REC mode** to record a digital input source. Usually use the **A-REC (Auto-Record) mode** to record audio input sources. When the digital mode changes during recording in the **A-REC mode**, the audio input source may be interrupted momentarily.

### Recording music in A-REC or M-REC mode



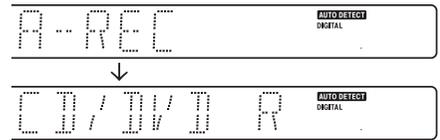
- 1 Use the **INPUT SELECTOR** knob to select the source (CD/DVD, DVD/6CH or VIDEO2) you want to record.
- 2 Set the MD or TAPE recorder to record.

- 3 Press and hold the **DIMMER** key for more than 2 seconds to select the **A-REC** or **M-REC** mode during digital input.

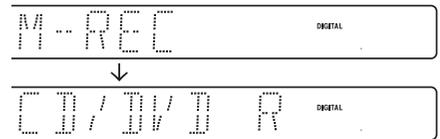
- ① **Rec mode off** : The digital input record mode is switched off.
- ② **A-REC mode** : The digital input signals (DTS, Dolby Digital, or PCM) are identified automatically and converted into stereo signals that are ready for recording.
- ③ **M-REC mode** : The input signal type at the moment this mode is selected is held throughout this mode.

- When the **M-REC mode** is selected, the digital input signal is converted to stereo signals (down-mix). But once the digital signal is changed to other signal, no signal is output. When the **A-REC mode** is selected, the digital input signal is converted to stereo signals even if the digital signal is changed.

For **A-REC mode**:



For **M-REC mode**:



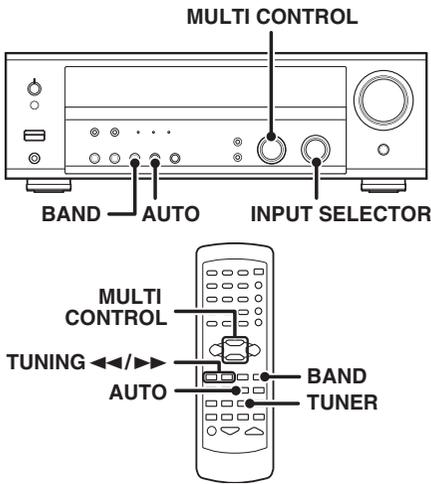
- 4 Start playback, then start recording.
  - If the audio reproduction stops in the middle due to change in the input signals, etc., press the **DIMMER** key.

# Listening to radio broadcasts

The receiver can store up to 40 stations in the memory and recall them by one-touch operation.

Radio stations can be classified into RDS (Radio Data System) stations and other stations. To listen to or store RDS stations in the preset memory see "Using RDS (Radio Data System)".

## Tuning (non-RDS) radio stations



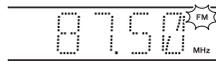
1 Use the **INPUT SELECTOR knob** or **TUNER key** to select the tuner.

2 Use the **BAND key** to select the desired broadcast band.

Each press switches the band as follows:

- ① FM
- ② AM

"AM" or "FM" indicator appears in the display

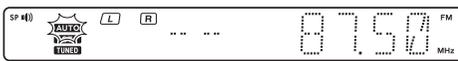


3 Use the **AUTO key** to select the desired tuning method.

Each press switches the tuning method as follows:

- ① **AUTO lit** (auto tuning)
- ② **AUTO not lit** (manual tuning)

"AUTO" indicator lights up in the display.



- Normally, set to "AUTO" (auto tuning). If the radio waves are weak and there is a lot of interference, switch to manual tuning. (With manual tuning, stereo broadcasts will be received in monaural.)

4 Use the **MULTI CONTROL knob** or **MULTI CONTROL**  $\Delta/\nabla$  keys, or **TUNING**  $\leftarrow/\rightarrow$  keys to select the station.

"ST." lights when a broadcast is being received in stereo.



"TUNED" is displayed when a station is received.

**Auto tuning** : The next station is tuned automatically.

**Manual tuning** : Turn the knob (press the key) to select the desired station.

## Using RDS (Radio Data System)

RDS is a system that transmits useful information (in the form of digital data) for FM broadcasts along with the broadcast signal. Tuners and receivers designed for RDS reception can extract the information from the broadcast signal for use with various functions, such as automatic display of the station name.

### RDS functions:

#### PTY (Program Type Identification) Search

- 22

Automatically tunes to a station that is currently broadcasting the specified program type (genre).

#### PS (Program Service Name) Display

Automatically displays the station name transmitted by the RDS station.

#### RDS AUTO MEMORY function

- 22

Automatically selects and stores up to 40 RDS stations in the preset memory.

If fewer than 40 RDS stations have been stored in the preset memory, regular FM stations will be stored in the remaining places.

#### Radio Text function

Displays the radio text data transmitted by some RDS stations when you press the **RDS Disp.** (Display) key. There is "NO RT" display if no text data is transmitted.

The "RDS" indicator lights up when an RDS broadcast (signal) is received.



Note

Some functions and function names may differ for certain countries and areas.

Before using a function utilizing the RDS, be sure to perform the RDS Auto Memory operation by referring to the description in "Presetting RDS stations (RDS AUTO MEMORY)".

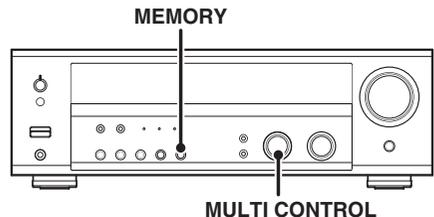
- 22

## Presetting radio stations manually

The RDS auto memory function assigns preset numbers to RDS stations starting from preset number "1". Therefore, be sure to execute the RDS auto memory function before using the following operations to manually store AM stations and other FM stations, and RDS stations.

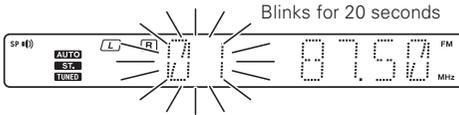
See "Presetting RDS stations (RDS AUTO MEMORY)".

- 22



1 Tune to the station you want to store.

**2** Press the **MEMORY** key while receiving the station.



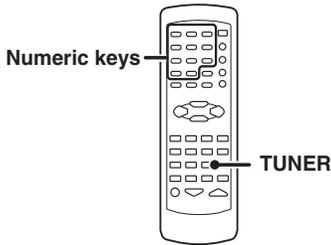
Proceed to step **3** within 20 seconds.  
(If more than 20 seconds elapse, press the **MEMORY** key again).

**3** Use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys to select one of the station presets (1 – 40).

**4** Press the **MEMORY** key again to confirm the setting.

- Repeat steps **1**, **2**, **3**, and **4** to store as many stations as necessary.
- If you store a station at a previously used preset, the previous station will be replaced by the new one.

## Receiving preset stations



**1** Press the **TUNER** key to select tuner as the source.

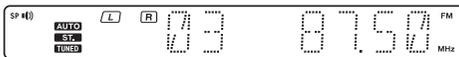
**2** Enter the number of the preset station you want to receive (up to "40").

Press the Numeric keys in the following order:

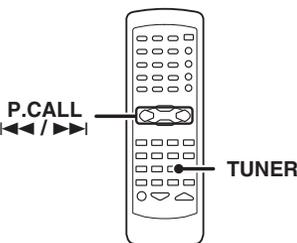
For "15", press ..... **+10**, **5**

For "20", press ..... **+10**, **+10**, **0**

- If you make a mistake entering a two digit number, press the **+10** key repeatedly to return to the original display and start again.



## Receiving preset stations in order (P.CALL)



**1** Press the **TUNER** key to select tuner as the source.

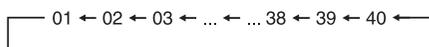
**2** Use the **P.CALL**  $\leftarrow\leftarrow\leftarrow/\rightarrow\rightarrow\rightarrow$  keys to select the desired station.

- Each time you press the key, another preset station is received in order.

Pressing the **P.CALL**  $\rightarrow\rightarrow\rightarrow$  does the following:

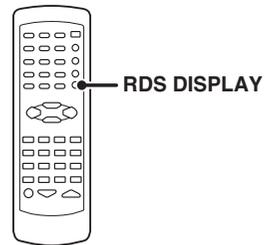


Pressing the **P.CALL**  $\leftarrow\leftarrow\leftarrow$  does the following:



Holding down the **P.CALL**  $\rightarrow\rightarrow\rightarrow$  or  $\leftarrow\leftarrow\leftarrow$  key, lets you skip through the presets, receiving each preset station at 0.5 second intervals.

## Using the RDS DISPLAY key



Pressing the **RDS DISPLAY** key changes the contents of the display.

Each press switches the display mode as follows:

- 1 **PS** (Program Service name) display
- 2 **RT** (Radio Text) display
- 3 **Frequency** display

**1 PS (Program Service name) display:**

The station name is displayed automatically when an RDS broadcast is received.

If no PS data was sent, "NO PS" is displayed.



**2 RT (Radio Text) display:**

Text data accompanying the RDS broadcast scrolls across the display. "NO RT" or "RT----" is displayed if the current RDS station does not provide RT data.



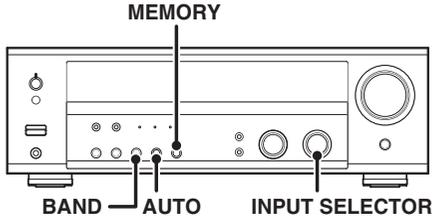
**3 Frequency display:**

Displays the frequency of the current station.



## Presetting RDS stations (RDS AUTO MEMORY)

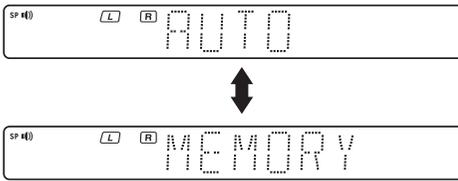
This function automatically stores up to 40 RDS stations in the preset memory. In order to use the PTY function, the RDS stations must be stored in the preset memory using the RDS AUTO MEMORY function.



1 Use the **INPUT SELECTOR** knob to select the tuner.

2 Use the **BAND** key to set the broadcast band to "FM".

3 Press and hold the **MEMORY** key for more than 2 seconds.

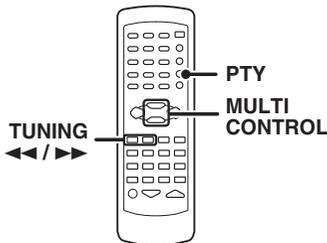


- After a few minutes, up to 40 RDS stations are preset in order from channel "01".
- Stations already stored in the preset memory may be replaced by RDS stations. (i.e., If the RDS AUTO MEMORY function detects 15 RDS stations, the stations currently preset at numbers 01~15 will be replaced by the RDS stations.)

## Tuning by Program Type (PTY search)

This function lets you set the tuner to automatically search for stations which are currently broadcasting the type of program (genre) you want to listen to.

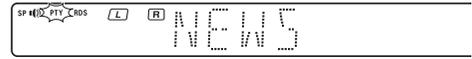
Under certain receiving conditions, it may take more than 1 minute to complete the search.



### Preparations

- Execute the RDS auto memory procedure.
- Set the broadcast band to FM.
- Tune to an RDS station.

1 Press the **PTY** key to activate the **PTY** search mode.



When an RDS broadcast is received, the program type is shown on the display. If no PTY data is available, or if the station is not an RDS station, "NONE" is displayed.

2 While the "PTY" indicator is lit, use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys, or **TUNING**  $\lll/\ggg$  keys to select the program type of your choice.

### Program type table

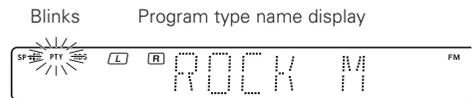
Program Type Name	Display	Program Type Name	Display
Pop Music	POP M	Weather	WEATHER
Rock Music	ROCK M	Finance	FINANCE
Easy Music	EASY M	Children's Program	CHILDREN
Light Classical Music	LIGHT M	Social Affairs	SOCIAL
Serious Classical Music	CLASSICS	Religion	RELIGION
Other Music	OTHER M	Phone In	PHONE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

"NO PROG" is displayed if this operation is attempted before performing the RDS Auto Memory operation.

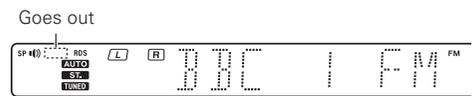
3 Press the **PTY** key to start searching.

**EXAMPLE: Searching for a Rock Music broadcast.**

Display while searching.



Display when a station is received.



Station name display

- No sound is heard while "PTY" is blinking.
- If the desired program type cannot be found, "NO PROG" is displayed, then after several seconds the display returns to the original display.

### To select another program type

Repeat steps 1, 2 and 3.

# Ambience effects

This receiver is equipped with listening modes that allow you to enjoy an enhanced sonic ambience with a variety of video sources.

In order to obtain the optimum effect from the surround modes, make sure to input the proper speaker settings beforehand.

→ 14

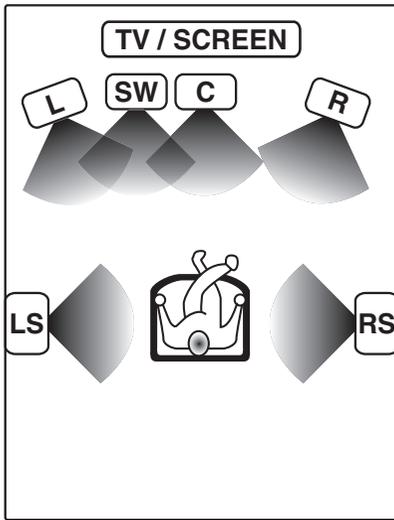
## Surround modes

The below speaker placements are for 5.1 channel surround sound system which are;

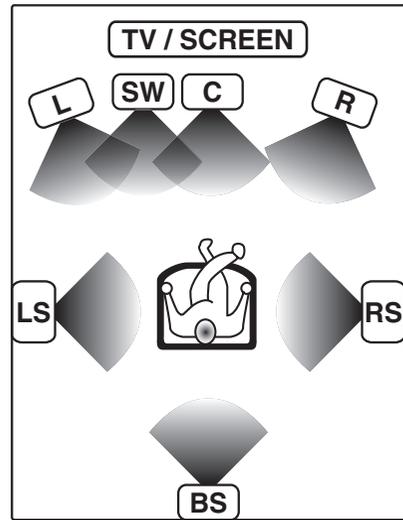
- Dolby Digital
- Dolby Pro Logic II
- DTS
- DSP
- DVD 6-channel

The below speaker placements are for 6.1 channel surround sound system which are;

- Dolby Digital EX
- DTS-ES
- Neo:6



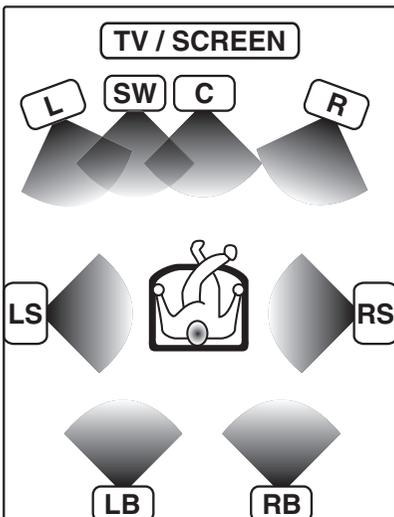
No Surround Back speaker



With Surround Back speaker

The below speaker placements are for 7.1 channel surround sound system which is;

- Dolby Pro Logic IIx



With Surround Back Left and Right speakers

- L** Front Left speaker
- SW** Subwoofer
- C** Center speaker
- R** Front Right speaker
- LS** Surround Left speaker
- RS** Surround Right speaker
- BS** Surround Back speaker
- LB** Surround Back Left speaker
- RB** Surround Back Right speaker

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

"DTS", "DTS-ES Extended Surround" and "Neo:6" are trademarks of Digital Theater Systems, Inc.



Note

**LFE** = Low Frequency Effects. This channel delivers separate non-directional bass signals to the subwoofer for more dynamic deep bass sound effects.

**Dolby Digital**

The Dolby Digital surround format lets you enjoy up to 5.1 channels of digital surround sound from Dolby Digital program sources (such as Laserdisc or DVD software marked ). Compared with previous Dolby surround, Dolby Digital provides even better sound quality, greater spatial accuracy, and improved dynamic range.

Although a full set of speakers (front left, right, and center, surround left and right, and a subwoofer) is required for true 5.1 channel Dolby Digital surround sound, this receiver lets you enjoy Dolby Digital (and Dolby Surround) program sources, even if you connect only the front speakers.

**Dolby Digital EX**

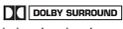
Dolby Digital EX is an extension of Dolby Digital technology. Dolby Digital EX creates six full-bandwidth output channels from 6.1-channel sources. This is done using a matrix decoder that derives three surround channels from the two in the original recording. This is achieved by using three different surround signals, surround left, surround right, and surround back, each driving its own array of speakers. Think of it as adding a center channel for the rear speakers, which give more diffuse and natural surround effect, even if you wanted the ability to completely encircle the audience with sound, positioning sound effects exactly where they would be heard in real life. For best results, Dolby Digital EX should be used with movie soundtracks recorded with Dolby Digital Surround EX which contain a digital flag that will automatically activate this feature. However, for titles released prior to late 2001, this feature has to be activated manually.

Although a full set of speakers (front left, right, and center, surround left and right, surround back and a subwoofer) is required for true 6.1 channel Dolby Digital Surround EX sound, this receiver lets you enjoy Dolby Digital (and Dolby Surround) program sources, even if you connect only the front speakers.

Although only Dolby Digital soundtracks incorporate a separate low frequency channel, connecting a subwoofer will also improve deep bass performance in the other surround modes.

Dolby Digital has a ".1" or LFE channel. The indication "**LFE**" appears in the display when a signal is being input for this channel. 

**Dolby PRO LOGIC IIx and Dolby PRO LOGIC II**

Dolby Pro Logic II was designed specifically to provide a new sense of spatiality, directionality and articulation of sounds from Dolby Surround encoded sources (such as video and Laserdisc software marked ). This is achieved with an intelligent, built-in feedback logic design, a matrix surround decoding and the decoding of stereo, full bandwidth surround outputs. DOLBY PRO LOGIC IIx enhanced DOLBY PRO LOGIC II's features. It creates 6.1 channel and 7.1 channel surround sound from stereo or 5.1 channel signals. This feature provides you an astonishing ambience effect which makes you feel you are surrounded by natural sound. Especially 7.1 channel surround sound can produce real back sound from Surround Back speakers.

The PRO LOGIC IIx modes programmed into this model are "MOVIE", "MUSIC" and "GAME". The PRO LOGIC II modes programmed into this model are "MOVIE", "MUSIC", "GAME" and "PRO LOGIC". The "MOVIE" mode has preset characteristics to produce a calibrated, high-level surround sound playback while the "MUSIC" mode has user-adjustable characteristics to offer the three optional controls, like "Dimension", "Center Width" and "Panorama" modes to allow optimization of the soundfields as desired. The "Dimension" control allows the user to gradually adjust the soundfield either towards the front or towards the rear; the "Center Width" control allows various adjustment of the left-center-right speakers' balance; the "Panorama" mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging. The "GAME" mode provides surrounded and exciting sound when you enjoy game or TV. Especially in PRO LOGIC IIx "GAME" mode, base sound not only from Front and Center but also from Surround channel is added to Subwoofer. This provides even more dynamic surround effects.

**DTS-ES**

DTS-ES (Digital Theater System-Extended Surround) presents 6.1 channels surround system with additional Surround Back channel which evolved from the conventional 5.1 channels surround system. DTS-ES format that was recorded in DVD, CD or LD comprises of two modes. DTS-ES Discrete 6.1 produces the discrete surround back which is completely independent and DTS-ES Matrix 6.1 produces the surround back which synthesised within the left and right surround channels using matrix technology. DTS-ES has perfect compatibility with the conventional 5.1 channels surround system. 6.1 channels surround with an additional surround back presents a more natural presence and surround effects by increasing the impression of the sound image from back. Programs which are recorded using DTS-ES technology consist of information flags which will be able to control the Discrete and Matrix mode. Thus, it can automatically select the best matched mode.

**Neo:6**

Neo:6 is a new technology which was developed by DTS. It can produce high grade 6 channels surround with an astonishing fidelity from 2 channels content. Neo:6 has 2 modes, "CINEMA" mode is for movie playback and "MUSIC" mode is for music playback.

DTS has a ".1" or LFE channel. The indication "**LFE**" appears in the display when a signal is being input for this channel. 

**DTS**

The DTS multi-channel audio format is available on CD, LD and DVD software. DTS is a strictly digital format and cannot be decoded inside most CD, LD or DVD players. For this reason, if you attempt to listen to DTS encoded software through the analog output of your new CD, LD or DVD player, you will experience digital noise in most cases. This noise can be quite loud if the analog output is connected directly to a high power amplification system. Proper measures for playing the digital output as described below should be taken to avoid this situation. To enjoy DTS Digital Surround playback, an external 5.1 channel DTS Digital Surround decoder system or an amplifier with a built-in DTS Digital Surround decoder must be connected to the digital output (S/P DIF, AES/EBU or TosLink) of a CD, LD or DVD player. All models are incorporated with the DTS decoder.

DTS has a ".1" or LFE channel. The indication "**LFE**" appears in the display when a signal is being input for this channel. 

**DSP mode**

The DSP mode lets you add the atmosphere of a live concert or hall to almost any type of program source. These modes are particularly effective when used with stereo program sources, like CD, television, and FM radio. You might enjoy trying the ARENA, JAZZ CLUB, THEATER, STADIUM or DISCO mode the next time you watch a concert or sporting event!

**What's DSP?**

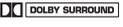
DSP stands for Digital Signal Processor. The way a sound is heard in an actual environment depends on a variety of different factors. One of the most important is reverberation (the act of decaying elements of sound echoing in various places). The DSP modes produce the feeling of presence by using the DSP to create reverberation, without spoiling the sound quality of the original signal.

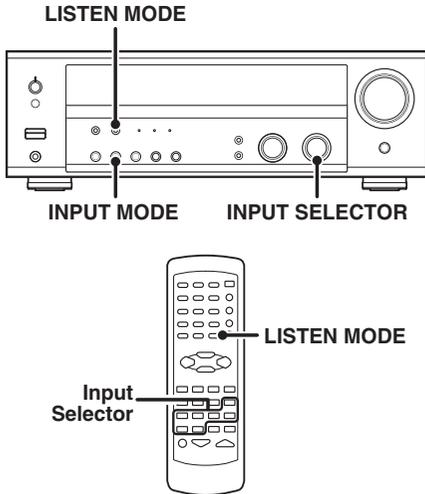
**DVD 6-channel mode**

Using a DVD player or the like equipped with six (5.1) output channels and the receiver, you can enjoy multi-channel encoded DVD source material in all its splendor. Since the source signals are digital and each channel is input independently, the resulting sound quality, sense of spaciousness, and dynamic range are superb.

The indication "**6CH INPUT**" appears in the display when a signal is being input for this channel.

## Surround play

The DTS compatible models can reproduce a CD, DVD, or LD carrying the DTS mark. DOLBY DIGITAL can be used when playing DVD or LD software bearing the  mark and DOLBY DIGITAL format digital broadcasts (etc.). DOLBY PRO LOGIC can be used when playing video, DVD, or LD software bearing the  mark.



### Preparations

- Turn ON related components.
- Complete "Preparing for surround sound" (speaker settings). → 14
- Use the **INPUT SELECTOR** to select the component you wish to play back with surround sound.
- Use the **INPUT MODE** key to select the input mode (analog or digital) for the source you wish to playback. → 2
- Noise will be produced when a DTS source is played by selecting the analog input.

### 1 Start playing the video software.

### 2 Press the LISTEN MODE key to select the listening mode.

The listening mode settings are stored separately for each input. If the input mode is set to full auto ("AUTO DETECT" lights), the receiver selects the optimal listening mode automatically based on the type of input signal and the speaker settings.

Each press of the LISTEN MODE key switches the setting as listed.

The listening mode settings are different depending on the type of input signal.

#### Dolby Digital Surround EX compliant disc :

Dolby Digital Surround EX compliant disc contains the identification signals. When you choose **FULL AUTO** during "Input mode setting" (→ 2), this amplifier detects the identification signals and change the LISTEN mode to the **DOLBY DIGITAL EX** (Dolby Digital Surround EX mode) automatically.

But sometimes we find some discs which is Dolby Digital Surround EX compliant disc but it does not contain the identification signals. If you find the notice like "Surround EX" on the label of disc or package, you can choose **DOLBY DIGITAL EX** then you can enjoy Dolby Digital Surround EX sound.

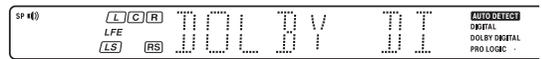
### When the DOLBY DIGITAL or DOLBY DIGITAL EX signal is input:

(The DOLBY DIGITAL or PRO LOGIC indicator lights up.)

- ① **DOLBY DIGITAL** : DOLBY DIGITAL surround.  
(The DOLBY DIGITAL indicator lights up.)
- ② **DOLBY DIGITAL EX** : DOLBY DIGITAL EX surround.  
(The DOLBY DIGITAL EX indicator lights up.)
- ③ **PL IIx MOVIE** : PRO LOGIC IIx surround MOVIE mode.  
(The PRO LOGIC indicator lights up.)
- ④ **PL IIx MUSIC** : PRO LOGIC IIx surround MUSIC mode.  
(The PRO LOGIC indicator lights up.)
- ⑤ **PL IIx GAME** : PRO LOGIC IIx surround GAME mode.  
(The PRO LOGIC indicator lights up.)
- ⑥ **PL II MOVIE** : PRO LOGIC II surround MOVIE mode.  
(The PRO LOGIC indicator lights up.)
- ⑦ **PL II MUSIC** : PRO LOGIC II surround MUSIC mode.  
(The PRO LOGIC indicator lights up.)
- ⑧ **PL II GAME** : PRO LOGIC II surround GAME mode.  
(The PRO LOGIC indicator lights up.)
- ⑨ **PRO LOGIC** : PRO LOGIC II surround PRO LOGIC mode.  
(The PRO LOGIC indicator lights up.)
- ⑩ **STEREO** : Normal stereo playback.

### When you select DOLBY DIGITAL

"DOLBY DIGITAL" will scroll from right to left.



### When the DTS or DTS-ES (matrix, discrete or bitstream) signal is input:

(The DTS LED indicator lights up.)

- ① **DTS-ES MATRIX 6.1** : DTS - ES MATRIX 6.1 channel surround  
(The DTS-ES and MATRIX 6.1 indicators light up.)
- ② **DTS-ES DISCRETE 6.1** : DTS - ES DISCRETE 6.1 channel surround  
(The DTS-ES and DISCRETE 6.1 indicators light up.)
- ③ **DTS** : DTS 5.1 channel surround  
(The DTS indicator lights up.)
- ④ **DTS + NEO:6 CINEMA** : DTS + NEO:6 surround CINEMA mode.
- ⑤ **STEREO** : Normal stereo playback

### When the analog signal or the digital signal (except for DOLBY DIGITAL or DTS signal) is input:

- ① **PL IIx MOVIE** : PRO LOGIC IIx surround MOVIE mode.  
(The PRO LOGIC indicator lights up.)
- ② **PL IIx MUSIC** : PRO LOGIC IIx surround MUSIC mode.  
(The PRO LOGIC indicator lights up.)
- ③ **PL IIx GAME** : PRO LOGIC IIx surround GAME mode.  
(The PRO LOGIC indicator lights up.)
- ④ **PL II MOVIE** : PRO LOGIC II surround MOVIE mode.  
(The PRO LOGIC indicator lights up.)
- ⑤ **PL II MUSIC** : PRO LOGIC II surround MUSIC mode.  
(The PRO LOGIC indicator lights up.)
- ⑥ **PL II GAME** : PRO LOGIC II surround GAME mode.  
(The PRO LOGIC indicator lights up.)
- ⑦ **PRO LOGIC** : PRO LOGIC II surround PRO LOGIC mode.  
(The PRO LOGIC indicator lights up.)
- ⑧ **NEO:6 CINEMA** : NEO:6 surround CINEMA mode.  
(The NEO:6 indicator lights up.)
- ⑨ **NEO:6 MUSIC** : NEO:6 surround MUSIC mode.  
(The NEO:6 indicator lights up.)
- ⑩ **ARENA** : DSP Surround ARENA mode.

- ⑪ **JAZZ CLUB** : DSP Surround JAZZ CLUB mode.
- ⑫ **THEATER** : DSP Surround THEATER mode.
- ⑬ **STADIUM** : DSP Surround STADIUM mode.
- ⑭ **DISCO** : DSP Surround DISCO mode.
- ⑮ **STEREO** : Normal stereo playback.

• Dolby Digital or DTS signal having more channels than the maximum number of playback channels available using the receiver's current settings is input, downmixing is performed to match the number of available channels.

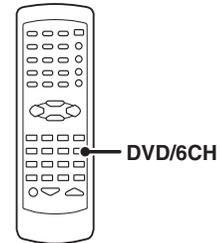
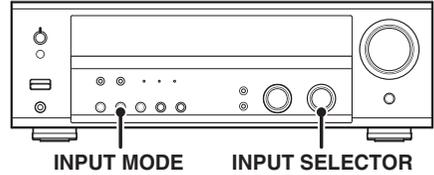
**3 Adjust the volume.**

Notes

- Depending on the type of the signal or speaker setting, some listening modes cannot be selected.
- When playback is started, the sound may be cut or interrupted before the input source is confirmed as Dolby Digital.
- To enjoy Dolby Digital surround (as well as all the other listening modes) from a single component, be sure to use a Dolby Digital compatible source component.

## DVD 6-channel playback

Using a DVD player or the like equipped with six (5.1) output channels and the receiver, you can enjoy surround sound playback. Connecting a DVD player which can decode the surround signal itself is also acceptable.



### Preparations

- Connect your DVD player to the DVD/6CH jacks of the receiver.
- Turn on all other components that will be used.
- Complete "Preparing for surround sound". - 14

**1 Select "DVD/6CH" as the input source.**

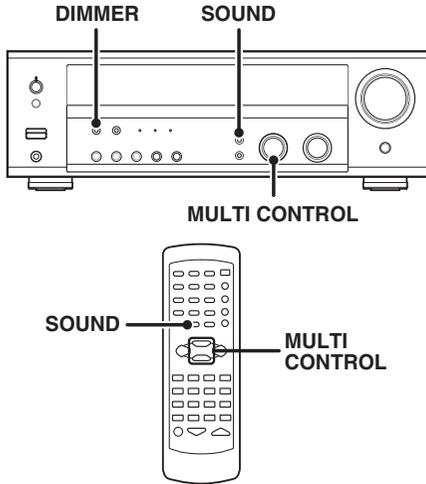
**2 Select "6CH INPT" by pressing the INPUT MODE key.**

**3 Start playback of the DVD software.**

**4 Adjust the volume.**

- It is not possible to adjust the volume level or sound quality (**SETUP, SOUND, LISTEN MODE, ACTIVE EQ and TONE keys will not be functional**) of the channels separately when the receiver is in the 6CH INPUT mode. Adjust the volume with the controls of the DVD player.  
For the powered subwoofer, you can adjust the volume of the subwoofer using the subwoofer's own volume control.

## Convenient functions



### Adjusting the sound

You can make further adjustments to the sound while listening to playback in the surround mode.

- 1 Press the **SOUND** key until the desired item appears in the display.

Each time you press the button, the menu changes as follows:  
**Note that some items are not displayed depending on speaker settings and listening mode.**

- 1 **C** (Center speaker level adjustment)\*
- 2 **RS** (Surround Right speaker level adjustment)\*
- 3 **RB** (surround Back Right speaker level adjustment)\*
- 4 **LB** (surround Back Left speaker level adjustment)\*
- 5 **LS** (Surround Left speaker level adjustment)\*
- 6 **SW** (Subwoofer level adjustment)\*
- 7 **INPUT** (input level adjustment - analog mode only) 
- 8 **NIGHT** (midnight mode ON/OFF - Dolby Digital and DTS mode only)
- 9 **PANORAMA** (panorama mode ON/OFF)\*\*
- 10 **DIMENSION** (dimension adjustment)\*\*
- 11 **CENTER WIDTH** (center width adjustment)\*\*
- 12 **OFF**

\* The adjustment is only temporary for the current input selection. The value will return automatically to the original setup value when the power is turned on/off or when the input selection is changed.  
 \*\* Pro Logic II x Music mode and Pro Logic II Music mode only.

- 2 Use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys to adjust the setting as desired.

### Midnight mode (Dolby Digital and DTS mode only)

When watching movies at night, you might not be able to raise the volume as loud as normal. Midnight mode compresses the dynamic range of previously specified heavy sound passage of the Dolby Digital and DTS sound track (like scenes with sudden increases in volume) to minimize the difference in volume between the scenes with heavy sound passage and scenes with normal sound passage. This makes it easy to hear all of the sound track, even when listening at low volumes.

- 1 Press the **SOUND** key repeatedly until **"NIGHT"** appears on the display.
  - This can be selected only if CD/DVD, DVD/6CH or VIDEO2 is selected as the source and the listen mode is set to "DOLBY DIGITAL" or "DTS".
- 2 Use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys to select the **ON** or **OFF** setting.



- Some Dolby Digital or DTS software may not be compatible with the Midnight mode.

### Panorama mode (Pro Logic IIx and Pro Logic II Music mode only)

When listening to music, you will be able to enjoy the "wraparound" sound effect when you adjust the panorama mode.

- 1 Press the **SOUND** key repeatedly until **"PANORAMA"** appears on the display.
  - The PANORAMA setting indication scrolls across the display.

"PANORAMA" will be scrolled from right to left.



- 2 Use the **MULTI CONTROL** knob or **Multi**  $\Delta/\nabla$  keys to select **PANORAMA ON** or **OFF**.

- 1 **ON** : PANORAMA mode is ON.
- 2 **OFF** : PANORAMA mode is OFF.



### Dimension mode (Pro Logic IIx and Pro Logic II Music mode only)

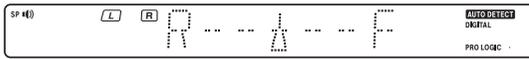
When listening to music with certain recordings, you will also be able to achieve a suitable balance from all the speakers by adjusting the dimension mode.

- 1 Press the **SOUND** key repeatedly until **"DIMENSION"** appears on the display.
  - The DIMENSION indication scrolls across the display.
- 2 Use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta/\nabla$  keys to adjust the soundfield towards the rear or the front.

Soundfield is adjusted towards the front.



Soundfield is in neutral position.



Soundfield is adjusted towards the rear.



**Center Width mode (Pro Logic IIx and Pro Logic II Music mode only)**

Center Width adjustment allows you to enjoy an enhanced sound when listening to music through center image from only center speaker, or left and right speakers or various combinations adjustments.

1 Press the **SOUND** key repeatedly until "CENTER WIDTH" appears on the display.

- The CENTER WIDTH indication scrolls across the display.
- When the center speaker is switched OFF, this mode will not be effective.

2 Use the **MULTI CONTROL** knob or **MULTI CONTROL**  $\Delta$ / $\nabla$  keys to adjust the left-center-right output.

Center image will be heard from center speaker only.



Center image will be heard from left and right speakers only.

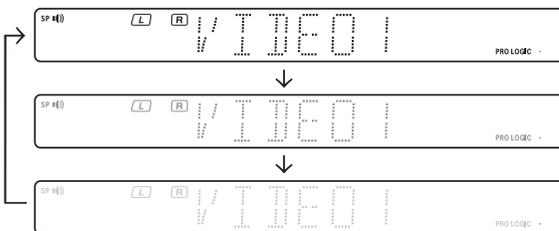


- When in other positions, center image from center speaker, left and right speakers can be heard simultaneously with various combinations.

**Display dimmer adjustment**

The dimmer function lets you select the brightness of the receiver's display. You might find this useful if you darken your room to watch movies or listen to music.

Each time you press the **DIMMER** key, the display brightness changes among the three available settings. Select the brightness level you find most pleasing.



**96kHz LPCM playback**

The receiver is compatible with the 96kHz LPCM playback. To play a 96kHz DVD, set the listen mode to "STEREO".

- In **F-AUTO** input mode, the listen mode will automatically be STEREO.
- When in **D-MANUAL** input mode (listen mode is not STEREO), "FS 96kHz" will appear in the display and no sound can be heard from the speakers. Press the LISTEN MODE key (the listen mode changes to the STEREO mode) to output sound from the speakers.

# Basic remote control operations for other components

## DVD player operation keys

The remote control of this unit can control two groups of KENWOOD DVD players directly without using the remote control supplied with the DVD player.

Group-1 : DV-4900, DV-4070B, DV-2070, DV-203, DVF-9010, DVF-K7010, DVF-5010, DVF-R9030, DVF-R7030, DVF-3530, DV-402, DV-5900, DV5700, DVF-R9050, DVF-J6050, DV-505, DV-503, DV-502, DVF-3550, DVF-3050, DVF-R4050, DVF-605, DV-6050, DVF-R5060, DVF-3060, DVF-3060K, DV-705, DVF-R5070, DVF-3070, DVF-3080, DVF-N7080 and DVF-8100.

Group-2 : DV-4050, DV-303, DVF-R6030, DVF-K5020, DVF-5020, DVF-3020 and DVF-3030.

Depending on your KENWOOD DVD model, you need to set up your receiver remote control as follows:

### To set for Group-1 DVD players:

Press the numeric "1" key while pressing the "POWER" key (not the DVD POWER key) on your remote control.

### To set for Group-2 DVD players:

Press the numeric "2" key while pressing the "POWER" key (not the DVD POWER key) on your remote control.

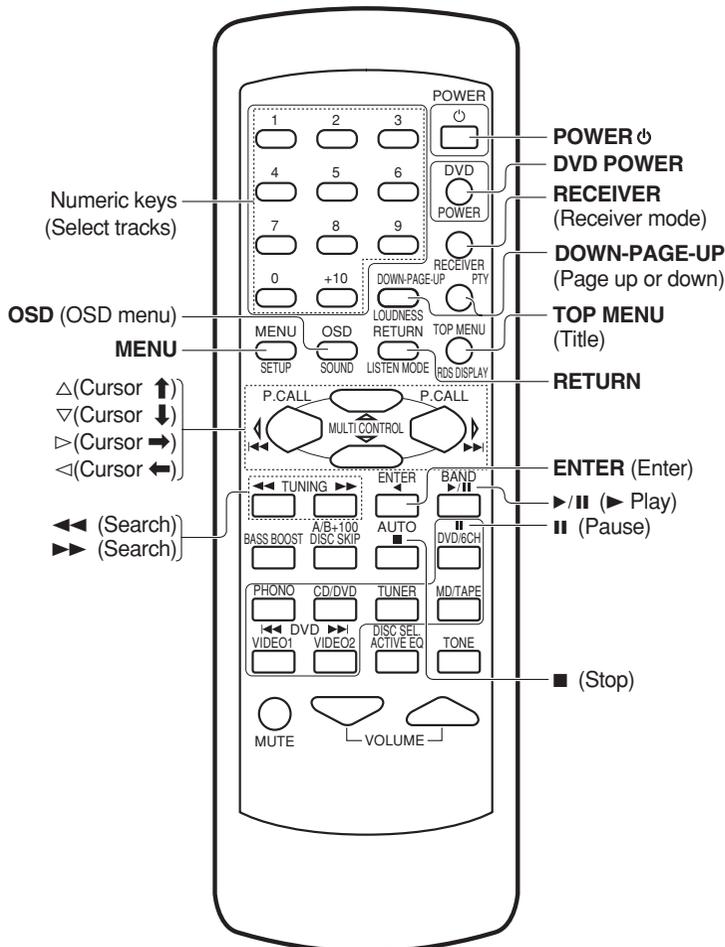
- If your DVD player is not listed in the list above, perform the set up for either Group-1 or Group-2. When the set up is successful, then your DVD player falls into that particular group.

### How to operate the DVD player with the remote control

1. Pressing the DVD POWER key for more than 2 seconds turns the DVD player on or off.
2. To carry out the functions of the DVD player, first press the DVD POWER key, then press each key for each operation as explained in the DVD operation pages in the operating instructions. In this case, the DVD operation mode is retained for 15 seconds after pressing any of those DVD operation buttons.  
(To turn the receiver operation mode within 15 seconds, press the RECEIVER key.)

### DVD player operation keys

You can perform these basic operations using the keys described below when connected to KENWOOD DVD player.



## Resetting the Microcomputer

The microcomputer may malfunction (unit cannot be operated, or shows an erroneous display) if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

**With the power cord plugged in, turn the POWER ON/OFF key OFF. Then, while holding down the ON/STANDBY key, press POWER ON/OFF key.**

- Please note that resetting the microcomputer will clear the contents of the memory and return the unit to the state it was in when it left the factory

## Amplifier

Symptom	Cause	Remedy
No sound from the speakers.	<ul style="list-style-type: none"> <li>• The speaker cords are disconnected.</li> <li>• VOLUME is set to the minimum position.</li> <li>• MUTE is ON.</li> <li>• The SPEAKERS switches are set to OFF.</li> </ul>	<ul style="list-style-type: none"> <li>• Connect them properly referring to "Connecting the speakers". - [12]</li> <li>• Adjust the volume to a proper level.</li> <li>• Turn OFF the MUTE. - [18]</li> <li>• Set the SPEAKERS switch to ON. - [17]</li> </ul>
The standby indicator blinks and sound is not output.	<ul style="list-style-type: none"> <li>• Speaker cords are short-circuited.</li> </ul>	<ul style="list-style-type: none"> <li>• Turn the power off, eliminate the short-circuiting, then turn on the power again.</li> </ul>
Sound is not output from one of the speakers.	<ul style="list-style-type: none"> <li>• The speaker cord is disconnected.</li> <li>• The speaker is not set up correctly.</li> </ul>	<ul style="list-style-type: none"> <li>• Connect it properly referring to "Connecting the speakers". - [12]</li> <li>• Set it up properly referring to "Speaker settings". - [14]</li> </ul>
Sound is not output from the surround speakers and / or the center speaker, or their sound is very soft.	<ul style="list-style-type: none"> <li>• The surround speaker cords and/or the center speaker cord is disconnected.</li> <li>• The speaker is not set up correctly.</li> <li>• A surround mode has not been activated.</li> <li>• The surround and/or center volume controls are set to the minimum level.</li> </ul>	<ul style="list-style-type: none"> <li>• Connect it properly referring to "Connecting the speakers". - [12]</li> <li>• Set it up properly referring to "Speaker settings". - [14]</li> <li>• Select a surround mode.</li> <li>• Adjust the speaker levels using the test tone. - [15]</li> </ul>
A humming noise is generated when the PHONO input selector is selected.	<ul style="list-style-type: none"> <li>• The audio cord from the record player is not connected to the PHONO jacks.</li> <li>• The record player is not grounded.</li> </ul>	<ul style="list-style-type: none"> <li>• Insert the audio cord plugs securely into the PHONO jacks.</li> <li>• Connect the grounding wire to the GND terminal on the rear panel.</li> </ul>
When playing a Dolby Digital source signal using a DVD player, the sound is cut off soon after it starts.	<ul style="list-style-type: none"> <li>• There are many possible causes for this problem, depending on the type of DVD player used.</li> </ul>	<ul style="list-style-type: none"> <li>• Set the input mode to digital manual before starting playback of the Dolby Digital source. - [7]</li> </ul>
No sound is produced during playback from a DVD player.	<ul style="list-style-type: none"> <li>• The input mode is set to digital manual.</li> </ul>	<ul style="list-style-type: none"> <li>• Press the INPUT MODE key to select to full auto mode. - [7]</li> </ul>
A video source cannot be recorded normally.	<ul style="list-style-type: none"> <li>• The software is copy-guarded.</li> </ul>	<ul style="list-style-type: none"> <li>• Copy-guarded video software cannot be recorded.</li> </ul>

## Tuner

Symptom	Cause	Remedy
Radio stations cannot be received.	<ul style="list-style-type: none"> <li>• No antenna is connected.</li> <li>• The broadcast band is not set properly.</li> <li>• The frequency of the desired station is not tuned.</li> </ul>	<ul style="list-style-type: none"> <li>• Connect an antenna. - [13]</li> <li>• Set the broadcast band properly.</li> <li>• Tune the frequency of the desired station. - [20]</li> </ul>
Interference.	<ul style="list-style-type: none"> <li>• Noise due to ignition of an automobile.</li> <li>• Noise due to interference from an electric appliance.</li> <li>• Noise due to a nearby TV set.</li> </ul>	<ul style="list-style-type: none"> <li>• Install the outdoor antenna away from the road.</li> <li>• Turn off the power to the appliance.</li> <li>• Install the receiver farther away from the TV.</li> </ul>
A station which was preset cannot be received by pressing the corresponding numeric key.	<ul style="list-style-type: none"> <li>• The preset station belongs to a frequency that cannot be received.</li> <li>• The preset memory was cleared because the power cord had been unplugged for a long period of time.</li> </ul>	<ul style="list-style-type: none"> <li>• Preset a station with a receivable frequency.</li> <li>• Preset the station again.</li> </ul>

**Remote control unit**

Symptom	Cause	Remedy
<p><b>Remote control operation is not possible.</b></p>	<ul style="list-style-type: none"> <li>• The remote control is set to a different operation mode.</li> <li>• Batteries are exhausted.</li> <li>• The remote control unit is too far away from the main system, controlling angle is too large, or there is an obstacle between the receiver and the remote.</li> <li>• No tape or CD is placed in the source component.</li> <li>• An attempt is made to play a tape which is being recorded in the cassette deck.</li> <li>• The remote control has not been set to the operation mode for the KENWOOD DVD player you wish to control.</li> </ul>	<ul style="list-style-type: none"> <li>• Press any of the <b>Input Selector</b> keys to select the appropriate operation mode.</li> <li>• Replace with new batteries.</li> <li>• Operate the remote control unit within the controllable range.</li>   <li>• Place the tape or CD in the source component which you want to play.</li> <li>• Wait for recording to complete.</li>   <li>• Press the <b>DVD POWER</b> key for more than 2 seconds to activate the operation mode for the KENWOOD DVD player you want to control before operation.</li> </ul> <p style="text-align: right;">→ 29</p>

