

KENWOOD

COMPACT HI-FI COMPONENT SYSTEM

K-821DV

INSTRUCTION MANUAL

Kenwood Corporation

Europe only



**Declaration of Conformity with regard to
the EMC Directive 2004/108/EC**

Manufacturer:

Kenwood Corporation
2967-3 Ishikawa-machi, Hachioji-shi, Tokyo, 192-8525 Japan



EU Representative's:

Kenwood Electronics Europe BV
Amsterdamseweg 37, 1422 AC UITHOORN, The Netherlands



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Safety Precautions

	<p>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.</p>
	<p>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.</p>

Before Applying Power

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

Units are designed for operation as follows.



AustraliaAC 240 V only

EuropeAC 230 V only

U.S.A.AC 120 V only

Safety precautions

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

	<p>CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN</p>	
<p>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.</p>		

Except for U.S.A.

The marking of products using lasers

**CLASS 1
LASER PRODUCT**

The marking this product has been classified as Class 1. It means that there is no danger of hazardous radiation outside the product.

Location: Back panel

IMPORTANT SAFETY INSTRUCTIONS

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

Read These Instructions

– All the safety and operating instructions should be read before the product is operated.

Keep These Instructions

– The safety and operating instructions should be retained for future reference.

Heed All Warnings

– All warnings on the product and in the operating instructions should be adhered to.

Follow All Instructions

– All operating and use instructions should be followed.

1. Clean only with dry cloth

– Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

2. Attachments

– Only use attachments/accessories specified by the manufacturer.

3. Do not use this apparatus near water

– This product shall not be exposed to dripping and splashing – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like. Do not place an object containing liquid, such as a flower vase, on the appliance.

4. Accessories

– Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



5. Ventilation

– Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

6. Power Sources

– This product should be operated only from the type of power source indicated on the product. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

7. CAUTION – Polarization

– Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

8. Power Cord Protection

– Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Continued to next page

English

3

Safety Precautions

IMPORTANT SAFETY INSTRUCTIONS

9. Lightning

– Unplug this apparatus during lightning storms or when unused for long periods of time.

10. Overloading

– Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

11. Object and Liquid Entry

– Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

12. Servicing

– Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

13. Damage Requiring Service

– Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

14. Replacement Parts

– When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

15. Safety Check

– Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

16. Wall or Ceiling Mounting

– This product should be mounted to a wall or ceiling only as recommended by the manufacturer.

17. Heat

– Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not place a flaming object, such as a candle or lantern, or near the product.

18. Power Lines

– An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

Notes:

Item 7 is not required except for grounded or polarized equipment.

Note to CATV system installer U.S.A. only

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system or the building, as close to the point of cable entry as practical.

Information on Disposal of Old Electrical and Electronic Equipment and Batteries (applicable for EU countries that have adopted separate waste collection systems)



Products and batteries with the symbol (crossed-out wheeled bin) cannot be disposed as household waste.



Old electrical and electronic equipment and batteries should be recycled at a facility capable of handling these items and their waste byproducts.

Contact your local authority for details in locating a recycle facility nearest to you.

Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

Notice: The sign "Pb" below the symbol for batteries indicates that this battery contains lead.

What the K-821DV Can Do



Various recording formats

Disc Playback

As well as music CDs, VCD/SVCD, DVD Video, and DVD VR, the system can also play discs containing audio files (MP3/WMA), movie files (ASF/MPEG1/MPEG2/DivX), and still image files (JPEG).



High-quality sound reproduction of iPod music

iPod Playback Function

With this system, the amplifier receives digital signals of iPod music as input. This realizes the reproduction of high-quality sound minimizing the deterioration of sound quality.



Supports for USB connection, analog input and digital input

External Input

The system supports the playback of a USB flash memory and USB mass storage class compliant digital audio player. In addition, as well as analog input terminals for cassette decks, the K-821DV also features a sampling rate converter compliant digital input terminal for digital tuners etc.



Choose your favorite audio quality

Digital Signal Processor Function

This includes "TONE", which you can use to select detailed audio characteristics for the low-, mid- and high-range bands, as well as "D-BASS" which allows you to adjust super-bass effect.

Contents



To ensure safety, read the items by this mark carefully.

Before Using the System

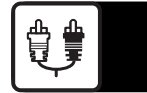
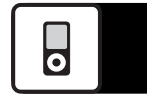
Be sure to read these precautions.

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Procedures by Input Source ▶▶ P.29

This chapter explains how to connect and use the system with the different input sources.

- CD/ DVD
- Using Status Bar and Menu Bar
- Receiving Radio Broadcasts
- RDS (Radio Data System)
- iPod
- USB
- External Components
- D.AUDIO



Audio Settings ▶▶ P.69

This chapter explains how to tailor the system to your audio preferences.

- DTS Surround Sensation
- CONEQ (Acoustic Equalizer)
- Digital Signal Processor
- Supreme EX
- BALANCE



Component Settings ▶▶ P.79

This chapter explains how to select the settings for the system.

- Setting the Timer
- Display Settings
- Setting the System Clock
- Auto Power Save
- Setting the Power Supply
- TV AUDIO IN
- Activating the Subwoofer Sound
- System Settings



Maintenance ▶▶ P.97

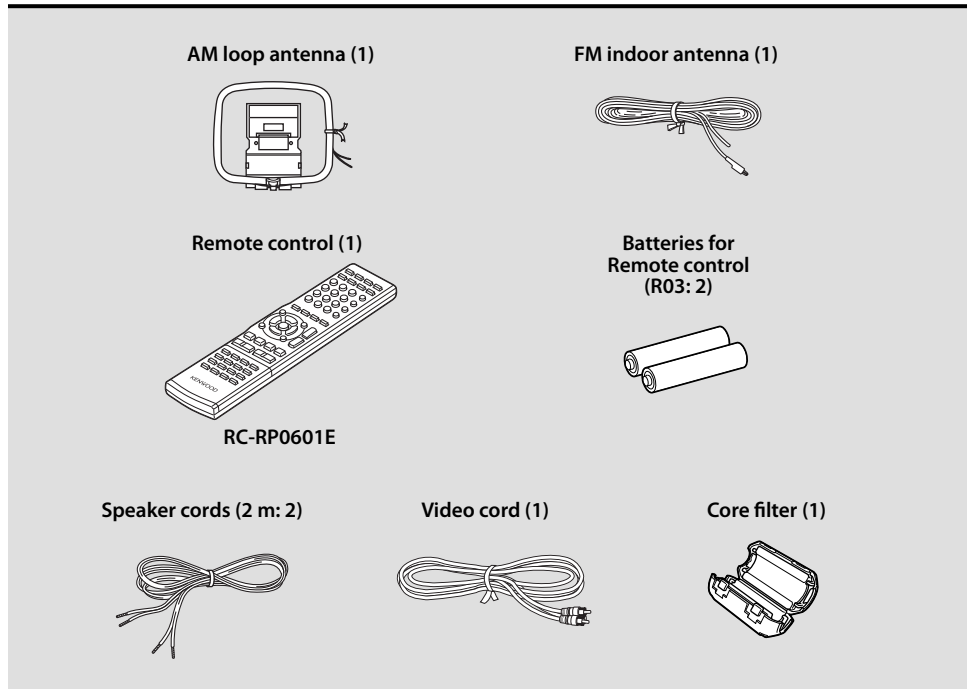
This chapter explains how to store and maintain your system so that it continues to give pleasure for many years to come.

- Messages
- Troubleshooting
- Glossary of Terms
- Care and Storage
- Specifications



Accessories

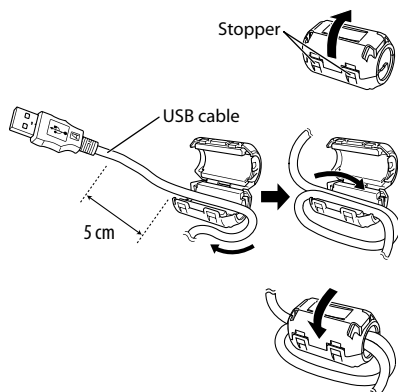
Check that all accessories are present in the package.



If any accessories are missing, or if the unit is damaged or fails to operate, notify your dealer immediately. If the unit was shipped to you directly, notify your shipper immediately. Kenwood recommends that you retain the original carton and packing materials in case you need to move or ship the unit in the future. Keep this manual handy for future reference.

CAUTION
How to attach the core filter to the USB cable

Attach the core filter to the System end of the USB cable to reduce interference.



1. Release the stopper of the core filter.
2. Run the cable through the core filter, and wind the cable firmly once inside the cutout of the core filter as shown in the illustration.
NOTE: Do not damage the cord by applying excessive force when winding.
3. Close the core filter until it clicks shut.

Installing the System

Notes on installing the system

- Always install the system on a flat, stable surface. When installing the system on a stand of some sort, be sure to check the strength of the stand.
- The magnets used in the speakers may cause color irregularities on TV or PC screens. Do not set up the speakers too close to a TV or PC.



Left speaker



Main unit



Right speaker

CAUTION

Observe the following cautions when installing the system. Insufficient heat radiation may build up internal heat and cause a malfunction or fire hazard.

- Do not place any object on the system that may hinder heat radiation.
- Do not place the system upside-down or lay it on its side.
- Do not cover the system with a cloth or place it on a carpet or blanket.
- Do not place the system in a narrow space that hinders the ventilation.
- Leave the spaces specified below around the cabinets of the main unit.

Top panel: 50 cm or more

Side panel: 10 cm or more

Back panel: 10 cm or more

Install the system so the power outlet is easily accessible, and unplug the power cord from the power outlet immediately in case of any trouble.

Note that the power supply to the system is not shut down completely by simply setting the power switch to OFF.

To shut down the power supply completely, unplug the power cord.

Getting the best acoustic effect

The sound will vary depending on the positioning of the speakers. To get the best possible sound quality, note the guidelines below.

- Ensure that the areas around the left and right speakers are as identical as possible. Set up the left and right speakers away from the wall and hang thick curtains on any windows to minimize echoes or reverberation.
- Place the left and right speakers as far apart as possible.
- Position the speakers at the same height as your ears when you are using the system.

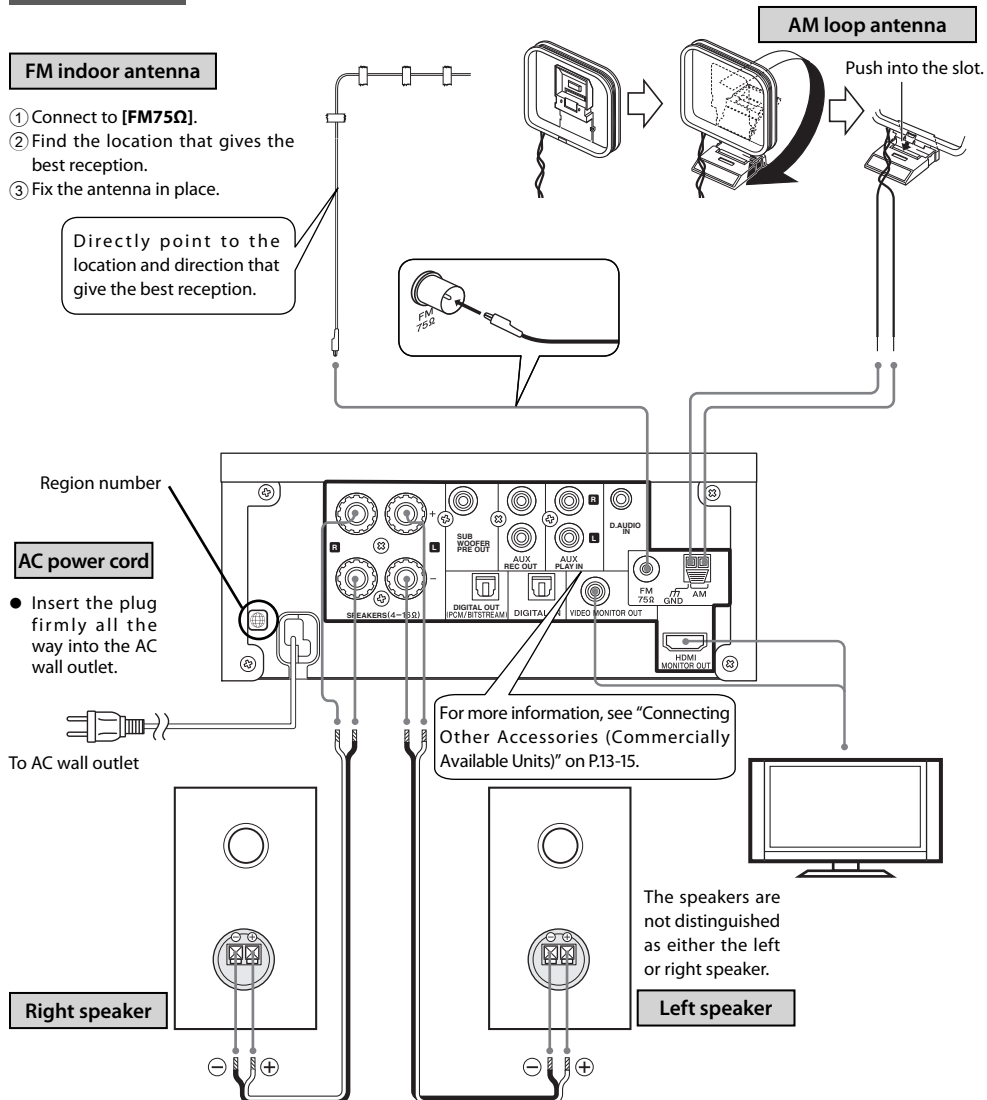
Connecting the System

Main Connections

Ensure that all the cords are securely connected. Loose or incomplete connections may result in noise interference or no sound at all.

Caution for Connection

Do not plug the AC power cord into an AC wall outlet until all the connections are completed. Before disconnecting any cords or cables, always turn the system off and unplug the power cord from AC wall outlet.



⚠ Caution for outdoor antenna installation

Since antenna installation requires skill and experience, always consult your dealer before installation. The antenna should be located away from power lines. If the antenna falls over, contact with a power line creates the risk of electric shock.

Microcomputer malfunctions

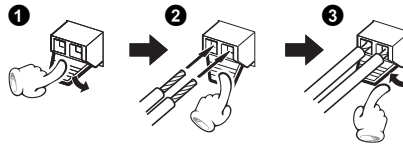
If the system is connected correctly and still does not operate normally or shows display errors, reset the microcomputer. (P.103)

Connecting the AM loop antenna

The antenna supplied with the system is for indoor use. Place it as far as possible away from the main unit, your TV set, the speaker cords and the power cord and point it in the direction that gives the best reception.

● **Connecting the antenna cord**

As shown on the right, connect the AM antenna cord [AM] and [GND] terminals.



Connecting the FM indoor antenna

The antenna supplied with the system is a basic antenna for indoor use. For stable signal reception, the use of an outdoor antenna (commercially available) is recommended. To connect an outdoor antenna, first remove the indoor antenna.

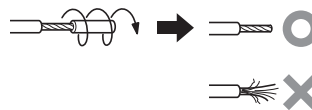
Connecting the speakers

Notes on connecting the speaker cords

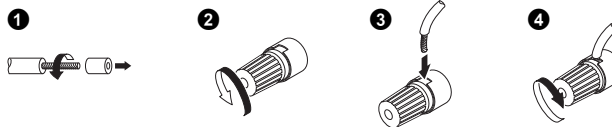
Never short-circuit the positive (+) and negative (-) ends of the speaker cords. (Do not touch the + and - cords together.) Mistakenly reversing the positive and negative polarity will result in unnatural sound and unclear sound.

● **Preparing the ends of the speaker cords**

Twist the plastic sleeve on the end of the cord as you pull it off.



● **Connecting the speaker cords to the main unit**



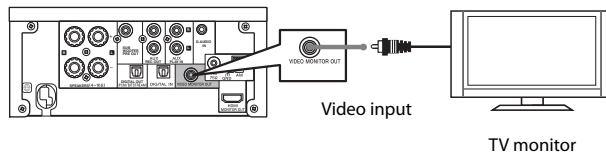
● **Connecting the speaker cords to the speaker**



Connecting TV Monitor

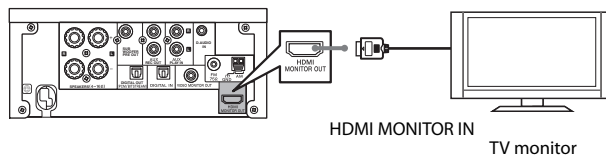
Using video cable

Connect the video input terminal on a TV monitor to the **[VIDEO MONITOR OUT]** terminal on the rear panel of the main unit using the video cord supplied with the system.



Using HDMI cable

Connect the HDMI terminal on a TV monitor to the **[HDMI MONITOR OUT]** terminal on the rear panel of the main unit.



- An HDMI/DVI converter cable is necessary to connect a TV monitor with a DVI input terminal. The TV monitor also needs to be compatible with HDCP (High-bandwidth Digital Contents Protection). Note that the video may be unable to be monitored depending on the combined components.
- Use an HDMI-certified category 2 cable (High Speed HDMI™ Cable) for the connection.
- If the video and/or audio are not output normally, turn all of the connected components off then on, and try again.

■ To select TV format

- In case of using video cable
 1. Press the **[▲]** key to remove the disc from the unit, then close the tray.
 2. Press and hold the **[■]** key on the remote control for more than 2 seconds to be able to select a TV format (PAL/NTSC).

PAL ◀▶ NTSC

- In case of using HDMI cable
 - A format is automatically selected for your TV format.
 - During HDMI cable connection, the format of the composite video output is adjusted to the connected TV monitor.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.

Connecting Other Accessories (Commercially Available Units)

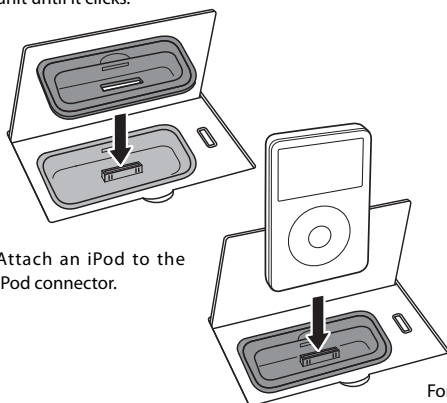


- When connecting a related system component, read the instruction manual that comes with the component too.
- Ensure that all the cords are securely connected. Loose or incomplete connections may result in noise interference or no sound at all.

iPod

Attach the Dock adapter supplied with the iPod to the system.

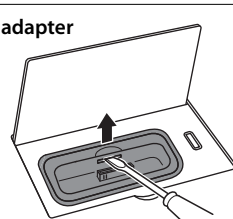
Open the cover on the main unit, and then push down the Dock adapter into the unit with its slit facing toward the unit until it clicks.



Attach an iPod to the iPod connector.

● To remove the Dock adapter

Insert a flat-blade screwdriver or a similar tool into the slit of the Dock adapter, and then remove it upward.



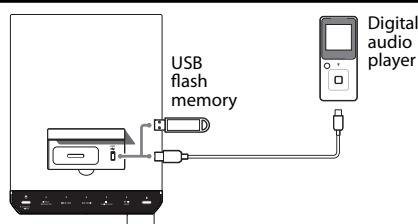
- You cannot attach an iPod to the system if it is in a cover, case, or with other accessories. Always remove it.
- Connecting an iPod to the system without using the Dock adapter may deteriorate or damage the connector. Always use the Dock adapter.
- Keep the iPod on a straight position while connecting/disconnecting it.
- Once the iPod is connected, it can be charged.

For more information on which models can be connected, see P.60.

USB

Connect USB flash memory or USB mass storage class compliant digital audio players to the [USB] port after opening the cover on the main unit.

- Depending on the device being connected, it may take some time for the system to recognize it.
- Some USB devices may not be recognized or cannot play certain files.
- With some models, a USB connection mode selection screen will appear. Select "Storage Mode".

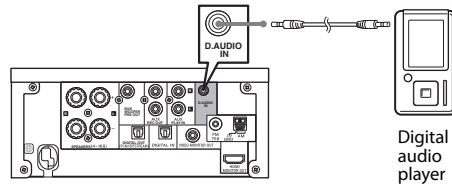


Connecting Other Accessories (Commercially Available Units)

D.AUDIO IN

Connect digital audio players to the **[D.AUDIO IN]** terminal on the rear panel of the main unit.

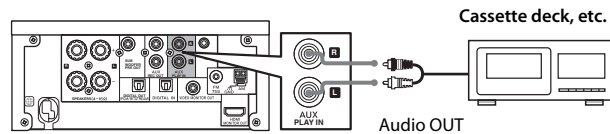
- If you connect a Kenwood player that supports digital audio link using the dedicated cable PNC-150 (sold separately), you can control the player from the main unit and the remote control. (P.66) Other portable players can be connected using a 3.5 mm stereo mini-plug cable (commercially available).
- When you are not using the digital audio player, unplug the mini-plug cable from the main unit.



AUX IN

Connect the audio OUT terminals on components such as cassette decks to the **[AUX IN]** terminal on the rear panel of the main unit.

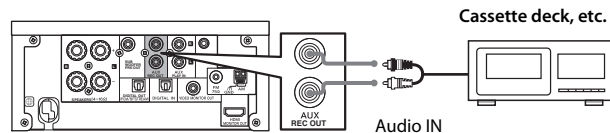
- **[AUX IN]** inputs an analog audio signal.



AUX REC OUT

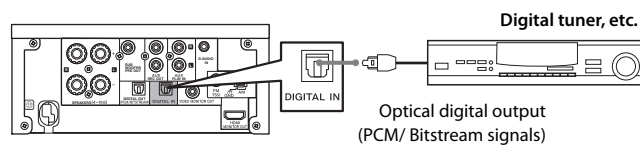
Connect the audio IN terminals on components such as cassette decks to the **[AUX REC OUT]** terminal on the rear panel of the main unit.

- **[AUX REC OUT]** outputs an analog audio signal.



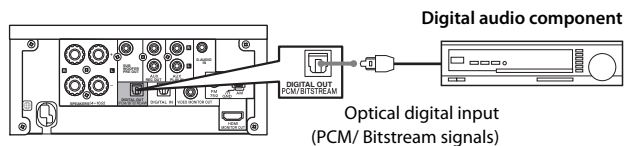
DIGITAL IN (OPTICAL)(PCM/ Bitstream signals)

Connect the optical digital output terminals on components such as digital tuners to the **[DIGITAL IN (OPTICAL)]** terminal on the rear panel of the main unit.



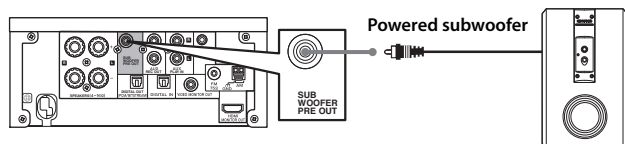
DIGITAL OUT (OPTICAL)(PCM/ Bitstream signals)

Connect the optical digital input terminals on a digital audio component to the **[DIGITAL OUT (OPTICAL)]** terminal on the rear panel of the main unit.



SUB WOOFER PRE OUT

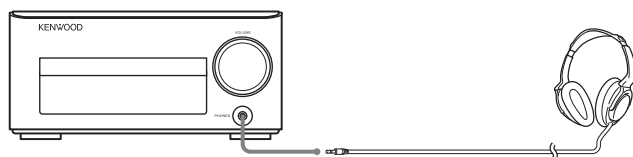
Connect a subwoofer with a built-in amplifier (such as the optional SW-40HT/ sold separately) to the **[SUB WOOFER PRE OUT]** terminal on the rear panel of the main unit. (P.90)



PHONES

Plug headphones equipped with a 3.5 mm stereo mini-plug into the **[PHONES]** jack on the front panel of the main unit.

A warning that excessive sound pressure from earphones and headphones can cause hearing loss.

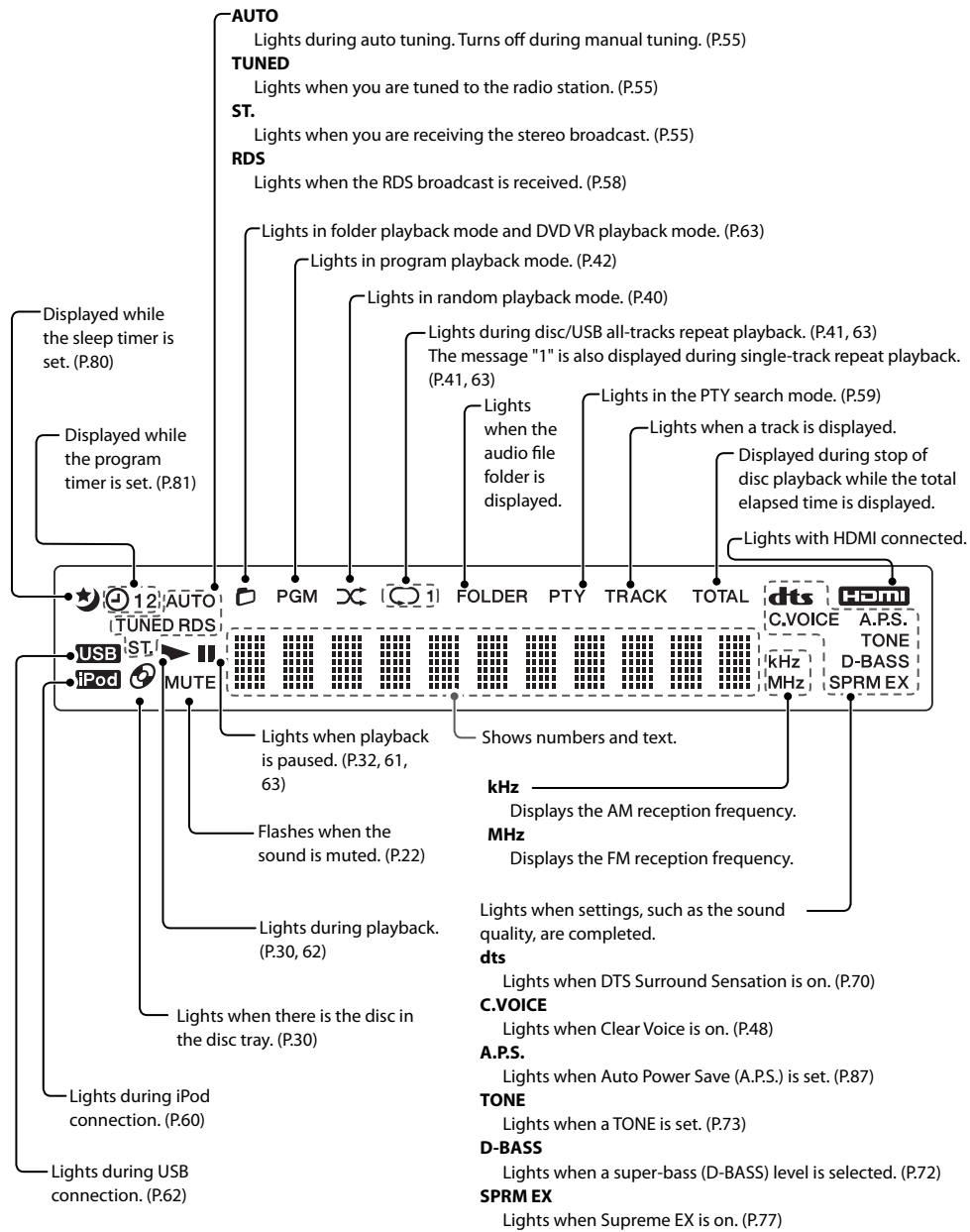


⚠ CAUTION

Excessive sound pressure from earphones or headphones can cause hearing loss.

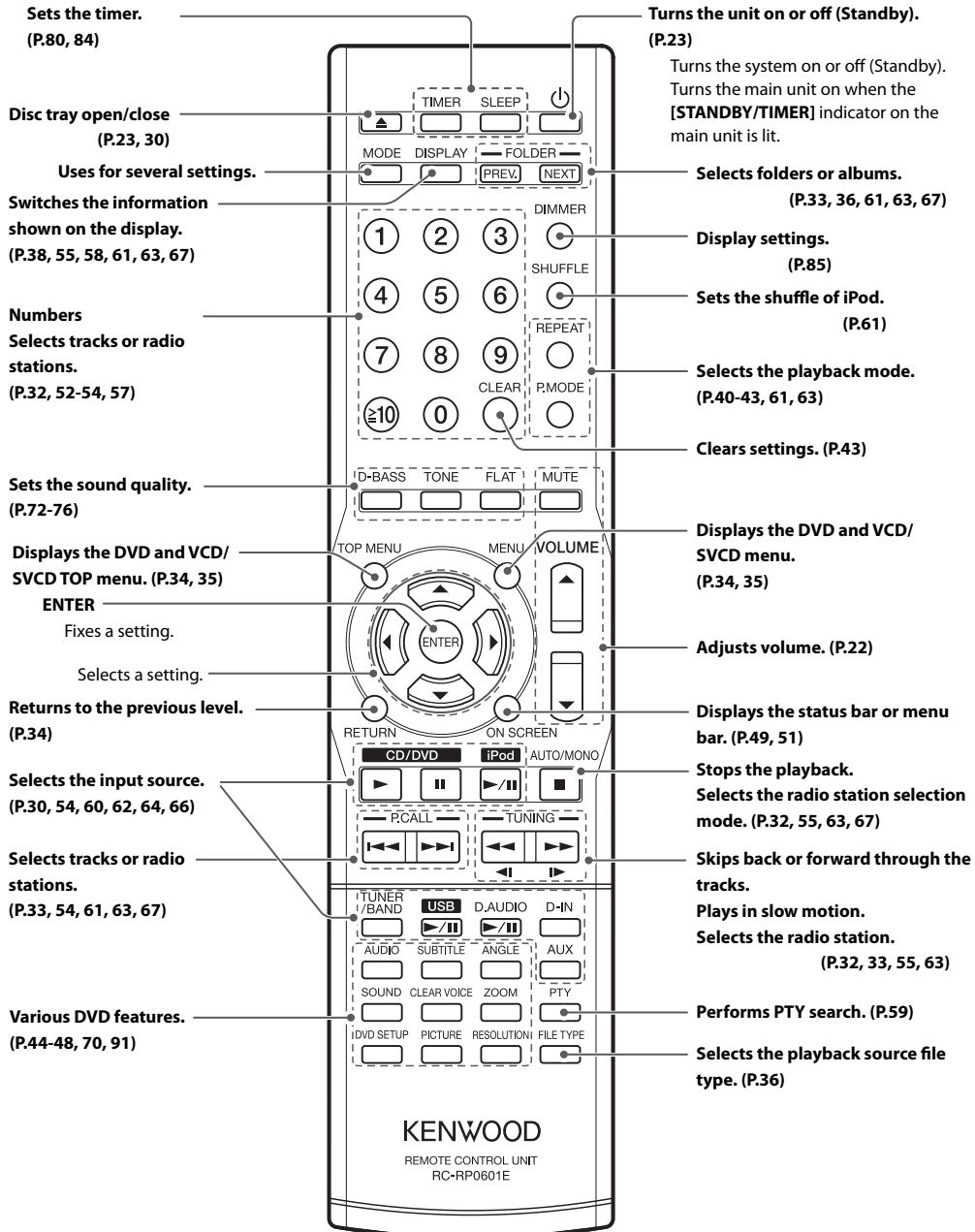
Display

Displays shown in this manual may differ from the actual displays.



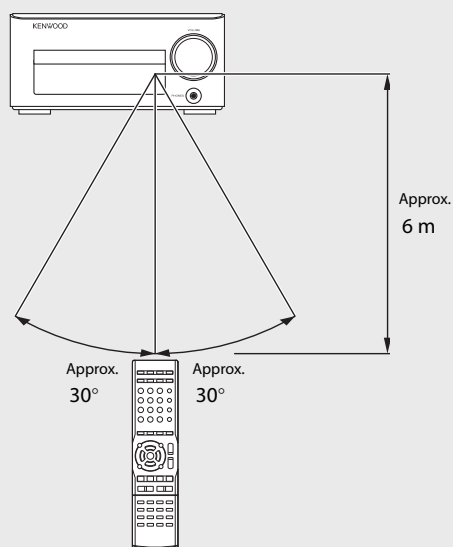
Remote control

Remote control keys with the same names as keys on the main unit have the same functions as the main unit keys.



Using the remote control

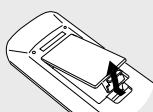
After plugging the main unit into an AC wall outlet, press the power [⏻] key on the remote control unit to turn the system on.
 After the system powers up, press the key for the function you want to use.
 Point the remote control at the remote sensor when using it.



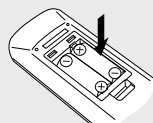
- The remote control may not operate correctly if direct sunlight or light from a high-frequency fluorescent lamp (such as an inverter type) is shining on the remote sensor. If this happens, move the system to a different location to avoid this type of malfunction.

Loading the remote control batteries

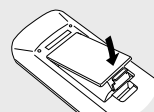
① Remove the battery cover.



② Load the AAA-size batteries supplied with the system.



③ Close the battery cover.



- Check the polarity of the batteries (+ -) when loading them.

- The batteries supplied with the system are for operational testing and may last only for a short time.
- When replacing the batteries, always load 2 new batteries.

CAUTION

Do not leave the battery near fire or under direct sunlight. A fire, explosion or excessive heat generation may result.

How to Use This Manual

Operation procedure

While this system can be controlled from either the remote control or the main unit, the explanations in this manual primarily describe operation procedures using the remote control.

Remote control keys used in the procedure

Display shown during or after an operation

- The displays shown in this instruction manual may differ from the actual displays.



CD/DVD

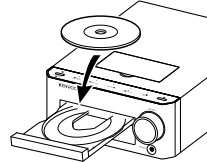
This section explains how to play a disc. As well as normal playback, you can use folder playback, random playback, repeat playback and program playback.

Playing a Disc

Insert and play the disc.

- If a disc is already inserted, simply press the [CD/DVD ▶] key to turn the system on and begin playback.

1 Press the [▲] key to open the disc tray and then insert the disc.

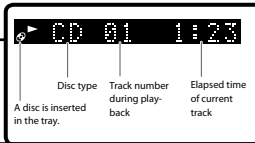


- Insert the disc that the labeled side faces upwards and the disc sits snugly in the tray.

2 Press the [▲] key to close the disc tray.

The "READING" message flashes while the unit is reading the information on the disc.

3 Press the [CD/DVD ▶] key.



- Track numbers may not display correctly while following types of discs are playing.
 - Discs recorded in Mix mode*
 - Discs recorded in multiple sessions
 - Discs recorded in mixed formats of CD-DA format and formats that are not music data
 - When playing a DVD, the menu screen may display on the TV screen first. In such case, follow the menu screen. (See P.34)
- *Mix mode combines the CD-DA format with audio files, such as MP3 and WMA.

Explanations of main unit procedures


Explanations of remote control procedures


Related functions that may also be helpful

Related Information

- Adjusting the Digital Audio Player Input Level → P58
- Audio Settings → P69 onwards

■ Operations during digital audio player playback





Playing the tracks in the previous/next folder

To go to the previous folder, press the [PREV.] key.
To go to the next folder, press the [NEXT] key.

- These functions may not work with some digital audio player models.

Skipping forward/back

Hold down the [◀◀] or [▶▶] key.
Hold down the [◀◀/▶▶] or [▶▶/▶▶] key.

Switching display contents

Press the [DISPLAY] key to shift the selection.

[D.AUDIO] Day/Clock

Pausing and resuming playback

Press the [D.AUDIO/II] key. Press the [▶/II] key.

Stopping playback

Press the [■] key. Press the [■] key.










Skipping tracks, skipping back, skipping to the start


Skip a track
Press the [▶▶] key. Press the [▶▶/▶▶] key.

Skip back to the previous track
Press the [◀◀] key 2 or more times in succession. Press the [◀◀/◀◀] key 2 or more times in succession.

Return to the start of the track
Press the [◀◀] key once. Press the [◀◀/◀◀] key once.

Operation icons

-  Explains the procedure for CDs.
-  Explains the procedure for the radio.
-  Explains the procedures for iPods.
-  Explains the procedures for USB devices.
-  Explains the procedures for external components.
-  Explains the procedure for digital audio players.
-  Explains how to set the sound quality.
-  Explains how to set up component units.
-  Explains how to carry out system maintenance.



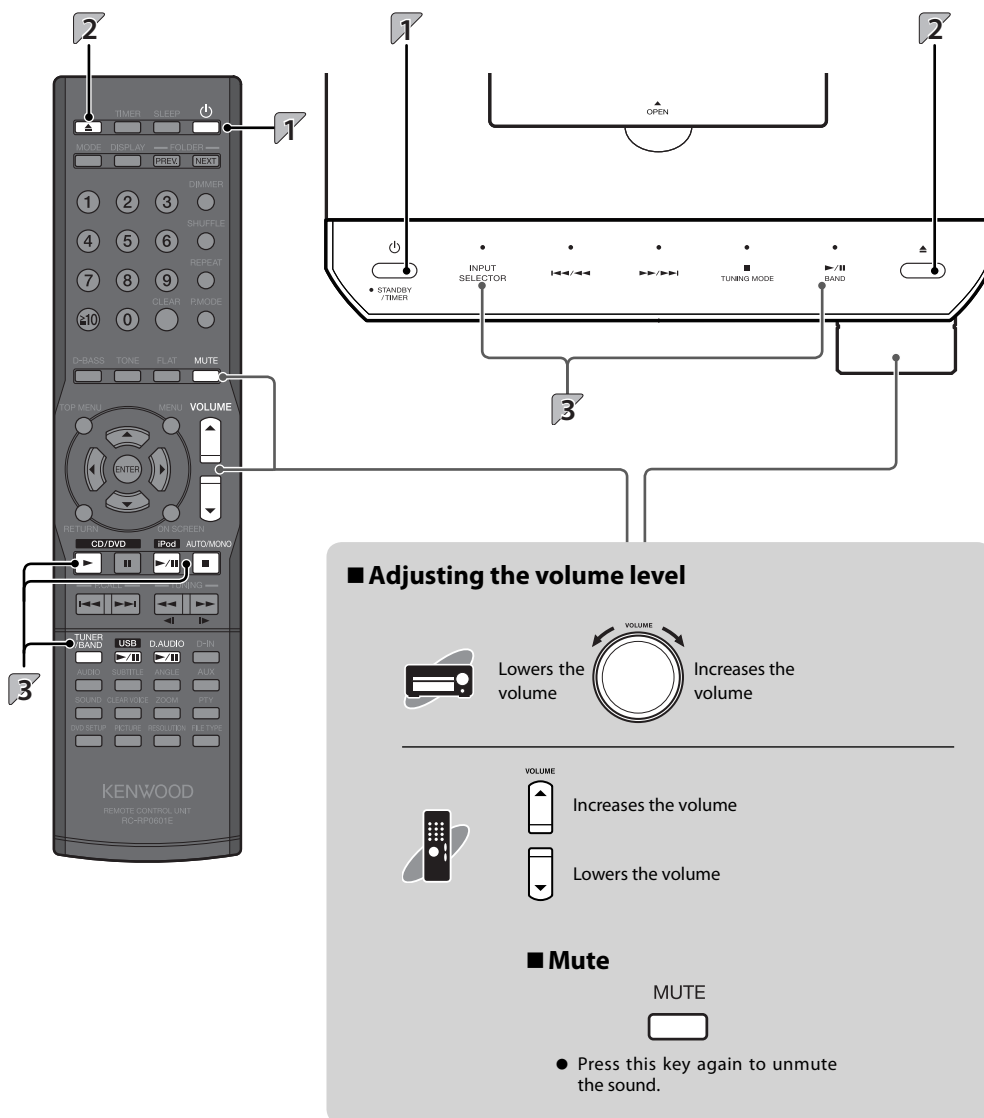
English 67

Basic Operation

This section describes some basic procedures for using the system, such as tuning the radio and playing audio/video from a CD/DVD, iPod, USB device, a digital audio player.

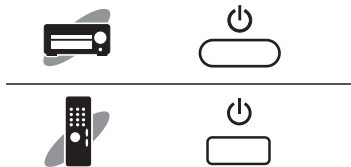
Preparations

Check the connections. (P.10-15)
Have the remote control ready. (P. 19)



1

Turn the system on (off).



- On remote control [D.AUDIO ▶/||], [TUNER/BAND], [CD/DVD ▶], [iPod ▶/||], [USB ▶/||], [D-IN], [AUX] key also turn on the power.
- Pressing the power [⏻] key when the system is on turns it off (Standby mode).

2

Insert a disc.

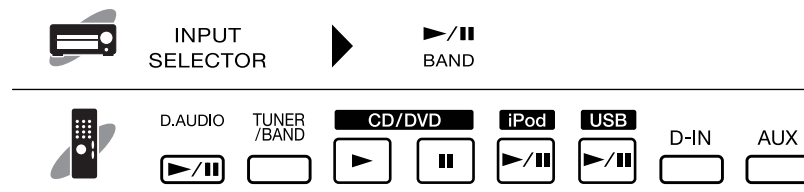
To use other components for playback, proceed to step 3.

Open the tray.	Insert a disc.	Close the tray.
 	<p>Insert a disc with the label side upwards.</p>	
<p>Press the [▲] key.</p>		

3

Start playback.




Press the Play/Pause key for the input source. See <Procedures by Input Source> (P.29-66) for details.



- You can select the sound quality you want. See <Audio Settings> (P.69-78) for details.

Important Information

Supported Media

Media	Icon in this manual	Explanation	
USB		<ul style="list-style-type: none"> Never connect any other device besides USB flash memory or a USB mass storage class compliant digital audio player to the [USB] terminal. Note that Kenwood will not be held liable for any losses related to malfunction, damage, or data loss due to connection of any other type of device. 	
			<ul style="list-style-type: none"> USB flash memory USB mass storage class compliant digital audio player
CD		<ul style="list-style-type: none"> You may not be able to play discs that do not conform to the CD standard, such as Copy Control CDs. This unit can play SVCDs, but some functions will not work. Discs must be finalized during writing. Depending on the equipment or recording mode used for recording onto a CD-R or CD-RW disc, and depending on the type of CD-R or CD-RW disc used, you may not be able to play the disc on this system. 	
			Commercially available music CDs
			VCD/SVCD
			CD-R/CD-RW discs recorded in CD-DA format MP3/WMA files recorded on CD-R/CD-RW discs
DVD		<ul style="list-style-type: none"> A Dual Disc is a two-sided disc combining a DVD side according to the DVD standard and a music side. The video content recorded on the DVD side can be played back. As the music side is not compatible with the Compact Disc (CD) standard, playback on this unit is not assured. This player cannot play back discs compatible with CPRM. CPRM is the abbreviation of Content Protection for Recordable Media, and it is a technique for copyright protection for recording media. Discs must be finalized during writing. This unit can play back DVD-R and DVD-RW discs recorded in the DVD VIDEO format and DVD+R and DVD+RW discs, but depending on the recording unit, the disc manufacturer, etc., playback sometimes may not be possible. 	
			DVD VIDEO
			DVD VR
			DVD-R/DVD-RW/ DVD-R DL DVD+R/DVD+RW/ DVD+R DL

Precautions when writing data to media

- Discs recorded in Packet Write mode and CDs recorded in UDF (Universal Disc Format) cannot be played.
- When writing data to a disc, always close the session or finalize the disc. The disc may not play properly if you do not close the session or finalize the disc.
- Depending on the specifications of the writing software used, the recorded folder names and file names may not be displayed correctly.
- Playback for multi-session discs or discs that contain large numbers of folders may take longer to begin than for normal discs.
- If you write audio files and music CD tracks (CD-DA format) to the same disc, the disc may not play correctly.
- When a disc contains different types of file (audio, still image, and video), select one of them to play the disc. Audio is selected as the default setting.
- Before writing audio, still image, and video files to a disc, check that the files play back correctly on the PC being used to write the files.
After you finish writing, check that the written files are played back correctly.
- Use the correct file extensions in the names of files. Files without file extensions will not play. Also, do not use incorrect extensions for files that cannot be played by the system.
For more information on file extensions, see <Supported Files> on the next page.

Handling Discs

Handling precautions

Hold a disc taking care not to touch the played surface.

Discs playable on the system

This system can play back a CD (12 cm, 8 cm), CD-ROM, CD-R, CD-RW, DVD VIDEO, DVD-R, DVD-RW or the audio part of a CD-EXTRA disc.



A disc without these markings may be unable to be played back correctly.

For DVD VIDEO, the system can play back a disc only with the same region number as the system or "ALL".
The region number of the system can be found on the rear panel of the main unit. (See P.10)

Notes on CD-ROM/CD-R/CD-RW/DVD-R/DVD-RW/ DVD+R/DVD+RW discs

If the disc being used has a printable label surface, the label surface may cause sticking that makes it impossible to remove the disc from the system. To prevent malfunction of the system, do not use such a disc.

Cautions on CD/DVD discs

The disc rotates at a high speed during playback. Never use a cracked, chipped or greatly warped disc. Otherwise, damage or malfunction of the player may result.
Also, do not use a disc with a non-circular shape as this may result in malfunction.

Important Information

Supported Files

On this system, you can play the audio file types (MP3, WMA, AAC), movie file types (ASF, MPEG1/MPEG2, DivX), and still image file types (JPEG).

MP3 files (disc/USB)

File format:

MPEG 1 Audio Layer 3
MPEG 2 Audio Layer 3
MPEG 2.5 (MPEG 2 Audio Layer 3 Lower sampling rate)

Extension: .mp3**Sampling frequency**

MPEG 1 Audio Layer 3: 32 / 44.1 / 48 kHz
MPEG 2 Audio Layer 3: 16 / 22.05 / 24 kHz
MPEG 2.5: 8 / 11.025 / 12 kHz

Bit rate

MPEG 1 Audio Layer 3: 32 – 320 kbps
MPEG 2 Audio Layer 3: 8 - 160 kbps
MPEG 2.5: 8 – 160 kbps

WMA files (disc/USB)

File format:

Windows Media™ Audio 9 compliant

- Files created using functions in Windows Media™ Player 9 or later cannot be played.
 - WMA Professional
 - WMA Lossless
 - WMA Voice

Extension: .wma

disc **Sampling frequency:** 32/ 44.1/ 48 kHz

Bit rate: 16 - 320 kbps

USB **Sampling frequency:** 32/ 44.1/ 48 kHz

Bit rate: 5 - 384 kbps

AAC files (USB only)

File format:

MPEG-4 AAC (created in iTunes™ 4.1 to 8.2)

Extension: .m4a

Sampling frequency:

8/ 11.025/ 12/ 16/ 22.05/ 24/ 32/ 44.1/ 48 kHz

Bit rate: 8 - 384 kbps

- Files encoded using Apple's Lossless Encoder cannot be played.
- AAC files contained in a disc cannot be played.

JPEG file (disc only)

File format:

Baseline format
Extension: .jpg/.jpeg
Resolution: 8192×7680pixel

- Monochrome JPEG files cannot be played.

ASF file (disc only)

File format:

Simple Profile
Extension: .asf
Audio: G.726

MPEG1/MPEG2 file (disc only)

Extension: .mpg/.mpeg/.mod

Resolution:

720×576(25fps),	720×480(30fps),	352×576(25fps),
480×576(25fps)		
352×288(25fps),	352×480(30fps),	480×480(30fps),
352×240(30fps),		

Profile and level:

MP@ML(Main Profile at Main Level)

SP@ML (Simple Profile at Main Level)

MP@LL (Main Profile at Low Level)

Audio stream:

MPEG1 Audio Layer-2

Dolby Digital (MPEG2 file only)

DivX file (disc only)

File format:

Ver3/4/5/6

Extension: .avi/.div/.divx

CD Disc formats

ISO 9660 Level 1, ISO 9660 Level 2, Joliet

- "Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

- iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

- Windows Media is a trademark of Microsoft Corporation registered in the U.S. and other countries.

DVD Disc formats

ISO9660, Joliet
UDF Bridge(UDF1/ISO9660)

Number of file limits

CD/DVD Max. files/folders: 4000 in total
Max. folders: 99
Files per folder: 999

USB FAT16 Max. root folders: 65534
Max. sub-folders: 512
FAT32 Max. root folders: 65534
Max. sub-folders: 65536

Maximum number of displayable characters

disc File names: 28
Folder names: 28
Tag display (Title/Album/Artist): 31
Available ID3 tags: 1.0/ 1.1/ 2.2/ 2.3

USB File names: 32 (including file extension)
Folder names: 32
Tag display (Title/Album/Artist):
30 (ID3 Tag ver1.x)/ 32 (ID3 Tag ver2.x)
Available ID3 tags: 1.0/ 1.1/ 2.2/ 2.3/ 2.4

- This system is capable of displaying alphanumeric characters. Other character types are displayed as asterisks (*).

Other notes

- Note that even where files comply with the above standards, playback may fail due to factors such as the disc characteristics or recording conditions.
- Playback also may fail depending on the specifications of the encoding software or the settings used for encoding.
- DRM (Digital Rights Management) files cannot be played.
- Audio files encoded using VBR (Variable Bit Rate) may use bit rates that fall outside the supported range. Audio files with bit rates outside the supported range cannot be played.
- Please backup files to be used in the system. Certain conditions while using a USB device can cause contents stored on the USB device to be lost. Please note that Kenwood will not be held liable for any losses arising out of loss of stored data.

Notes on transporting or moving the system

Before transporting or moving this unit, take the following actions:

- ① Remove any disc from the unit.
- ② Press the **[CD/DVD ►]** key and check to make sure that the message "NO DISC" appears on the display.
- ③ Wait a few seconds and then turn the system off.
- ④ If there are any other components connected to the system, check to make sure they are all turned off before disconnecting the cables.

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- Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS and the Symbol are registered trademarks & DTS Digital Surround and the DTS logos are trademarks of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved. Manufactured under license from DTS Licensing Limited. DTS and the Symbol are registered trademarks, & DTS Surround Sensation | Speaker and the DTS logos are trademark of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.

Important Information

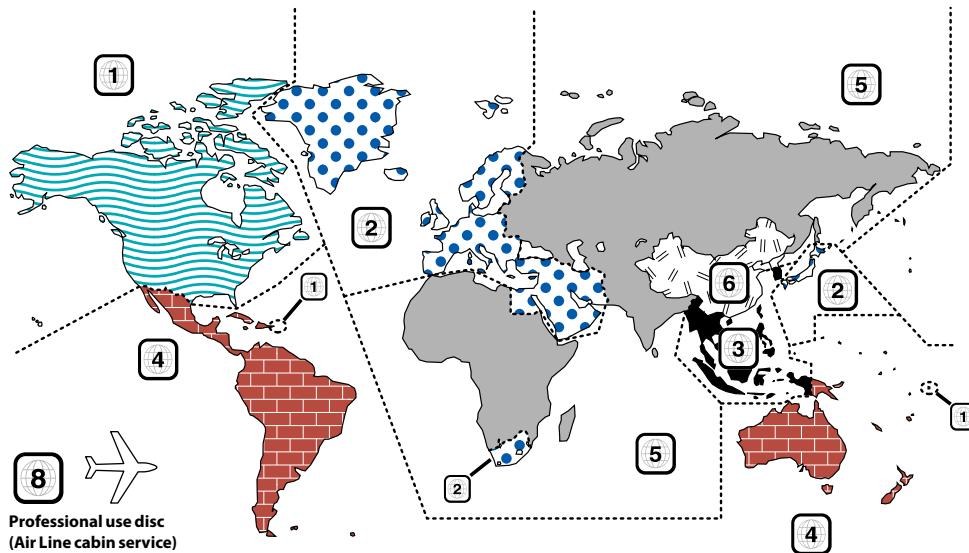
Region codes

Every player of this model has a certain region code assigned to it based on the country where the player is used. When the player is used to play back DVD VIDEO discs, it can only play the DVD VIDEO discs carrying the region codes matching the region code of the player.

The region code for this player is described on the rear panel of the player.


■ Region codes in the world

The DVD players are given a region code according to the country or area it is marketed, as shown in the following map.



■ Region codes of the DVD VIDEO discs that can be played with this player

- Europe: 
- Australia: 
- U.S.: 

This player can play back a DVD VIDEO disc which carries the corresponding code to the region code of the player shown above, a marking containing the region code of the player or the  marking. Even when a DVD VIDEO disc does not carry any indication of the region code, it may sometimes be unable to be played on this player due to certain restrictions.

Procedures by Input Source

This chapter explains the operation procedures for each input source.

For information on the sound and video quality settings and component settings regardless of the input source, see "Audio Settings" (P.69) and "Component Settings" (P.79). If an error is displayed or a problem arises, see "Maintenance" (P.97).

CD/DVD

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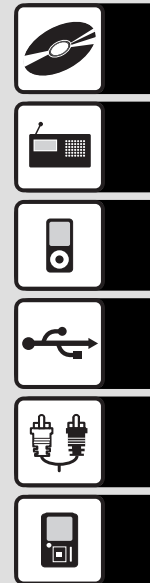
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D.AUDIO

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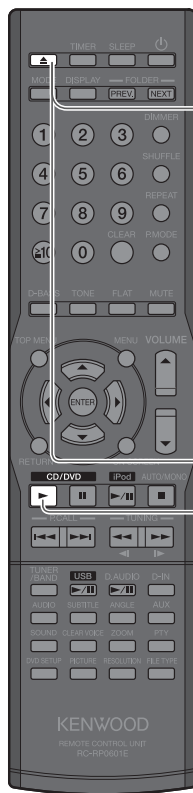
CD/DVD

This section explains how to play a disc. As well as normal playback, you can use folder playback, random playback, repeat playback and program playback.

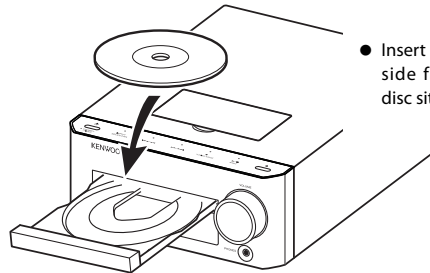
Playing a Disc

Insert and play the disc.

- If a disc is already inserted, simply press the [CD/DVD ▶] key to turn the system on and begin playback.



1 Press the [▲] key to open the disc tray and then insert the disc.



- Insert the disc that the labeled side faces upwards and the disc sits snugly in the tray.

2 Press the [▲] key to close the disc tray.

The "READING" message flashes while the unit is reading the information on the disc.

3 Press the [CD/DVD ▶] key.



A disc is inserted in the tray.

Disc type Track number during playback Elapsed time of current track



- Track numbers may not display correctly while following types of discs are playing.
 - Discs recorded in Mix mode*
 - Discs recorded in multiple sessions
 - Discs recorded in mixed formats of CD-DA format and formats that are not music data
- When playing a DVD, the menu screen may display on the TV screen first. In such case, follow the menu screen. (See P.34)

*Mix mode combines the CD-DA format with audio files, such as MP3 and WMA.

CD/DVD



■ Display while playing

CD

VCD/SVCD

▶ CD 01 1:23

Disc type Track number Playing time

▶ VCD01 1:23

Disc type Track number Playing time

DVD VIDEO/DVD VR

MP3/WMA/ASF/MPEG1/MPEG2/DivX

▶ C01 1:23

Chapter number Playing time

▶ T001 1:23

Track number (File number) Playing time



- You can change the display content by pressing the **[DISPLAY]** key. (See P.38)
- For the track number (file number) while playing a file, see P.37.

■ On-screen guide

The following icons are displayed on the TV screen as the operational guidance.

- You can choose to hide the on-screen guide with the system settings. (See P.95)



Play



Pause



Skipping forward/back



Play in slow motion (back/forward)



Other angle(s) available (→P.44)



Other audio channel(s) available (→P.44)



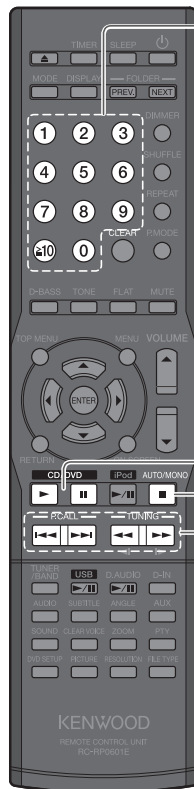
Other subtitle(s) available (→P.44)



The operation is not available for this disc or file.

English 31

■ Operations during disc playback



Specifying a track/chapter number

CD/VCD(PBC off)/SVCD(PBC off)/DVD VIDEO/DVD VR/MP3/WMA/JPEG/MPEG1/MPEG2

To play the 3rd track/chapter, press the **[3]** key.

To play the 17th track/chapter, press the **[≥10]**, **[1]**, and then **[7]** key.

To play the 123rd track/chapter, press the **[≥10]**, **[≥10]**, **[1]**, **[2]**, and then **[3]** key.

Pausing and playback

CD/VCD/SVCD/DVD VIDEO/DVD VR/MP3/WMA/JPEG/MPEG1/MPEG2

Press the **[CD/DVD II]** key.

- Press the **[CD/DVD ▶]** key to restart the playback.

Stopping playback

Press the **[■]** key.

DVD VIDEO/DVD VR/VCD/SVCD

When you stop playback by pressing the **[■]** key, the track/chapter being played is stored and pressing the **[CD/DVD ▶]** key restarts playback from the beginning of the point you stopped playback. (Resume function)

- The Resume function also works if you switch to another input source during playback.
- The Resume function is released if you press the **[■]** key twice.

Skipping forward/back

CD/VCD/SVCD/DVD VIDEO/DVD VR/MP3/WMA/JPEG/MPEG1/MPEG2

- Hold down the **[◀◀]** key or **[▶▶]** key.
- The playback speed is changed each time you press the **[◀◀]** or **[▶▶]** key.

To restore the original speed, press the **[CD/DVD ▶]** key.

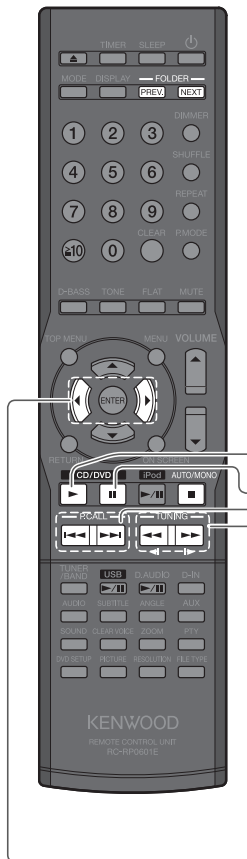
- For VCD/SVCD, press the **[I◀◀]** key to turn the Playback Control (PBC) on while the playback is stopped and the track number 1 is selected. When the PBC is on, press the **[▶▶I]** key to turn it off while playback is stopped.



- For VCD/SVCD, press the **[TOP MENU]** key or tray open/close key to turn the PBC on.

Related Information

- Audio Settings → P.69 onwards



Skipping tracks/chapters, skipping back, skipping to the start

CD/VCD/SVCD/DVD VIDEO/DVD VR/MP3/WMA/JPEG/MPEG1/MPEG2

- To skip to the next track/chapter: Press the [▶▶I] key.
- To return to an earlier track/chapter: Press the [I◀◀] key 2 or more times in succession.
- To return to the beginning of a track/chapter: Press the [I◀◀] key once.

Playing in slow motion

DVD VIDEO/DVD VR/VCD/SVCD

- Press the [◀◀] or [▶▶] key while playback is paused.
- The playback speed is changed each time you press the key.
- Press the [CD/DVD II] key to pause and the [CD/DVD ▶] key to return to normal playback.
- Audio is not played while playing in slow motion.
- For VCD/SVCD and DVD VR, only playing forward is possible in slow motion.

Frame advancing

DVD VIDEO/DVD VR/VCD/SVCD

- Press the [CD/DVD III] key repeatedly while playback is paused.

Going forward/back about every 5 minutes

MPEG1/MPEG2/DivX

- Press the [◀] or [▶] key.
- This navigation is limited to within the same file.



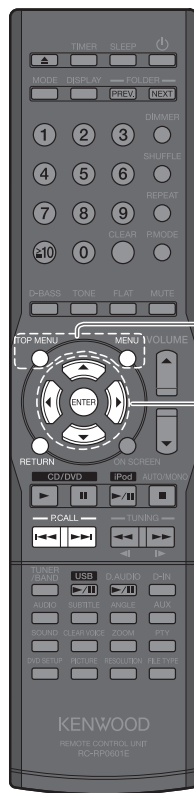
MP3/WMA/JPEG/ASF/MPEG1/MPEG2/DivX

- Press the [NEXT] key if you want to play tracks in the next folder, or press the [PREV.] key if you want to play tracks in the previous folder.

Selecting from the Menu

When the disc contains the menu screen, display the menu screen and play the disc.

■ DVD VIDEO and VCD/SVCD



1 Press the [TOP MENU] or [MENU] key.

The menu screen of the disc is displayed.

2 Press the [▲], [▼], [◀], and [▶] keys or number keys to select the title to play.

- For VCD/SVCD, only the number keys are available.

3 Press the [ENTER] key.



- For VCD or SVCD, the [TOP MENU] or [MENU] key may not work in step 1. In such case, press the [RETURN] key 1 or 2 times.
- If the menu screen of the VCD or SVCD consists of more than 1 page, press the [◀◀] or [▶▶] key to move across the pages.



■ DVD VR

1 Press the [TOP MENU] or [MENU] key.

[TOP MENU]: Displays the original program.
[MENU]: Displays the playlist.

● Original program

No	Date	Ch	Time	Title
1	08/03/08	L 1	0:15 pm	La fleur
2	08/09/09	L 1	11:05 pm	The last struggle
3	08/18/09	L 1	8:17 am	free flyer
4	08/20/09	L 1	7:47 am	BOOM!
5	08/25/09	L 1	7:38 pm	Mr. Lawrence
6	08/28/09	L 1	2:20 pm	Satisfy U

Title name

Title started at

Channel information

Recorded on (DD/MM/YY)

● Playlist

No	Date	Chap	Length	Title
1	08/03/08	2	0:23:24	Nobita G.
2	08/15/09	4	1:04:39	CDJ
3	08/24/09	13	0:41:26	Secret Garden
4	08/27/09	17	0:09:08	S. Walker

Total playing time of title

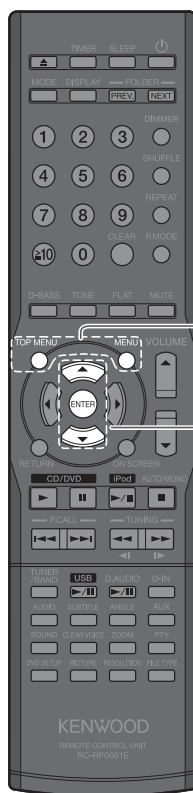
Chapters in title

Recorded on (DD/MM/YY)

2 Press the [▲] or [▼] key to select the title to play.

3 Press the [ENTER] key.

- When you select a title from the original program, the selected title and subsequent ones are played sequentially.
- When you select a title from the playlist, only the selected title is played.



CD/DVD

Playing a File in the Disc

MP3/WMA/JPEG/ASF/MPEG1/MPEG2/DivX

Display the folder menu and select to play a file recorded in the disc.

1 Follow the steps 1 - 3 in "Playing a Disc".

2 Press the [■] key.

The folder menu is displayed on the TV screen.

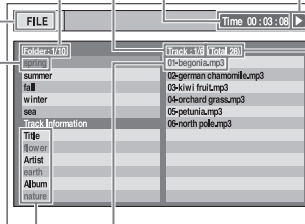
"FILE" is displayed.

Current folder number/Total folders in the disc

Current track (file) number/Total tracks (total files) in the current folder

Elapsed time of the current track (MP3/WMA/WAV file only)

Playback status



Total tracks (total files) in the disc

Current track (file)

Tag information (MP3/WMA file only)

Current folder

3 Press the [▲], [▼], [◀], or [▶] key to select a folder and a track.

- You can also use the [PREV.] or [NEXT.] key to select a folder.
- You can also use the number keys or the [◀◀] and [▶▶] keys to select a track.

4 Press the [CD/DVD ▶] key.



- If the disc contains different types of file (audio, still picture, and video), press the [FILE TYPE] key to select the file type to play while playback is stopped. The file type changes as shown below each time you press the key.



- Slide show of JPEG files
JPEG files are played sequentially starting from the selected one.
- In the slide show, each file is displayed for about 3 seconds.
- Press the [ENTER] key to play only the selected file.

Related Information

- Supported Audio Files → P.26
- Audio Settings → P.69 onwards

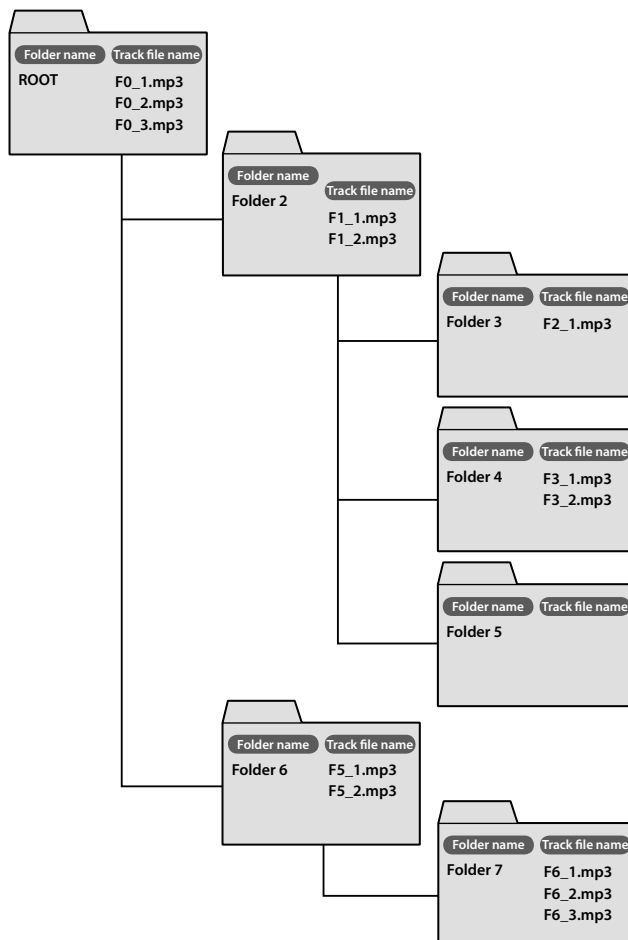
■ Playback sequence for folders and track files

MP3/WMA/JPEG/ASF/MPEG1/MPEG2/DivX

When you play a disc containing recorded files, the track files on the disc are played sequentially beginning with the files in the ROOT folder, as shown in the figure.



Sample folder configuration



■ Track file playback sequence

Track 1F0_1.mp3
 Track 2F0_2.mp3
 Track 3F0_3.mp3
 Track 4F1_1.mp3
 Track 5F1_2.mp3
 Track 6F2_1.mp3
 Track 7F3_1.mp3
 Track 8F3_2.mp3
 Track 9F5_1.mp3
 Track 10F5_2.mp3
 Track 11F6_1.mp3
 Track 12F6_2.mp3
 Track 13F6_3.mp3



- A folder that does not contain any tracks cannot be selected.
- Files are played back in accordance with the sequence where these files are recorded into the disc. You can specify the playback sequence by adding a number from "01" to "99" at the beginning of each folder and file name before you record the files onto the disc.

CD/DVD

Switching display contents

Press the **[DISPLAY]** key. The mode changes as shown below each time you press the key.

CD

- During PLAY/PAUSE



- During STOP



VCD/SVCD

- During PLAY/PAUSE



- During STOP

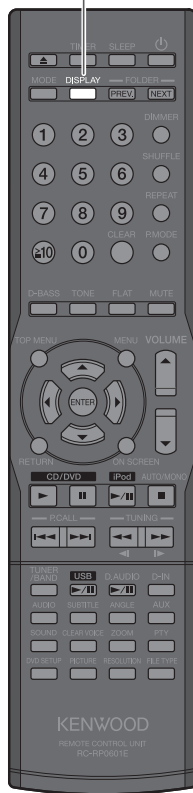


DVD VIDEO

- During PLAY/PAUSE



- During STOP



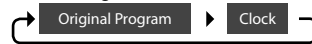


DVD/VR

- For Original Program
 - During PLAY/PAUSE

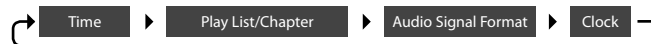


- During STOP



- For Playlist

- During PLAY/PAUSE

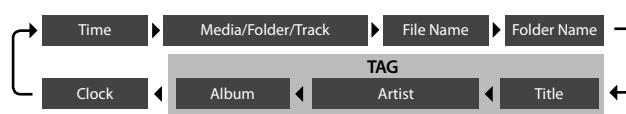


- During STOP



MP3/WMA/JPEG/ASF/MPEG1/MPEG2/DivX

- During PLAY/PAUSE



TAG information is displayed only for MP3/WMA.

- During STOP



Random Playback Mode

CD/VCD/SVCD/DVD VIDEO/MP3/WMA

This mode plays the tracks in the disc or in a folder in a random sequence.

- If the disc is already playing, press the [■] key to stop playback.

1 Press the [P.MODE] key to select the random playback mode.

The mode changes as shown below each time you press the key.

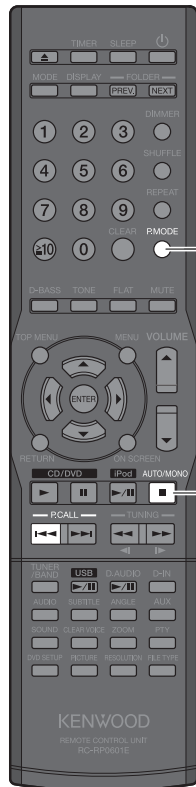


■ To cancel random playback mode

Press the [■] key to stop the playback, and then press the [P.MODE] key so that "PGM" is no longer displayed.



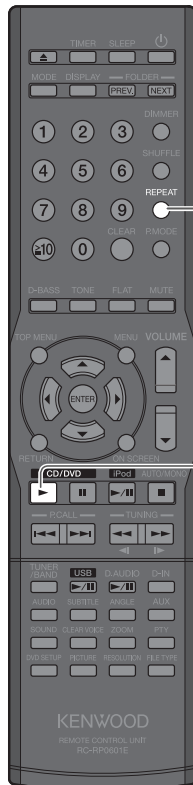
- Pressing the [◀◀] key skips back to the beginning of the track being played.



Repeat Playback Mode

CD/DVD VIDEO/DVD VR/MP3/WMA/JPEG/MPEG1/MPEG2

This mode plays the tracks on a disc repeatedly.



1 Press the [CD/DVD ►] key to play the tracks you want to repeat.

2 Press the [REPEAT] key to begin repeat playback.

The mode changes as shown below each time you press the key.



■ To cancel repeat playback mode

Press the [REPEAT] key so that "☺" is no longer displayed.



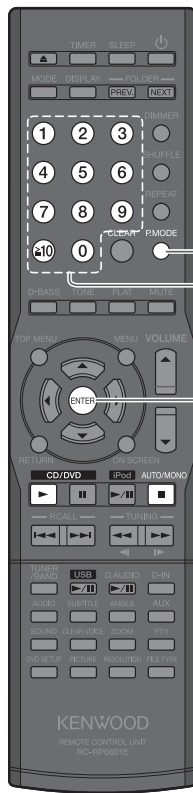
- If you press the [REPEAT] key during program playback, "☺" and "PGM" light up on the display and repeat playback begins for the selected tracks.
- If you press the [REPEAT] key during random playback to activate all track repeat playback, "☺" and "☒" light up on the display and random playback begins with different sequence once the current random sequence ends.
- You can also use the menu bar. You can specify A-B repeat playback from the menu bar. (See P.51)

Program Playback Mode

CD/VCD/SVCD/DVD VIDEO/MP3/WMA

You can select up to 99 tracks/chapters and play them in the order you like.

- Press the [CD/DVD ▶] key to switch the input source to disc. Playback begins when you switch the input source, so press the [■] key to stop playback.
- If the disc is already playing, press the [■] key to stop playback.



1 Press the [P.MODE] key to select program playback mode.

The mode changes as shown below each time you press the key.



2 Select the track/chapter for program playback.

- Use the number keys.
- If you press the [ENTER] key, you can register all the tracks in the current folder and all the chapters in the title.
- You can also use the program screen on the TV screen.

CD/VCD/SVCD

Select the track number.

P01+T10

When Track 10 selected as program track 1.

DVD VIDEO

Select the title.

P01+T03 C.....

When title number 3 is selected.

Select the chapter.

P01+T03 C02

When chapter 2 is selected.

CD/DVD

MP3/WMA

Select the folder.

PGM 58

When folder number 58 is selected.

Select the File number.

PGM 58T005

When file number 5 is selected.

■ Selecting with the Program Screen

Select the Folder/Title number.

No.	Folder/Title	Track/Chapter
1		
2		
3		
4		
5		
6		
7		
8		

Select the Track/Chapter number.

No.	Folder/Title	Track/Chapter
1		
2		
3		
4		
5		
6		
7		
8		

3 To select 2 or more tracks, repeat steps 1 and 2.

- You can select up to 99 tracks for playback. If you attempt to select more tracks, the message "PGM FULL" appears on the display.

4 Press the [CD/DVD ►] key to begin playback.

■ To cancel program mode

Stop playback and press the [P.MODE] key so that "PGM" is no longer displayed.

■ To remove a track from a program

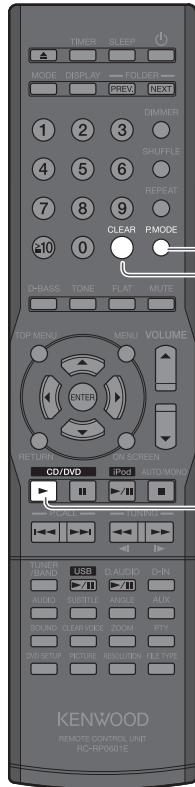
Stop playback and then press the [CLEAR] key. Each time you press the key, the last programmed track is cleared. Holding down the [CLEAR] key clears all the tracks in the program.

■ To add a track to the end of the program

If you are already playing a CD, stop playback and carry out steps 1 and 2.



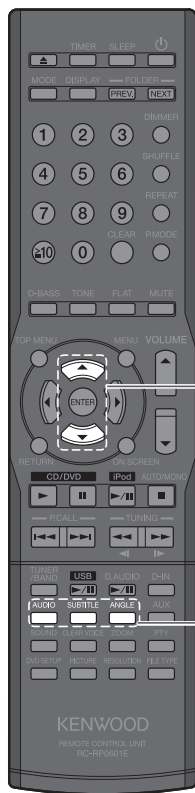
- If you turn the system off or remove the disc for which program playback is set, the information in the specified program is erased.



Switching Audio/Subtitle/Angle

DVD VIDEO/DVD VR/SVCD

If different types of audio, subtitle, or angle are recorded on the disc, you can select one of them.



1 Press the appropriate key to point the function for switching as described below.

[AUDIO] Selecting the audio language DVD VIDEO, DVD VR, VCD/SVCD

[SUBTITLE] Selecting the subtitle language DVD VIDEO, DVD VR, SVCD

[ANGLE] Selecting the angle DVD VIDEO

The setting screen is displayed on the TV screen.

: Audio language

: Subtitle language

: Angle



2 Press the [**▲**] or [**▼**] key to select the desired language or angle.



- You can press the **[SUBTITLE]** key repeatedly to show/hide the subtitle.
- You can also press the **[AUDIO]** or **[ANGLE]** key repeatedly to cycle the setting.
- If you see language codes on the screen such as "AA" and "AB", see "Language Code List" for more information. (See P.96)
- You can also use the menu bar to switch the audio, subtitle, and angle. (See P.49)
- For VCD or SVCD, "ST", "L", and "R" displayed on the screen mean "Stereo audio", "Left channel", and "Right channel", respectively.

CD/DVD

Magnifying the Image

DVD VIDEO/DVD VR/VCD/SVCD/JPEG/MPEG1/MPEG2

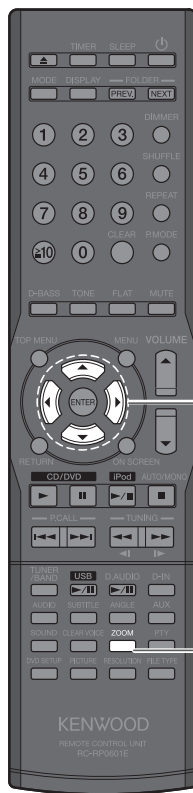


1 Press the [ZOOM] key during playback or while playback is paused.

The magnification ratio changes each time you press the key.

2 Press the [▲], [▼], [◀], or [▶] key to select the desired area.

- To return to the normal playback, press the [ZOOM] key and select "ZOOM OFF".

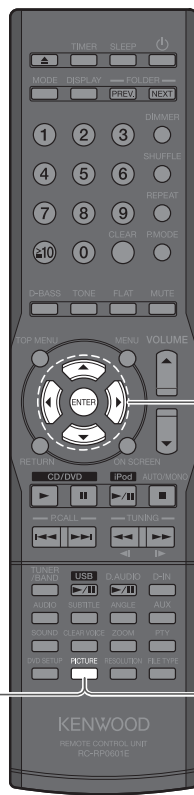


- This function is not available when playing the slide show of JPEG files.
- Magnified image may have less image quality or be distorted.

Adjusting the Image Quality

DVD VIDEO/DVD VR/VCD/SVCD/JPEG/ASF/MPEG1/MPEG2/DivX

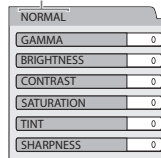
This setting is available when HDMI is not connected.



- 1 Press the [PICTURE] key during playback or while playback is paused.**

The image quality adjustment screen is displayed.

Selected PICTURE mode



- 2 Press the [◀] or [▶] key to select the mode.**

The mode changes as shown below each time you press the key.



NORMAL	Automatically makes adjustment with standard settings. (to step 7)
CINEMA	Automatically makes adjustment with settings for watching a movie in a dimly-lit room. (to step 7)
USER1/USER2	Allows you to make adjustment for your desired image quality. (to step 3)

- 3 Press the [▲] or [▼] key to select an item for adjustment.**

Adjustment item	Description
GAMMA	Adjusts the intermediate brightness without changing the brightness of light and dark areas. Adjustable range: -3~+3
BRIGHTNESS	Adjusts the brightness of the screen. Adjustable range: -8~+8
CONTRAST	Adjusts the contrast of the screen. Adjustable range: -7~+7
SATURATION	Adjusts the saturation of the screen. Adjustable range: -7~+7
TINT	Adjusts the tint of the screen. Adjustable range: -7~+7
SHARPNESS	Adjusts the sharpness of the screen. Adjustable range: -8~+8

- 4 Press the [ENTER] key.**

- 5 Press the [▲] or [▼] key to change the value.**



- 6 Press the [ENTER] key.**

Return to the step 3 to adjust another item.

- 7 Press the [PICTURE] key.**

CD/DVD

Changing the Display Resolution of the TV Screen

DVD VIDEO/DVD VR/VCD/SVCD/JPEG/MPEG1/MPEG2



This setting is available when HDMI is connected.

1

Press the [RESOLUTION] key while playback is stopped.

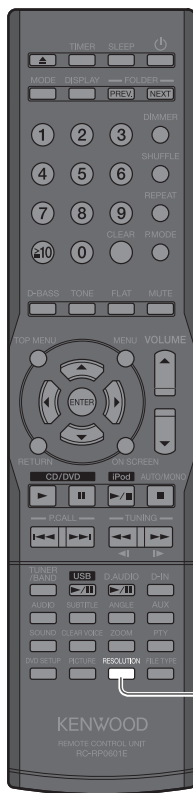
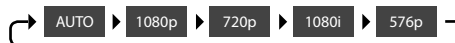
The resolution changes each time you press the key.

- For a TV set that supports all resolutions, the resolution changes as follows:

■ For NTSC



■ For PAL



- You can select from only the resolutions that are supported by the TV set.

CD/DVD

Enhanced Voice

CD/DVD VIDEO/DVD VR/VCD/SVCD/MP3/WMA/MPEG1/MPEG2

It is possible to make even small voices recorded in the disc/file easier to listen.

This function is useful for watching a movie.



1 Press the [CLEAR VOICE] key.

CLEAR VOICE turns on/off each time you press the key.



Lights when CLEAR VOICE is on.

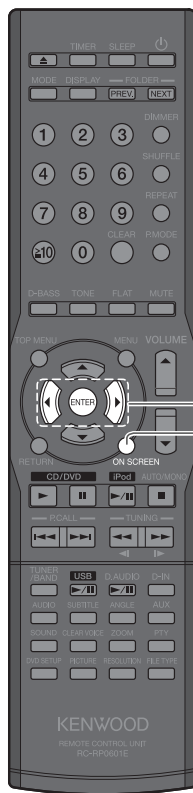
Using Status Bar and Menu Bar

This section explains how to display the status bar on the TV screen to see the current chapter or the track information. This section also explains how to display the menu bar to switch the time display or change the playback style.



Displaying the Status Bar and Menu Bar

CD/DVD VIDEO/DVD VR/VCD/SVCD/MPEG1/MPEG2



1 Press the [ON SCREEN] key during playback.

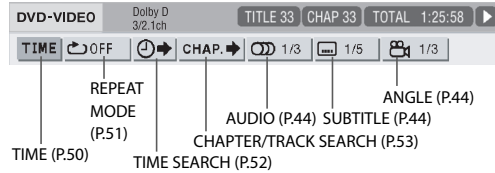
The status bar is displayed.



2 Press the [ON SCREEN] key again.

The menu bar is displayed.

3 Press the [◀] or [▶] key to select the desired item and press the [ENTER] key.



- To hide the menu bar, press the [ON SCREEN] key.

Information displayed on the status bar

DVD VIDEO/DVD VR

(DVD Video)
 Current title number
 (DVD VR)
 Current original program number
 (PG)/playlist number (PL)
 Playback status*
 Audio signal type
 Time
 Current chapter number/track number

CD/VCD/SVCD/MPEG1/MPEG2

Playback status*
 Playback mode status
 Time
 (VCD/SVCD/CD)
 Current track number
 (MPEG1/MPEG2 file)
 Repeat mode status

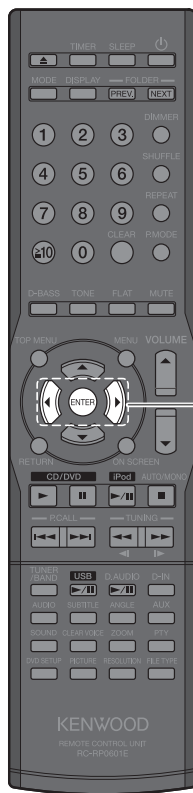
*Playback status icons are the same as those on the on-screen guide. (See P.31)

Using Status Bar and Menu Bar

Switching the Time Display

CD/DVD VIDEO/DVD VR/VCD/SVCD

Switch the time display on the display and status bar.



1 Display the menu bar. (See P.49)

2 Press the [◀] or [▶] key to select **TIME**.



3 Press the [ENTER] key.

4 Press the [ENTER] key.

The time display changes each time you press the [ENTER] key.

DVD VIDEO

TOTAL : TOTAL TIME of the title
 T.REM : TOTAL REMAIN TIME of the title
 TIME : SINGLE TIME of the chapter
 REM : SINGLE REMAIN TIME of the chapter

DVD VR

TOTAL : TOTAL TIME of the original program/playlist
 T.REM : TOTAL REMAIN TIME of the original program/playlist

CD/VCD/SVCD

TIME : SINGLE TIME of the track
 REM : SINGLE REMAIN TIME of the track
 TOTAL : TOTAL TIME of the DISC
 T.REM : TOTAL REMAIN TIME of the DISC

Using Status Bar and Menu Bar

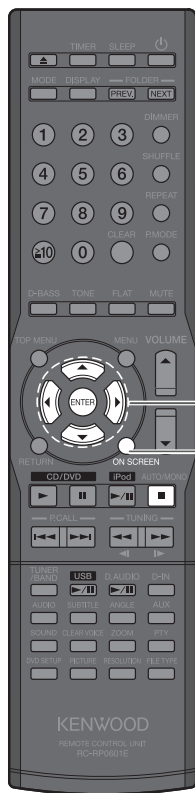
Playing the Specified Range Repeatedly

DVD VIDEO/DVD VR/CD/VCD(PBC off)/SVCD(PBC off)




You can repeat the desired range by specifying the starting point (A point) and ending point (B point).

- Repeat styles other than A-B are also available. For more information, see P.41.



1 Press the [ON SCREEN] key twice.

The menu bar is displayed. (See P.49)


2 Press the [◀] or [▶] key to select .

3 Press the [ENTER] key.


4 Press the [▲] or [▼] key to display "A-B".



5 Press the [ENTER] key at the starting point of the repeated range. (Specifying the A point)

The icon on the menu bar turns to .

6 Press the [ENTER] key at the ending point of the repeated range. (Specifying the B point)

The icon on the menu bar turns to .

The specified range is played repeatedly.

To end A-B repeat playback, perform one of the following procedures.

- Press the [■] key to stop playback.
- Select on the menu bar and press the [ENTER] key twice.

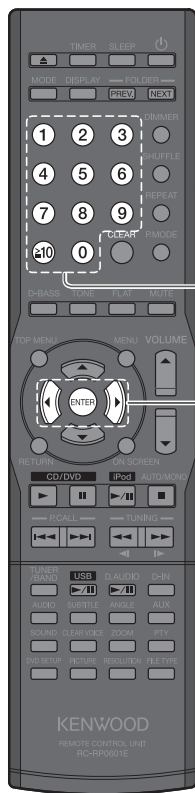


- This function does not work across titles or tracks.
- This function is not available during program, random, or repeat playback.

Using Status Bar and Menu Bar

Playing from the Specified Time

CD/DVD VIDEO/DVD VR/VCD(PBC off)/SVCD(PBC off)



1 Display the menu bar. (See P.49)

2 Press the [◀] or [▶] key to select .



3 Press the [ENTER] key.

4 Press the number keys to enter the time.

To start from (0 hours) 23 minutes 45 seconds, press the [0], [2], [3], [4], and [5] keys in this order.

- Minutes and seconds can be omitted.
- To correct the time you have entered, press the [◀] key to delete entered numbers and re-enter the time.

5 Press the [ENTER] key.



- This TIME SEARCH function is not available during program or random playback.

DVD VIDEO

- TIME SEARCH is played back from the beginning of the title.

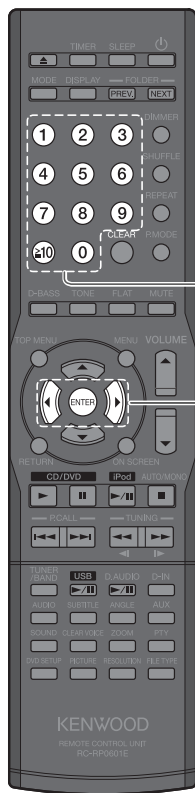
CD/VCD/SVCD

- Playback is started from the beginning of the disc while playback is stopped.
- During playback, the specified time is calculated from the beginning of the current track.

Using Status Bar and Menu Bar

Playing from the Specified Chapter

DVD VIDEO/DVD VR



1 Display the menu bar. (See P.49)

2 Press the [◀] or [▶] key to select **CHAP.**



3 Press the [ENTER] key.

4 Press the number keys to enter the chapter number.

■ Selecting with the number keys

To select chapter 3, press the [3] key.
To select chapter 17, press the [10], [1], and [7] keys.

5 Press the [ENTER] key.

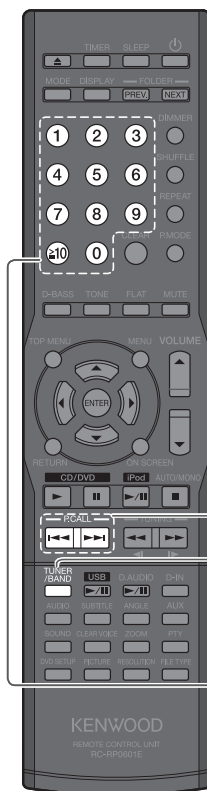


Receiving Radio Broadcasts

This section explains how to listen to the FM/AM radio and set radio stations.

Listening to FM/AM Radio

- Simply pressing the [TUNER/BAND] key turns on the system and allows you to listen to the radio.



1 Press the [TUNER/BAND] key to select "FM" or "AM".

Each time you press the key, the band switches between "FM" and "AM".

2 Select a station.

Choosing from preset stations (Preset Call)

Select a preset station.

- See P.56 and P.57 for more information on presets.

■ Selecting with the [P.CALL] keys

To display the next stored station: Press the [I◀◀] or [▶▶I] key.

To run through the sequence of stored station at intervals of roughly 0.5 seconds: Press and hold the [I◀◀] or [▶▶I] key.

■ Selecting with the number keys

To select P03, press the [3] key.

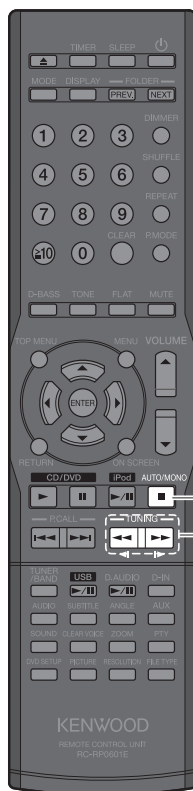
To select P17, press the [≧10], [1], and [7] keys.

Receiving Radio Broadcasts

Related Information

- Presetting Stations Automatically (AUTO MEMORY) → P.56
- Presetting Stations Manually (Manual Preset) → P.57
- Audio Settings → P.69 onwards

Choosing from stations that are not preset (Auto/ Manual Tuning)

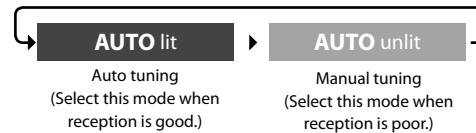


1 Select Auto tuning or Manual tuning.

Press the **[AUTO/MONO]** key.

Press the **[TUNING MODE]**

The mode changes as shown below each time you press the key.



2 Select a station.

Press the **[TUNING <</>]** key.

Press the **[<<</>>>]** or **[>>>/<<<]** key.

When the station is tuned, "TUNED" lights up on the display. If you are receiving a stereo signal, "ST" also lights up.

■ Using Auto tuning

The radio automatically tunes in to the next station each time you press the key. Repeat this step until you are tuned in to your preferred station.

■ Using Manual tuning

Press the key until the desired station is tuned or until you reach the desired frequency.



- There is no sound while Auto/Manual tuning is in progress.
- Auto tuning provides stereo reception while manual tuning provides monaural reception.
- The display changes as shown below each time you press the **[DISPLAY]** key.

FM:

Australia/Europe: Program service name → Preset No. → Day/Clock
U.S.A.: Preset No. → Day/Clock

When the program service name is not stored:

Preset No. → "NO PS" → Day/Clock

AM:

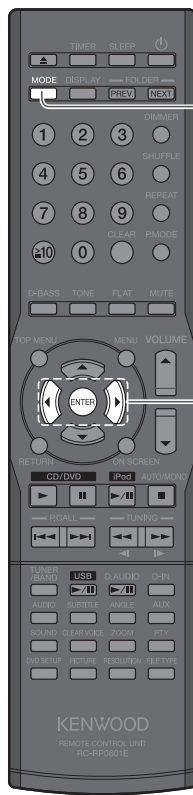
Preset No. → Day/Clock

Receiving Radio Broadcasts

Europe and Australia only

Presetting Stations Automatically (AUTO MEMORY)

- Up to 40 stations can be preset in the system.
- For use of the RDS function, stations must be memorized by AUTO MEMORY.



1 Press the [MODE] key.

2 Select "AUTO MEMORY".

Press the [◀] or [▶] key.

AUTO MEMORY

- "AUTO MEMORY" flashes on the display and the receivable radio stations are preset automatically.

Press the [ENTER] key.

- A preset frequency can be rewritten later.



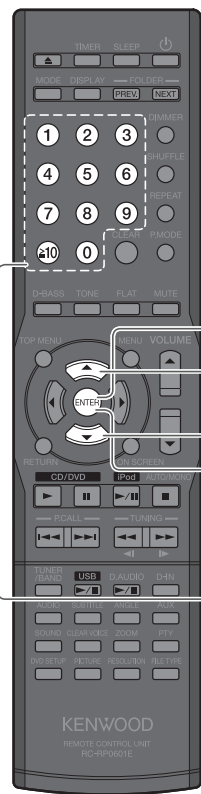
- RDS stations are given priority during auto presetting. If there is memory left after presetting, this unit continues presetting regular FM and AM stations.
- A broadcast station that cannot be preset with AUTO MEMORY should be set with Manual preset. (P. 57)

Presetting Stations Manually (Manual Preset)

Use this procedure to make the station you are currently listening to a preset number. If the selected preset number is already assigned a station, the existing station is overwritten by the new station.



- You can preset up to 40 FM and AM stations.



1 Tune in the station you want to preset, and then press the [ENTER] key.

Use Auto Tuning or Manual Tuning to tune in the desired station. (See P.55)



The preset number flashes.

2 Select the desired preset number (P01 to P40).

- Selecting with the [▲] or [▼] key.

- Selecting with the number keys

To select P03, press the [3] key.
To select P17, press the [≥10], [1], and [7] keys.

The currently selected preset number flashes.



- If the selected preset number is already assigned a station, the existing station is overwritten by the new station.

3 Press the [ENTER] key.



▼ 3 seconds later



Europe and Australia only



RDS (Radio Data System)

This system is designed for RDS reception, it can extract the information from the broadcast signal for use with various functions such as automatic display of the station name.

- Select the FM band.
- Preset RDS stations with the AUTO MEMORY function. (P.56)

PS (Program Service) Name Display

When an RDS broadcast is received, the station name is automatically displayed.

STATION1

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

To switch the displays

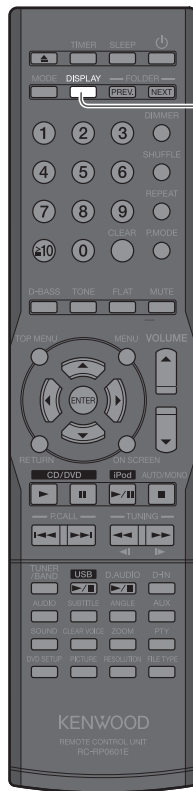
Press the [DISPLAY] key.

- The mode changes as shown below each time you press the key.

PS (Program Service Name) ▶ Preset Number ▶ Day/Clock



- Some stations may not be provided or be given different names depending on countries or areas.



Searching for a Desired Program Type (PTY Search)

The tuner automatically searches for a station which is currently broadcasting a specified program type (genre).



1 Press the [PTY] key.

Pop M

- 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 Press the [▲] or [▼] key to select the desired program type.

- Select it while "PTY" is lit.
- Use program type table for your convenience.

Program type table

Program Type Name	Display	Program Type Name	Display
Pop Music	Pop M	Weather	Weather
Rock Music	Rock M	Finance	Finance
Easy Listening Music	Easy M	Children's programs	Children
Light Classical	Light M	Social Affairs	Social
Serious Classical	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	Varied		

3 Press the [ENTER] key.

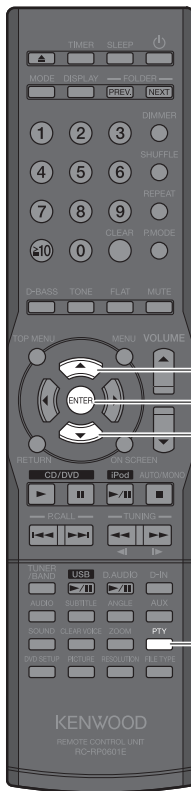
- No sound is heard while "PTY" is flashing.
- If a program of the desired type is found, that program is received and the program type name display changes to the station name display.

To cancel the PTY search

Press the [PTY] key.



- If a program of the desired type cannot be found, "NO PROGRAM" flashes, then after several seconds the display returns to the original display.





iPod

This section explains how to connect and play from an Apple iPod.

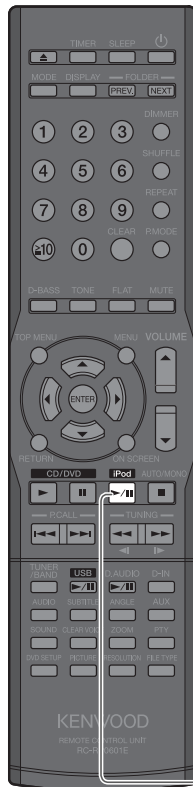
Playing from an iPod

Use this procedure to connect an iPod to the system for playback.

- Also refer to the instruction manual that comes with the iPod.
- Update the software for iPod to the latest version.

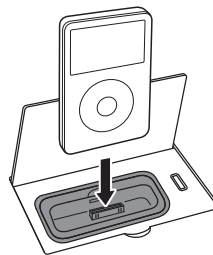
Supported models of iPod (As of September 2009)

- iPod classic
- iPod nano 2nd Generation
- iPod nano 3rd Generation
- iPod nano 4th Generation
- iPod nano 5th Generation
- iPod touch
- iPod touch 2nd Generation



1 Open the cover on the main unit, and then connect an iPod to the iPod connector.

- You cannot attach an iPod to the system if it is in a cover, case, or with other accessories. Always remove it.
- Connecting an iPod to the system without using the Dock adapter may deteriorate or damage the connector. Always use the Dock adapter. (P.13)
- Keep the iPod on a straight position while connecting/disconnecting it.
- Once the iPod is connected, it can be charged.



2 Press the [iPod ▶/||] key to begin playback.

- Simply pressing the [iPod ▶/||] key turns on the system and begins playback.



- Playback of movies is not supported.

Related Information

- Supported Audio Files → P.26
- Audio Settings → P.69 onwards

Operations during iPod playback

You can also perform these operation on iPod.

Playing the tracks in the previous/next album	Press the [PREV.] key to go to the previous album, while press the [NEXT] key to go to the next album.
Setting the shuffle	Press the [SHUFFLE] key. Each time you press the key, the shuffle setting is changed.
Setting the repeat playback	Press the [REPEAT] key. Each time you press the key, the repeat setting is changed.
Skipping forward/back	Hold down the [I◀◀◀] or [▶▶▶I] key. Hold down the [I◀◀◀/◀◀◀] or [▶▶▶I/▶▶▶I] key.
Switching display contents	Press the [DISPLAY] key to shift the selection. "iPod" ▶ Day/Clock
Pausing and resuming playback	Press the [iPod▶/] key. Press the [▶/] key.
Skipping tracks, skipping back, skipping to the start	<p>Skip a track</p> <p>Press the [▶▶▶I] key. Press the [▶▶▶/▶▶▶I] key.</p> <p>Skip back to the previous track</p> <p>Press the [I◀◀◀] key 2 or more times in succession. Press the [I◀◀◀/◀◀◀] key 2 or more times in succession.</p> <p>Return to the start of the track</p> <p>Press the [I◀◀◀] key once. Press the [I◀◀◀/◀◀◀] key once.</p>



USB

This section explains how to connect a USB flash memory or USB mass storage class compliant digital audio player ("USB device") and play back audio files from it.

Playing back from a USB device

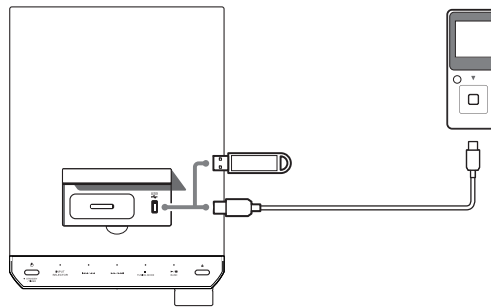
Connect a USB flash memory or USB mass storage class compliant digital audio player to the USB port and play back audio files from it.

- Also refer to the instruction manual that comes with the USB device you are connecting.
- Supported Files

AAC
MP3
WMA

See "Supported Files" for details. (P.26)

- 1 Open the cover on the main unit, and then connect a USB device to the [USB] port.



- 2 Press the [USB] key to begin playback.

- Simply pressing the [USB] key turns on the system and begins playback.
- After folders or files are searched, playback begins with the smallest file number. See P.37 for information on the playback sequence when there are multiple folders or files on the connected device.



A USB device is connected to the this unit.

Track number during playback

Elapsed time of current track



- If no playable files are found, playback does not start.
- When playback resumes on a digital HDD audio player, sound may jump due to the mechanism specific to HDD.

Related Information

- Supported Audio Files → P.26
- Audio Settings → P.69 onwards

Operations during USB device playback



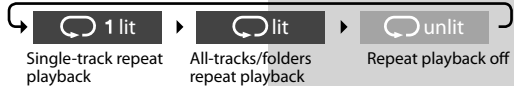
Playing the tracks in the previous/next folder

To go to the previous folder, press the **[PREV.]** key.
To go to the next folder, press the **[NEXT]** key.

- These functions may not work with some USB devices.

Repeat playback mode

Press the **[REPEAT]** key to shift the selection.



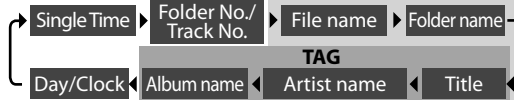
Selecting folder playback mode

Press the **[P.MODE]** key to shift the selection.



Switching display contents

Press the **[DISPLAY]** key to shift the selection.



Pausing and resuming playback

Press the **[USB▶/||]** key.

Press the **[▶/||]** key.

Stopping playback

Press the **[■]** key.

Press the **[■]** key.

Skipping forward/back

Press the **[◀◀]** or **[▶▶]** key.

Press the **[◀◀/▶▶]** or **[▶▶/▶▶I]** key.

Skipping tracks, skipping back, skipping to the start

- Skip a track**
Press the **[▶▶I]** key. Press the **[▶▶/▶▶I]** key.
- Skip back to the previous track**
Press the **[I◀◀]** key 2 or more times in succession. Press the **[I◀◀/◀◀]** key 2 or more times in succession.
- Return to the start of the track**
Press the **[I◀◀]** key once. Press the **[I◀◀/◀◀]** key once.





External Components

This section explains how to connect external components to the system and play back tracks.

Playback from External Components

Connect the external component to the system as described in <Connecting Other Accessories (Commercially Available Units)> (P.14, 15).

- When connecting external components, always turn this system and the external components off beforehand.
- Also refer to the instruction manual that comes with the external component being connected.

1 Press the [D-IN] key when playback is performed from a device connected to the [DIGITAL IN (OPTICAL)] terminal, while press the [AUX] key when playback is made performed from a device connected to the [AUX IN] terminal.

D-IN PCM

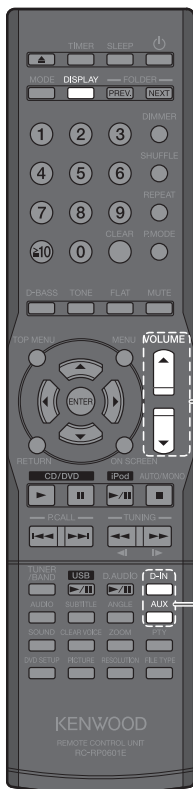
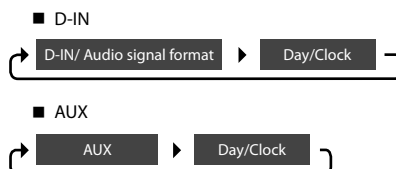
- The input audio signal formats are displayed.
- The system will play PCM, Dolby Digital, and dts signals.

2 Begin playback on the connected external component.

Perform the required operation on the connected external component to start playback.

3 Adjust the volume level.

- You can switch the display contents by pressing the [DISPLAY] key.



Related Information

- Connecting Other Accessories (Commercially Available Units) → P.14
- Audio Settings → P.69 onwards

Adjusting the External Component Input Level

Use the procedure below to adjust the input level for the external component connected to the [AUX IN] terminal.
Use this adjustment when the volume from an external component is noticeably higher or lower than other input sources at the same volume setting.

1 Press the [AUX] key.

2 Press the [MODE] key.

3 Select "INPUT LEVEL".

Press the [◀] or [▶] key.



Press the [ENTER] key.

4 Adjust the Input Level.

Press the [▲] or [▼] key.

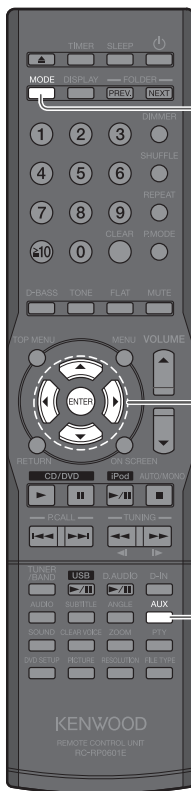


Press the [ENTER] key.

- You can adjust the input level in a range from -3 to 5.



- If you adjust the input level for AUX, the output level from the [AUX REC OUT] terminal will also change.





D.AUDIO

You can connect a Kenwood digital audio player (referred to hereafter simply as "digital audio player") to the system and use it to play tracks.

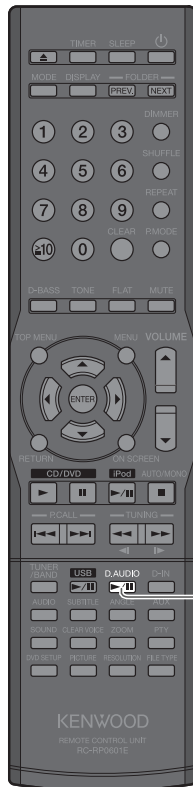
Playing from a Digital Audio Player

Use this procedure to connect a digital audio player to the system and play tracks.

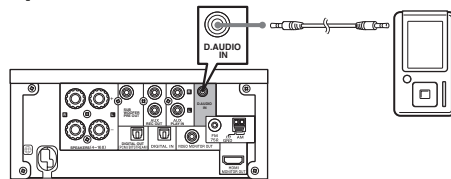
- Always turn this system and the digital audio player off before connecting the digital audio player.
- Also refer to the instruction manual that comes with the digital audio player you are connection.
- Connecting the digital audio player using the dedicated cable PNC-150 allows you to operate the digital audio player using the main unit or the remote control.

Compatible Kenwood digital audio players **(Europe and Australia only)**

HDD audio player	Memory audio player
HD20GA7	M1GC7, MGR-A7



- 1 **Connect the digital audio player to the [D.AUDIO IN] terminal on the rear panel of the main unit.**



- 2 **Turn on the digital audio player.**

- 3 **Press the [D.AUDIO ▶/II] key to begin playback.**

- Simply pressing the [D.AUDIO ▶/II] key turns on the system and begins playback.
- If the digital audio player is not connected using the dedicated cable PNC-150, use the controls on the connected digital audio player.



- If you use the dedicated cable for the connection, the volume and sound quality settings on the digital audio player are disabled.
- When you have finished using the digital audio player, disconnect the player's connection cable from the [D.AUDIO IN] terminal.

Related Information

- Adjusting the Digital Audio Player Input Level → P.68
- Audio Settings → P.69 onwards

■ Operations during digital audio player playback

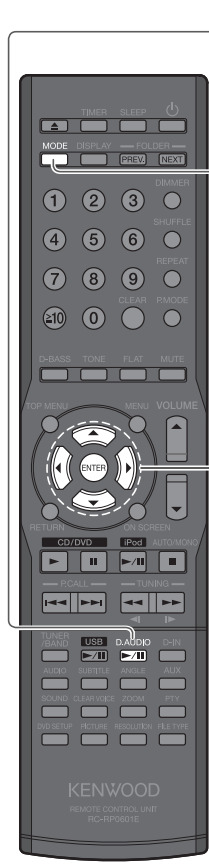
Playing the tracks in the previous/next folder	<p>To go to the previous folder, press the [PREV.] key.</p> <p>To go to the next folder, press the [NEXT] key.</p> <ul style="list-style-type: none"> • These functions may not work with some digital audio player models.
Skipping forward/back	<p>Hold down the [◀◀◀] or [▶▶▶] key.</p> <p>Hold down the [◀◀◀/▶▶▶] key.</p>
Switching display contents	<p>Press the [DISPLAY] key to shift the selection.</p> <p>"D.AUDIO" ▶ Day/Clock</p>
Pausing and resuming playback	<p>Press the [D.AUDIO ▶/] key.</p> <p>Press the [▶/] key.</p>
Stopping playback	<p>Press the [■] key.</p> <p>Press the [■] key.</p>
Skipping tracks, skipping back, skipping to the start	<p>Skip a track</p> <p>Press the [▶▶▶] key.</p> <p>Press the [▶▶▶/▶▶▶] key.</p> <p>Skip back to the previous track</p> <p>Press the [◀◀◀] key 2 or more times in succession.</p> <p>Press the [◀◀◀/◀◀◀] key 2 or more times in succession.</p> <p>Return to the start of the track</p> <p>Press the [◀◀◀] key once.</p> <p>Press the [◀◀◀/◀◀◀] key once.</p>

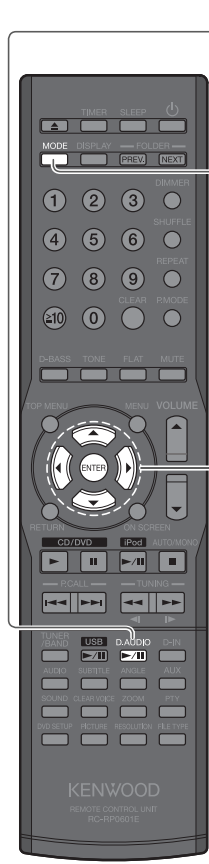
D.AUDIO

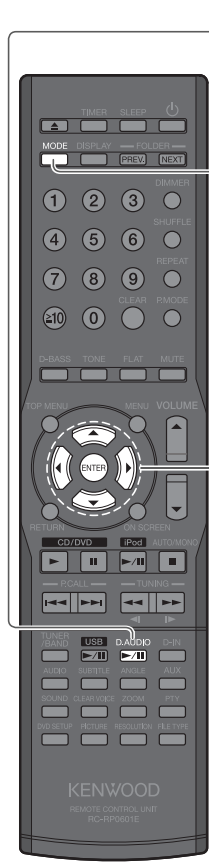
Adjusting the Digital Audio Player Input Level

Use the procedure below to adjust the input level for the external component connected to the [D.AUDIO IN] terminal.


Use this adjustment when the volume from an external component is noticeably higher or lower than other input sources at the same volume setting.

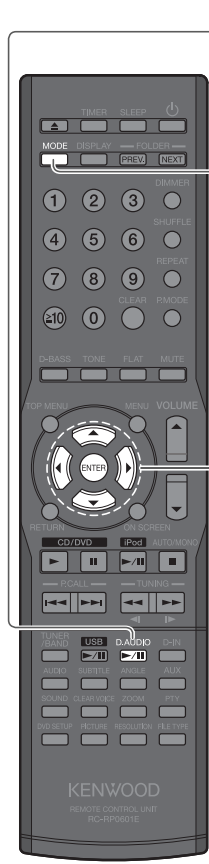
- 

1 Press the [D.AUDIO▶/II] key.
- 


2 Press the [MODE] key.
- 

3 Select "INPUT LEVEL".
Press the [◀] or [▶] key.




Press the [ENTER] key.
- 

4 Adjust the Input Level.
Press the [▲] or [▼] key.



Press the [ENTER] key.

 - You can adjust the input level in a range from -3 to 5.

 If you adjust the input level for D.AUDIO, the output level from the [AUX REC OUT] terminal will also change.

Audio Settings

Use the procedures in this chapter to specify the sound quality settings for your stereo system. You can use the system's sound quality function to customize the sound to your own preferences.

DTS Surround Sensation

- Setting DTS Surround Sensation..... 70

CONEQ (Acoustic Equalizer)

- Matching the Acoustic Effect to the Environment of the Room 71

Digital Signal Processor

- Adjusting Super-Bass Tones (D-BASS)..... 72
- Adjusting the Range Levels (TONE) 73
- Disabling D-BASS, TONE Effects (FLAT) 76



Supreme EX

- Setting Supreme EX..... 77

BALANCE

- Adjusting the Speaker Volume Balance 78

DTS Surround Sensation

This function generates the pseudo surround-sound effect with 2 speakers.

Setting DTS Surround Sensation



1

Press the [SOUND] key.

DTS Surround Sensation setting changes each time you press the key.

Surr Sens#1

"dts" appears on the display and the surround-sound effect turns on.

Surr Sens#2

This function gives more pronounced surround-sound effect.

OFF

"dts" disappears on the display and the surround-sound effect turns off.

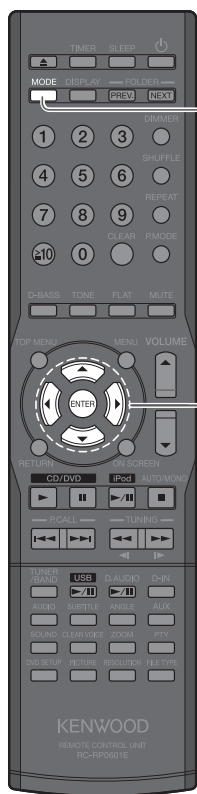


- The DTS Surround Sensation function operates for DVD VIDEO, DVD VR, movie file, or when "D-IN" (bitstream) is selected.

CONEQ (Acoustic Equalizer)

With the digital sound correction technology of Convolution Equalizer (CONEQ), you can select an Acoustic Effect suitable for your listening environment.

Matching the Acoustic Effect to the Environment of the Room



1 Press the [MODE] key.

2 Select "CONEQ SET".

Press the [◀] or [▶] key.

CONEQ SET

Press the [ENTER] key.

3 Select a CONEQ number.

Press the [▲] or [▼] key.

The display changes as shown below.

MODE 1 Suitable for a room with the average acoustic environment

MODE 2 Suitable for a room where sound is not echoed easily (a room with a lot of sound-absorbing materials, for example, curtain)

MODE 3 Suitable for a room where sound is echoed easily (a room with a lot of hard materials, for example, cement and floor board)

Press the [ENTER] key.



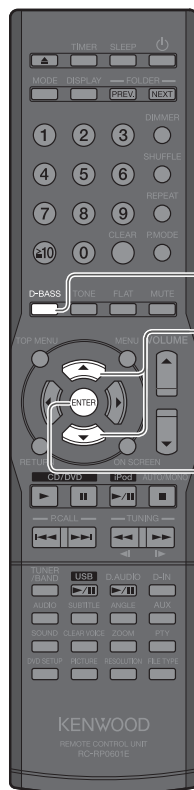
Digital Signal Processor

The system has a digital signal processor (DSP), which allows you to adjust the impact of super-bass tones and the levels of low-, mid-, and high-range tones.

This provides more detailed settings that allow you to adjust the sound to your own preferences.

Adjusting Super-Bass Tones (D-BASS)

This feature lets you tailor the impact of super-bass tones to your own preferences.



1 Press the [D-BASS] key.

2 Press the [▲] or [▼] key to adjust the level.



- While the "D-BASS" is flashing on the display, you can adjust the level in a range from 0 to 10. Higher numbers give more pronounced super-bass tones.

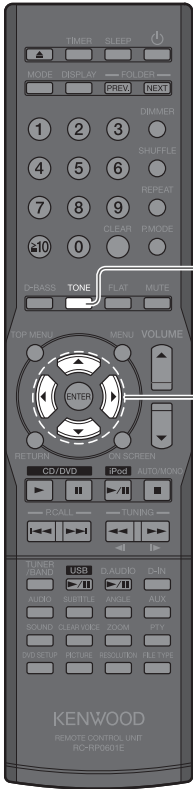
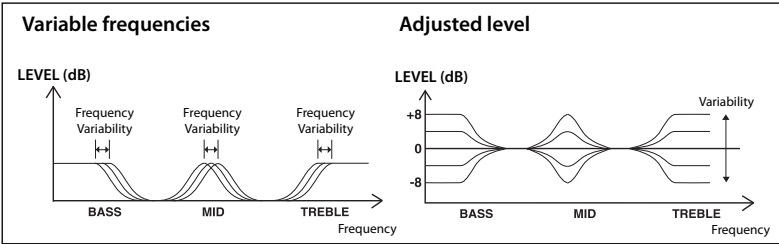
- The "D-BASS" flashes while setting is in progress.

3 Press the [ENTER] key.

- If you set level 1 or higher, the "D-BASS" lights.

Adjusting the Range Levels (TONE)

You can adjust the low-, mid- and high-range tones to match your preferences (TONE).



1 Press the [TONE] key, and then select [BASS] from the range levels (BASS: low-range tones, MID: mid-range tones, TREBLE: high-range tones, OFF: setting off).

2 Press the [◀] or [▶] key to select the frequency (Low: 100Hz, Mid: 150Hz, or High: 200Hz) of the low-range tones (BASS).



3 Press the [▲] or [▼] key to adjust the low tones (BASS) level.

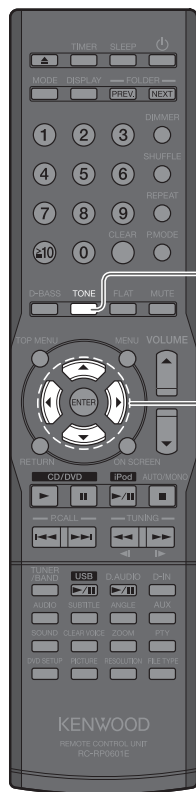


- The "TONE" flashes while setting is in progress. While the "TONE" is flashing, you can adjust the level in a range from -8 to +8.



Continued to next page

Digital Signal Processor



4 Press the [TONE] key.

5 Press the [◀] or [▶] key to select the frequency (Low: 1kHz, Mid: 2kHz, or High: 3kHz) of the mid-range tones (MID).

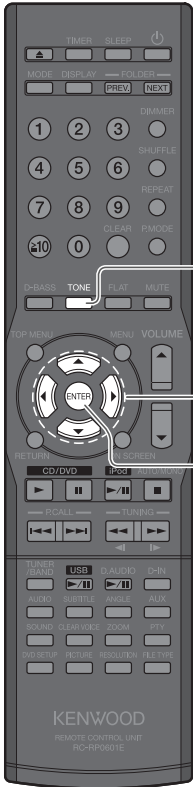


6 Press the [▲] or [▼] key to adjust the mid tones (MID) level.



- The "TONE" flashes while setting is in progress. While the "TONE" is flashing, you can adjust the level in a range from -8 to +8.

Digital Signal Processor



7 Press the [TONE] key.

8 Press the [◀] or [▶] key to select the frequency (Low: 5kHz, Mid: 7kHz, or High: 10kHz) of the high-range tones (TREBLE).



9 Press the [▲] or [▼] key to adjust the high tones (TREBLE) level.



- The "TONE" flashes while setting is in progress. While the "TONE" is flashing, you can adjust the level in a range from -8 to +8.



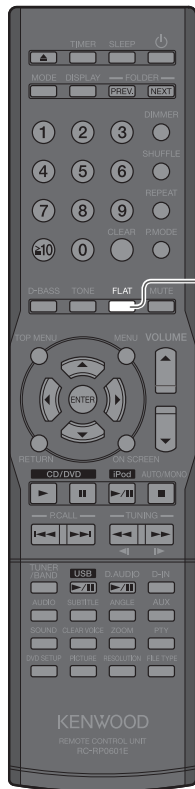
10 Press the [ENTER] key.

- If you set a level other than 0, the "TONE" is displayed.

- If you do not need to adjust all the range levels, press the [ENTER] key to end the settings after you have finished the range level adjustments you want to make.

Digital Signal Processor

Disabling D-BASS, TONE Effects (FLAT)



1 Press the [FLAT] key.

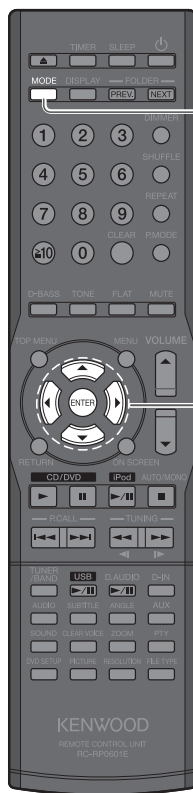


- The "D-BASS" and "TONE" levels are set to 0.
DTS Surround Sensation and Clear Voice also turns off.

Supreme EX

Supreme EX is Kenwood's original sound quality enhancement technology and is used for playing discs and audio files or for playback using components connected to a digital input terminal.

Setting Supreme EX



1 Press the [MODE] key.

2 Select "SPRM SET".

Press the [◀] or [▶] key.

SPRM SET

- The "SPRM EX" flashes while setting is in progress.

Press the [ENTER] key.

3 Select "ON" or "OFF".

Press the [▲] or [▼] key.

SPRM ON

SPRM OFF

- "SPRM EX" lights when "SPRM ON" is selected, while it turns off when "SPRM OFF" is selected.

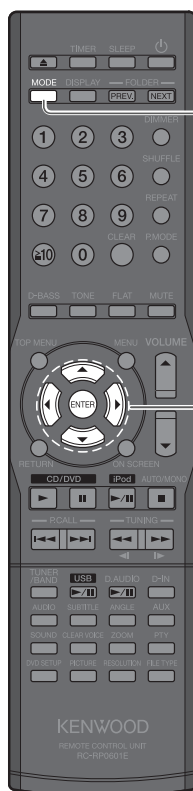


- The Supreme EX function operates when "CD/DVD", "D-IN", "iPod", or "USB" is selected.
- When "CD/DVD" or "D-IN" is selected, "SPRM EX" does not light if the DVD is DVD Video, the audio signal is not PCM such as Dolby Digital and DTS, or the PCM frequency is 96kHz, 88.2kHz, or 48kHz.

BALANCE

Use this procedure to adjust the volume balance for the left and right speakers.

Adjusting the Speaker Volume Balance



1 Press the [MODE] key.

2 Select "BALANCE".

Press the [◀] or [▶] key.

BALANCE

▼
Press the [ENTER] key.

3 Adjust the balance.

Press the [▲] or [▼] key.

L + R

▼
Press the [ENTER] key.

Component Settings

This chapter explains basic timekeeping settings, as well as settings for the timer, display, and other functions which provide more extensive usage of this product.

Setting the Timer

- Setting the Sleep Timer (SLEEP) 80
- Setting the Program Timer (TIMER SET) 81

Display Settings

- Setting the Display Brightness (DIMMER) 85
- Turning the Display Saver ON/OFF 85

Setting the System Clock.....86

Auto Power Save (A.P.S.)87

Setting the Power Supply88

TV AUDIO IN89

Activating the Subwoofer Sound90

System Settings

- Displaying the System Setting Screen 91



Setting the Timer

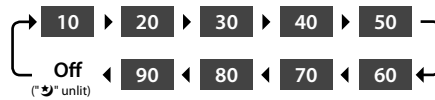
A Sleep Timer automatically turns the system off after a set interval, while a Program Timer starts playback at a specified time.

Setting the Sleep Timer (SLEEP)

This function automatically turns the system off after a set interval. You can set an interval from 10 to 90 minutes, in 10-minute increments.

1 Press the [SLEEP] key.

The interval increases by 10 minutes each time you press the key. The next setting after 90 minutes is timer off.



Sleep Timer on



- While the Sleep Timer is running, you can check the remaining time by pressing the [SLEEP] key.

■ To cancel the Sleep Timer

Press the power [⏻] key to turn the system off (Standby) or press the [SLEEP] to turn off "⏻".



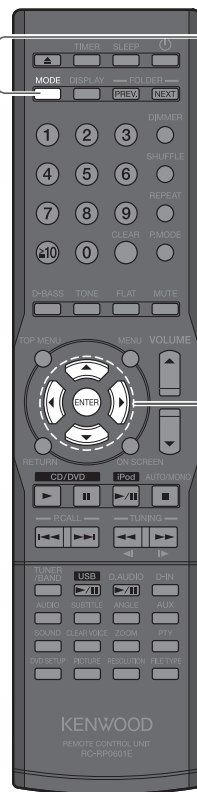
Related Information

- Setting the System Clock → P.86

Setting the Program Timer (TIMER SET)

This function allows you to use the timer to start playback automatically at a specified time. You can set 2 timers (PROG. 1 and PROG. 2) at the same time. You can play back from a radio, DVD, CD, iPod, USB device, or external component (AUX IN).

- Set the system clock to the correct time before performing this procedure. (See P.86)
- Make sure the times for PROG. 1 and PROG. 2 are different by at least 1 minute to ensure that their operations do not overlap.



1 Press the [MODE] key.

2 Select "TIMER SET".

Press the [◀] or [▶] key.



Press the [ENTER] key.

3 Select "PROG. 1" or "PROG 2".

Press the [▲] or [▼] key.



Press the [ENTER] key.

4 Select "ON" or "OFF".

Press the [▲] or [▼] key.



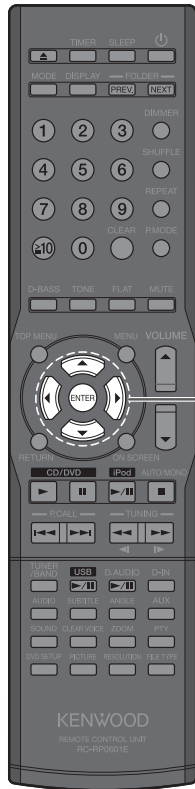
Press the [ENTER] key.

- Selecting "OFF" ends the procedure and restores the original display.



Continued to next page

Setting the Timer



5 Select the day (or days) on which the Program Timer will run.

Press the [▲] or [▼] key.

The mode changes as shown below each time you press the key.



Press the [ENTER] key.

- If you selected "EVERYDAY", "MON-FRI", "TUE-SAT" or "SAT-SUN", proceed to step 7.

6 Select "EVERY WEEK" or "ONETIME".

Press the [▲] or [▼] key.

EVERY WEEK

- The timer runs every week.

ONETIME

- The specified timer runs once only.

Press the [ENTER] key.

7 Specify the "ON" (start time) setting.

Use the [▲] or [▼] key to set the "hour".

ON 9:00

- The "hour" flashes.

▶ Press the [ENTER] key.

Use the [▲] or [▼] key to set the "minute".

ON 9:15

- The "minute" flashes.

▶ Press the [ENTER] key.

8 Specify the "OFF" (end time) setting.

Use the [▲] or [▼] key to set the "hour".

OFF 11:00

- The "hour" flashes.

▶ Press the [ENTER] key.

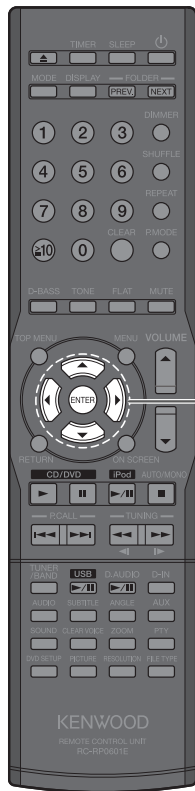
Use the [▲] or [▼] key to set the "minute".

OFF 11:03

- The "minute" flashes.

▶ Press the [ENTER] key.

Setting the Timer



9 Select "PLAY" or "AI PLAY".

Press the [▲] or [▼] key.

PLAY

- Playback is at the volume set in step 10.

AI PLAY

- Playback begins at the specified time and the volume gradually increases to the level set in step 10.

Press the [ENTER] key.

10 Set the volume.

Press the [▲] or [▼] key.

VOLUME 50

▶ Press the [ENTER] key.

- You cannot use the [VOLUME] key to set the volume.

11 Select the input source.

Press the [▲] or [▼] key.

The mode changes as shown below each time you press the key.



Press the [ENTER] key.



- If you select an input source other than "TUNER", this completes the settings and "COMPLETE" is displayed briefly, after which the original display reappears.
- If you select "TUNER", use the [▲] or [▼] to select a preset number and then press the [ENTER] key. This completes the settings and "COMPLETE" is displayed briefly, after which the original display reappears.

Continued to next page

Display Settings

Use these settings to adjust the brightness of the display and to specify the settings for the main unit dial lighting.



Setting the Display Brightness (DIMMER)

Use this procedure to adjust the display brightness. Adjust the brightness according to your preferences and the conditions in the room.

1 Press the [DIMMER] key.

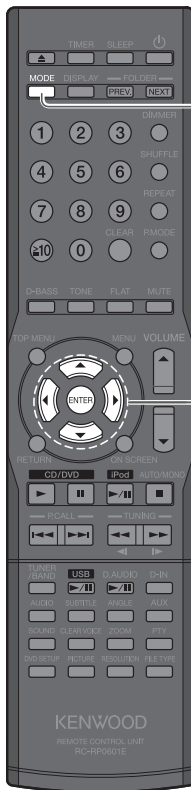
The mode changes as shown below each time you press the key.

"DIMMER OFF": Normal brightness

"DIMMER 1": Reduces the display brightness.

"DIMMER 2": Reduces the display brightness and turns off the dial lighting.

"DIMMER 3": Restores the normal display brightness and turns off the dial lighting.



Turning the Display Saver ON/OFF

If the system is not used at all for a set period, this function scrolls the display to prevent burn-in of the text on the display and uneven display brightness.

1 Press the [MODE] key.

2 Select "DISP. SAVER".

Press the [◀] or [▶] key.

DISP SAVER

Press the [ENTER] key.

3 Select "ON" or "OFF".

Press the [▲] or [▼] key.

D. SAVER ON

- The display saver is active.

D. SAVER OFF

- The display saver is disabled.

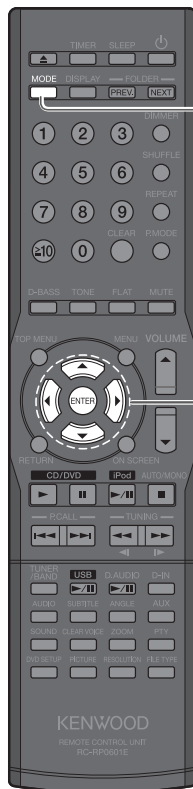
Press the [ENTER] key.



- When you are playing from a CD/DVD or USB, the display saver is activated if the system is not used at all for 10 minutes after the playback stops. If you selected another input source, the display saver is activated if the system is not used at all for 10 minutes after the last key is pressed.

Setting the System Clock

Set the system clock to the correct time. If the system clock time setting is not correct, the Program Timer will not start playback at the correct time.



1 Press the [MODE] key.

2 Select "TIME ADJUST".

Press the [◀] or [▶] key.

TIME ADJUST ▶

Press the [ENTER] key.

3 Set the day of the week.

Press the [▲] or [▼] key.

SUN 12:00 ▶

Press the [ENTER] key.

4 Set the time.

Use the [▲] or [▼] key to set the "hour".

SUN 8:00 ▶

Press the [ENTER] key.

Use the [▲] or [▼] key to set the "minute".

SUN 8:07 ▶

Press the [ENTER] key.

● The currently set day of the week and time are displayed.

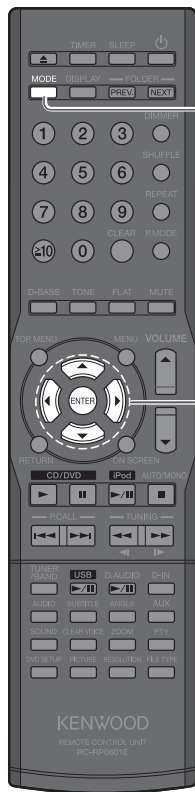
SUN 8:07



- If you make a mistake, repeat the procedure from the beginning.
- If there is a power failure or the system is unplugged from the wall outlet for some time, set the time again.
- Pressing the [■] key on the remote control while the system is in the Standby mode will display the time for 5 seconds.
- Time display differs (24 Hour clock display or AM/ PM display) according to area.

Auto Power Save (A.P.S.)

Auto Power Save (A.P.S.) is automatically turns the system off if no operation is performed for 30 minutes after a CD/DVD or a USB connected device stops playing.



1 Press the [MODE] key.

2 Select "A.P.S. SET".

Press the [◀] or [▶] key.



• "A.P.S." lights up on the display.

Press the [ENTER] key.

3 Select "ON" or "OFF".

Press the [▲] or [▼] key.



• "A.P.S." flashes on the display.



• "A.P.S." turns off.

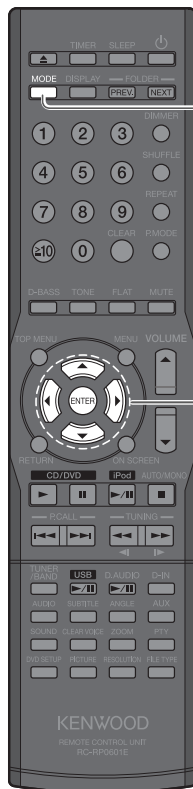
Press the [ENTER] key.



- If the input source is other than CD/DVD and USB, Auto Power Save operates when the volume is set to 0 (VOLUME 0) or MUTE is set to on. When recording on external components, turn A.P.S. off or adjust volume to above 0.

Setting the Power Supply

Specify whether power is supplied to an iPod or USB device, even when iPod or USB device is connected but not selected as an input source.
(Power is always supplied to a device selected as an input source, regardless of this setting.)



1 Press the [MODE] key.

2 Select "P.SUPPLY".
Press the [◀] or [▶] key.

P.SUPPLY

Press the [ENTER] key.

3 Select "ON" or "OFF".
Press the [▲] or [▼] key.

SUPPLY ON

- Power is always supplied when the system is turned on.

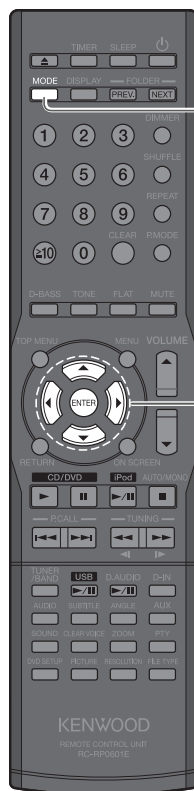
SUPPLY OFF

- Power is supplied only when the device is selected as an input source.

Press the [ENTER] key.

TV AUDIO IN

When the TV set that is connected with the system through HDMI selects the built-in TV tuner, this function switches the audio input of the system from "HDMI" to "D-IN".
To enable the TV AUDIO IN function, CEC must be turned on in addition to the setting of this function. (See P.95)



1 Press the [MODE] key.

2 Select "TV AUDIO IN".

Press the [◀] or [▶] key.

TV AUDIO IN

Press the [ENTER] key.

3 Select "ON" or "OFF".

Press the [▲] or [▼] key.

TV IN ON

- The TV AUDIO IN function turns on.

TV IN OFF

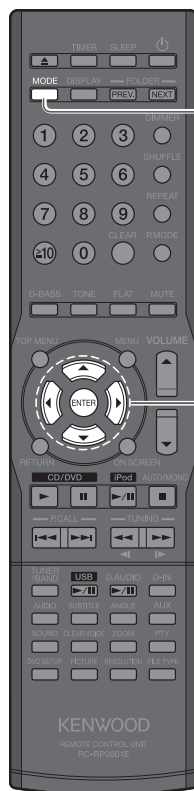
- The TV AUDIO IN function turns off.

Press the [ENTER] key.



Activating the Subwoofer Sound

This function turns on/off the audio output from the subwoofer connected with the system.
For connection with the subwoofer, see "Connecting Other Accessories (Commercially Available Units)".
(See P.15)



1 Press the [MODE] key.

2 Select "SUBW OUT".

Press the [◀] or [▶] key.

SUBW OUT

Press the [ENTER] key.

3 Select "ON" or "OFF".

Press the [▲] or [▼] key.

SUBW ON

- The audio output from the subwoofer turns on.

SUBW OFF

- The audio output from the subwoofer turns off.

Press the [ENTER] key.

System Settings

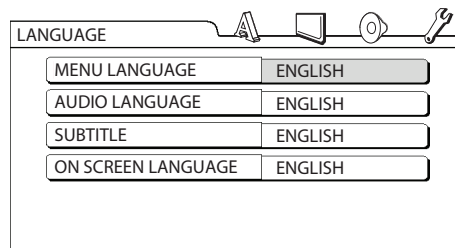
This section explains how to change the system settings as needed. To do so, display the system setting screen on the TV screen.

Displaying the System Setting Screen

- The system setting screen is available while playback is stopped or when a disc is not loaded.

1 Press the [DVD SETUP] key.

The system setting screen is displayed on the TV screen.

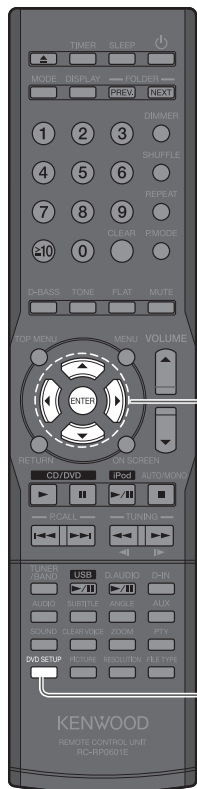


2 Use the [▲], [▼], [◀], or [▶] key and the [ENTER] key to operate.

- For more information about the operation, follow the instruction on the TV screen.
- For each setting item, see the following description.



- Top and bottom areas of the system setting screen may be cropped on a wide-TV screen. In such case, change the picture size on the TV set.



System Settings





■ LANGUAGE setting screen

Setting item	Description
MENU LANGUAGE	Select the language of the DVD Video menu.
AUDIO LANGUAGE	Select the language of the DVD Video audio.
SUBTITLE	Select the language of the DVD Video subtitle.
ON SCREEN LANGUAGE	Select the language displayed on the setting screen.



- If the selected language is not included in the disc/file, the optimal language is used.
- If you see language codes on the screen such as "AA" and "AB", see "Language Code List" for more information. (See P.96)


■ PICTURE setting screen

Setting item	Description
MONITOR TYPE	<p>Default setting</p> <p>Select the setting suitable for the TV set.</p> <p>16:9 NORMAL: Used for wide-TVs whose aspect ratio is fixed to the 16:9 picture. The system displays black bars at the left and right of normal (4:3) pictures.</p> <p>16:9 AUTO: Used for wide-TVs that automatically recognizes the aspect ratio of the picture. A picture is displayed depending on its aspect ratio.</p> <p>When a normal (4:3) picture is input</p>  <p>When a 16:9 picture is input</p>  <p>4:3 LB: Letter box. Used for normal (4:3) TVs. The system displays black bars at the top and bottom of wide pictures.</p>  <p>4:3 PS: Pan scan. Used for normal (4:3) TVs. The system cuts off the left and right sides of wide pictures. (Note that the letter box is used if the disc does not support the pan scan.)</p> 

System Settings

Setting item	Description
PICTURE SOURCE	Select the setting suitable for the picture source. AUTO: Automatically determines the source material (FILM/VIDEO). FILM: Suitable for the film source as well as the video source recorded in the progressive scanning mode. VIDEO: Suitable for the video source.
SCREEN SAVER	Turn on/off the screen saver. The screen saver is activated after a still image has been displayed for 5 minutes without any user operation.
FILE TYPE	Select the type of file to play if a disc contains different types of file (audio/still image/video). AUDIO: Plays the MP3/WMA files. STILL PICTURE: Plays the JPEG files. VIDEO: Plays the ASF/MPEG1/MPEG2/DivX files.
HDMI DVI COLOR	You can select the settings for the picture appearance (image quality, color intensity and black fading) on the TV connected to the [HDMI MONITOR OUT] terminal. STANDARD: For normal usage ENHANCE: The main unit automatically adjusts the picture appearance.
HDMI OUT	You can select the video signal type output from the [HDMI MONITOR OUT] terminal. AUTO: For normal usage. The main unit automatically selects the output video signal type according to the TV connected to the [HDMI MONITOR OUT] terminal. RGB: Select this item if no picture appears on the TV with the "AUTO" setting. The output video signal type is set to the RGB signal.

■ AUDIO setting screen

 : Default setting

Setting item	Description
DIGITAL AUDIO OUT	Select the output signal type based on the external device connected to the [DIGITAL OUT] terminal of the system. See "Relation between DIGITAL AUDIO OUT Settings and Output Signals" for details. (See P.94) PCM ONLY: Used for devices that support only the linear PCM. DOLBY DIGITAL/PCM: Used for devices that have a Dolby Digital decoder or equivalent function. STREAM/PCM: Used for devices that have a DTS/Dolby Digital decoder or equivalent function.



System Settings

Setting item	Description
DOWN MIX	Select the signal based on the external device connected to the [DIGITAL OUT] terminal of the system. This setting is available when "PCM ONLY" is selected for "DIGITAL AUDIO OUT". DOLBY SURROUND: Used for devices that have a built-in Dolby Pro Logic decoder. STEREO: Used for other devices.
D.RANGE COMPRESSION	This function corrects the difference in quality between large and small sounds played at low volume. (This function is valid for DVDs recorded in Dolby Digital format.) AUTO: D.RANGE COMPRESSION automatically works when needed. ON: D.RANGE COMPRESSION always works.
HDMI AUDIO OUT	You can select whether or not the audio signal from the [HDMI MONITOR OUT] terminal is output. ON: The audio signal from the [HDMI MONITOR OUT] is output. OFF: The audio signal from the [HDMI MONITOR OUT] is not output. NOTE ● Depending on the connected TV, when "HDMI AUDIO OUT" is set to "ON", only PCM signals can be output via an HDMI cable.

■ Relation between DIGITAL AUDIO OUT settings and output signals

Type of disc/file to play	DIGITAL AUDIO OUT Settings		
	STREAM/PCM	DOLBY DIGITAL/PCM	PCM only
DVD Video with 48kHz, 16/20/24-bit linear PCM DVD Video with 96kHz linear PCM	Linear PCM with 48kHz, 16-bit stereo		
DTS DVD Video/DVD Audio	DTS bitstream	Linear PCM with 48kHz, 16-bit stereo	
Dolby Digital DVD Video	Dolby Digital bitstream		Linear PCM with 48kHz, 16-bit stereo
CD/VCD/SVCD	Linear PCM with 44.1kHz, 16-bit stereo Linear PCM with 48kHz, 16 bit		
DTS CD	DTS bitstream	Linear PCM with 44.1kHz, 16 bit	
MP3/WMA/WAV/MPEG1/ MPEG2 files	Linear PCM with 32/44.1/48kHz, 16 bit		



- About the [DIGITAL OUT] terminal: 20 or 24 bit signal may be output for some DVDs that have no copyright protection setting.

System Settings

■ OTHERS setting screen

■ : Default setting

Setting item	Description
RESUME	Turn ON /OFF. (See P.32)
ON SCREEN GUIDE	Turn ON /OFF. (See P.31)
CEC	Turn on/off the CEC (Consumer Electronics Control) for the HDMI connection between the system and the TV set. Select ON1 (with Power Control), ON2 (without Power Control), or OFF . See "CEC Feature List" for details. (See P.95)
DivX REGISTRATION	We provide you with the DivX® VOD (Video On Demand) registration code that allows you to rent and purchase videos using the DivX® VOD service. For more information, visit www.divx.com/vod . You can view the registration code of the unit.

■ CEC Feature List

Certain equipment or TV monitor do not support some CEC functions and may not operate correctly.

One Touch Play

When you perform one of the following operations on the system, the TV monitor in the standby mode is automatically powered on and HDMI is selected as the input.

If the TV monitor is already powered on, HDMI is simply selected as the input.

- Start playing the DVD source.
- Display the setting menu.
- Select CD/DVD as the input source.

Selector Synchronization (Routing Control)

When you select the HDMI input on the TV set, the system in the standby mode is automatically powered on.

When you switch the input from HDMI to another on the TV set, the system automatically switches the source to "D-IN", depending on the "TV AUDIO IN" setting.

- When TV AUDIO IN is ON "D-IN" is selected.
- When TV AUDIO IN is OFF Nothing occurs.

Power Interlock (System Standby)

When you power off the TV monitor, the system automatically enters the standby mode if CD/DVD is selected as the source on the system.

This feature is disabled when the CEC setting is "ON2". It is enabled only with "ON1".



- Some TV monitor manufacturers and models do not support the CEC function.
- Selector Synchronization is activated when the CEC setting is "ON1".

System Settings

■ Language Code List

Code	Language	Code	Language	Code	Language	Code	Language
AA	Afar	GL	Galician	ML	Malayalam	SR	Serbian
AB	Abkhazian	GN	Guarani	MN	Mongolian	SS	Swati
AF	Afrikaans	GU	Gujarati	MO	Moldavian	ST	Southern Sotho
AM	Amharic	HA	Hausa	MR	Marathi	SU	Sundanese
AR	Arabic	HI	Hindi	MS	Malay	SV	Swedish
AS	Assamese	HR	Croatian	MT	Maltese	SW	Swahili
AY	Aymara	HY	Armenian	MY	Burmese	TA	Tamil
AZ	Azerbaijani	IA	Interlingua	NA	Nauru	TE	Telugu
BA	Bashkir	IE	Interlingue	NE	Nepali	TG	Tajik
BE	Belarusian	IK	Inupiaq	NL	Dutch	TH	Thai
BG	Bulgarian	IN	Indonesian	NO	Norwegian	TI	Tigrinya
BH	Bihari	IS	Icelandic	OC	Occitan	TK	Turkmen
BI	Bislama	IW	Hebrew	OM	Oromo	TL	Tagalog
BN	Bengali	JI	Yiddish	OR	Oriya	TN	Tswana
BO	Tibetan	JW	Javanese	PA	Panjabi	TO	Tonga
BR	Breton	KA	Georgian	PS	Pashto	TR	Turkish
CA	Catalan	KK	Kazakh	PT	Portuguese	TS	Tsonga
CO	Corsican	KL	Greenlandic	QU	Quechua	TT	Tatar
CY	Welsh	KM	Central Khmer	RM	Romansh	TW	Twi
DA	Danish	KN	Kannada	RN	Rundi	UK	Ukrainian
DZ	Dzongkha	KO	Korean	RO	Romanian	UR	Urdu
EL	Modern Greek	KS	Kashmiri	RW	Kinyarwanda	UZ	Uzbek
EO	Esperanto	KU	Kurdish	SA	Sanskrit	VI	Vietnamese
ET	Estonian	KY	Kirghiz	SD	Sindhi	VO	Volapuk
EU	Basque	LA	Latin	SG	Sango	WO	Wolof
FA	Persian	LN	Lingala	SH	Serbo-Croatian	XH	Xhosa
FI	Finnish	LO	Lao	SI	Sinhala	YO	Yoruba
FJ	Fijian	LT	Lithuanian	SL	Slovenian	ZU	Zulu
FO	Faroese	LV	Latvian	SM	Samoan		
FY	Western Frisian	MG	Malagasy	SN	Shona		
GA	Irish	MI	Maori	SO	Somali		
GD	Scottish Gaelic	MK	Macedonian	SQ	Albanian		

Maintenance

This chapter explains what to do when error messages appear on the display or when problems arise. It also describes how to store and maintain the system so it continues to give pleasure for many years to come.

Messages	98
Troubleshooting	99
Glossary of Terms	104
Care and Storage	105
Specifications	106



Messages

Displayed Message	Meaning
NO DISC	There is no disc inserted. →Insert a disc.
REGION ERR	The region of the DVD VIDEO is different. →This disc cannot be played.
PGM FULL	An attempt was made to program a 100 th disc track/chapter. →You can program only up to 99 tracks/chapters. (See P.42)
NOT SUPPORT	An iPod that is not supported with this device is connected. (See P.60) This is the file that cannot be played by the system.
TRAY OPEN	The disc tray is open. →Close the tray.
UNLOCK	The component connected to the [DIGITAL IN (OPTICAL)] terminal on the rear panel of the main unit is not turned on. Alternatively, there is no signal input.
.....	There is no TAG information. (See P.27)

Troubleshooting

Whenever the system is not operating as expected, check the following tables to see if you can resolve the problem yourself before requesting service.

Amplifier/ Speakers

Symptoms	Solution	Ref. page
No sound output	<ul style="list-style-type: none"> ● Check all connections as described in <Connecting the System>. ● Increase the volume. ● Cancel the MUTE setting. ● Unplug any headphones plugged into the main unit. 	10-15 22 22 15
[STANDBY/TIMER] indicator is flashing red and there is no sound.	<ul style="list-style-type: none"> ● One of the speaker cords is short-circuited. Unplug the power cord and then reconnect the speaker cord. ● There may be an internal problem. Turn off the power to the main unit, unplug the power cord and request repairs. 	—
No sound from the headphones	<ul style="list-style-type: none"> ● Check that the headphone plug is inserted correctly. ● Increase the volume. ● Cancel the MUTE setting. 	15 22 22
There is no sound from "D-IN".	<ul style="list-style-type: none"> ● Check all connections as described in <Connecting the System>. 	14-15
No sound from one of the speakers	<ul style="list-style-type: none"> ● Check all connections as described in <Connecting the System>. ● Check the volume balance for the left and right speakers. 	10 78
The clock display is flashing.	<ul style="list-style-type: none"> ● Set the clock as described in <Setting the System Clock>. 	86
The timer does not work.	<ul style="list-style-type: none"> ● Set the clock as described in <Setting the System Clock>. ● Set a start time and end time for the program timer. 	86 81

Tuner

Symptoms	Solution	Ref. page
No radio reception	<ul style="list-style-type: none"> ● Connect the antennas. ● Select the broadcast band (AM or FM). ● Tune the radio to the frequency of the desired station. 	10 54 54, 55
Interference (noise)	<ul style="list-style-type: none"> ● Install an outdoor antenna away from roads. ● Turn off any electrical appliances that may be causing interference. ● Move the system away from the TV. 	—
I have used Auto Memory and pressed the [P.CALL] key, but I still can't get radio reception.	<ul style="list-style-type: none"> ● Run Auto Memory again. ● Manually preset stations with frequencies that you can receive. 	56 57



CD/DVD

Symptoms	Solution	Ref. page
A CD/DVD does not play back when loaded.	<ul style="list-style-type: none"> ● Load the disc correctly with the label side facing upward. ● Clean the disc. (See <Care and Storage>.) ● Allow any condensation to evaporate. (See <Be careful of condensation>.) 	<p>30 105 105</p>
No sound/picture output	<ul style="list-style-type: none"> ● Press the [CD/DVD ►] key. ● Clean the disc. (See <Care and Storage>.) ● Check every cord for correct connection. 	<p>30 105 10-15</p>
Playback skips.	<ul style="list-style-type: none"> ● Clean the disc. (See <Care and Storage>.) 	105
Some files can't play back.	<ul style="list-style-type: none"> ● The system will not play files that are corrupted. ● Make sure the file is supported for playback on the system. 	26
Delay until playback starts.	<ul style="list-style-type: none"> ● There may be a delay prior to playback if there are large numbers of folders. 	37
TAG information is not displayed correctly.	<ul style="list-style-type: none"> ● Refer to <Supported Audio Files> to check which TAG information can be displayed on this system. 	26
The subtitle is not displayed.	<ul style="list-style-type: none"> ● The subtitle cannot be displayed when the DVD disc being played does not contain the recording of subtitles. ● Press the [SUBTITLE] key to switch on the subtitle mode. 	44
The voice (or subtitle) language cannot be changed.	<ul style="list-style-type: none"> ● The voice (or subtitle) language cannot be changed when the DVD disc being played does not contain the recording of more than 1 voice (or subtitle) language. 	—
The viewing angle cannot be changed.	<ul style="list-style-type: none"> ● The viewing angle cannot be changed when the DVD disc being played does not contain the recording of more than 1 angle. ● More than 1 viewing angle may be recorded only in limited sections in a disc. 	—
The voice or subtitle language selected in the initial setting is not played.	<ul style="list-style-type: none"> ● Use a DVD disc containing the recording of the selected voice or subtitle language. ● Press the [SUBTITLE] or the [AUDIO] key on the remote and select the language. ● The DVD specifications provide for selection at the menu screen. Select at the menu screen of the disc. 	<p>44 34</p>
A VCD cannot be played using menus.	<ul style="list-style-type: none"> ● Menu playback is available only with VCD discs recorded with P.B.C. 	—

iPod

Symptoms	Solution	Ref. page
The iPod cannot be attached firmly.	<ul style="list-style-type: none"> Check to see whether the correct Dock adapter is used. Then check to see whether the connector between the iPod and the system is not damaged, and reconnect them. 	13
The iPod does not provide sound.	<ul style="list-style-type: none"> The iPod is not properly connected. Remove the iPod from the system, and then connect it again. 	13
The iPod cannot be charged.	<ul style="list-style-type: none"> The iPod is not properly connected. Remove the iPod from the system, and then connect it again. 	13



USB

Symptoms	Solution	Ref. page
No sound output when USB flash memory or a USB audio player is connected.	<ul style="list-style-type: none"> ● Plug in the USB flash memory correctly. ● Connect the USB cable correctly. ● Check to make sure the USB audio player is turned on. 	<p>13 62</p>

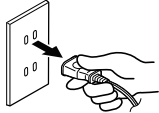


Components connected to the D.AUDIO IN terminal

Symptoms	Solution	Ref. page
The main unit and remote control cannot control a Kenwood digital audio player.	<ul style="list-style-type: none"> ● Connect the player using the dedicated cable PNC-150. ● Check whether the connected model is compatible. 	<p>14 66</p>

Remote control

Symptoms	Solution	Ref. page
The remote control does not work.	<ul style="list-style-type: none"> ● Load new batteries. ● Use the remote control within its effective range. ● Certain operations are not available for some discs. 	<p>19 19</p>

Resetting the microcomputer

Symptoms	Solution
<p>Microcomputer malfunction (the system does not work, the display is faulty, etc.).</p>	<ul style="list-style-type: none"> ● Malfunctions may occur due to an external cause or because a connection cord was unplugged while the system was turned on. Use the procedure below to reset the microcomputer. <ol style="list-style-type: none"> ① Unplug the power cord from the AC wall outlet.  ② Plug the power cord back in while holding down the power [⏻] key on the main unit.  ③ Upon the start of the microcomputer resetting, the display shown on the right appears. <ul style="list-style-type: none"> ● During the resetting of microcomputer, the display goes out.  ④ When finish resetting, it turns to Standby Mode. <ul style="list-style-type: none"> ● Bear in mind that resetting erases any stored information and restores the system's default settings.



Glossary of Terms

Term	Meaning	Page
AAC	An abbreviation for "Advanced Audio Coding". This is a compression standard that applies only to the audio component in image compression methods used for digital broadcasting, etc.	26
Bitrate	A value indicating the amount of information processed per second. The higher the bitrate, the better the sound quality.	26
CD-DA	Refers to music CDs. Almost all discs normally referred to as "CDs" are actually CD-DA discs.	24
CONEQ	CONEQ equalizes acoustic power frequency response and corrects phase and time alignment errors of a speaker system. Speakers with CONEQ perform as electro-acoustic transducers providing true to the original sound with the highest musicality and intelligibility.	71
MP3	An audio compression method developed by Germany's Fraunhofer IIS, which achieves high rates of data compression by discarding data not readily audible to humans. MP3 can compress data down to rates of approximately 1/11 (128 kbps) while retaining sound quality equivalent to a music CD.	26
Sampling frequency	A value that indicates the number of times per second analog signals are sampled for conversion to digital signals. The sampling frequency for music CDs is 44.1 kHz. Normally, the higher the sampling frequency, the better the sound quality.	26
TAG information	Information included in audio files, such as title, artist, album, and genre.	27
USB	A standard for the interface to connect peripheral devices to a computer. This system supports USB 1.1 and 2.0.	24
USB mass storage class	A standard for computer control of a USB device. It also makes it possible for a computer to recognize a connected USB device as an external storage device.	24
WMA	An abbreviation for the "Windows Media™ Audio" audio compression and encoding system developed by Microsoft Corporation of the U.S.	26
HDMI	HDMI (High-Definition Multimedia Interface) is a standard developed based on DVI (Digital Visual Interface) and features the capability of transferring both non-compressed digital video and multi-channel digital audio through a single cable.	12
DVI	DVI (Digital Visual Interface) is the standard for connection between PC and display.	12
HDCP	HDCP (High-bandwidth Digital Contents Protection) is copyright protection technology for prevention of illegal duplication of video contents. It is used in encryption of digital interfaces such as DVI and HDMI.	12

Care and Storage

Care and storage of main unit

■ Keep the system out of the following locations

- Areas exposed to direct sunlight.
- Areas subjected to excessive humidity or dust.
- Areas exposed to direct heat from heating equipment.

■ Be careful against condensation

Extreme differences between system temperature and air temperature can cause water droplets (condensation) to form on the system. The system will not operate properly while condensation is present. If condensation forms, do not use the system for a few hours to allow the condensation to dry.

Take special care against condensation when the system is moved between 2 locations of very different temperatures, or into a room where high humidity is present.

■ When a main unit becomes dirty

When the front panel or case gets dirty, wipe it with a soft dry cloth. Never use lacquer thinner, benzene, alcohol or contact revitalizer, which will cause discoloration or deformation.

Care and storage of discs

■ Storing a disc

If you do not plan to use a disc for a long time, remove it from the main unit and store it in its case.

■ Cleaning a disc

- When a disc is contaminated with fingerprints or other stains, wipe gently in the radial direction using a soft dry cloth.
- Do not use a phonograph record cleaner, lacquer thinner, benzene or alcohol to clean discs.
- Do not use any disc accessory (stabilizer, protective sheet, protective ring, etc.) or lens cleaner.

■ Other cautions

- Do not write on a disc with a pencil or ballpoint pen.
- Do not use a disc if its sticker or label is peeling or if any adhesive is coming out from under the sticker or label.
- Do not affix paper, stickers or labels to discs.



Specifications

Main unit

[Amplifier]

Effective output power during STEREO operation.....	40 W+40 W RMS (1kHz, 10%T.H.D., 4 Ω)
Total harmonic distortion.....	0.03% (1 kHz, 1 W, 4 Ω)
Tone control characteristics	
BASS	
(TURN OVER 100 Hz).....	±4.0 dB (at 100 Hz)
(TURN OVER 150 Hz).....	±6.6 dB (at 100 Hz)
(TURN OVER 200 Hz).....	±7.5 dB (at 100 Hz)
MID	
(TURN OVER 1 kHz).....	±8.0 dB (at 1 kHz)
(TURN OVER 2 kHz).....	±8.0 dB (at 2 kHz)
(TURN OVER 3 kHz).....	±8.0 dB (at 3 kHz)
TREBLE	
(TURN OVER 5 kHz).....	±7.6 dB (at 10 kHz)
(TURN OVER 7 kHz).....	±6.7 dB (at 10 kHz)
(TURN OVER 10 kHz).....	±4.0 dB (at 10 kHz)
D-Bass (+10).....	+15.9 dB (60 Hz, Vol. 60)
Input terminals (Sensitivity/Impedance)	
LINE (AUX).....	450 mV / 22 kΩ
LINE (D.AUDIO).....	250 mV / 11 kΩ
Output terminals (Level/Impedance)	
SUB WOOFER PRE OUT.....	1 V / 10 kΩ

[Digital unit]

Sampling frequencies.....	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
Supreme EX (DVD/CD, D-IN, iPod, USB)	
Playable frequencies.....	1 Hz — 24 kHz
Digital input terminals (Sensitivity/Wave length)	
Optical.....	-15 dBm — -24 dBm, 660 nm ±30 nm
Output terminals (Level/Wave length)	
Optical.....	-21 dBm — -15 dBm, 660 nm

[USB]

Usable USB device.....	USB Mass storage class
Interface.....	USB2.0 (Full speed) USB1.1 compatible
File system.....	FAT 16/32
Supply current.....	Max. 500 mA

[Tuner]

FM tuner	
Reception frequency range.....	87.5 MHz to 108 MHz
Antenna impedance.....	75 Ω unbalanced
AM tuner	
Reception frequency range	
Europe/ Australia.....	531 kHz to 1,602 kHz
US.....	530 kHz to 1,700 kHz

[DVD player]

Scanning method.....	Semiconductor laser
Video Output format.....	NTSC/ PAL
Composite video output level.....	1 Vp-p (75Ω)
HDMI output terminal.....	Type A (19 PIN)

[Power supply, etc.]

Standby power consumption.....	1 W or less
Power consumption.....	35 W
Dimensions	
Width.....	200 mm
Height.....	95 mm
Depth.....	299 mm
Weight (net).....	2.3 kg

[Speaker]

Enclosure.....	Bass-reflex
Speaker unit	
Woofer.....	110 mm Cone type
Tweeter.....	25 mm Dome type
Rated impedance.....	4 Ω
Max input power.....	40 W
Dimensions	
Width.....	140 mm
Height.....	237 mm
Depth.....	236 mm
Weight (net).....	3.4 kg (each)

Notes:

- Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
- Sufficient performance may not be exhibited at extremely cold locations (where water freezes).

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

Kenwood Corporation
2967-3, ISHIKAWA-MACHI,
HACHIOJI-SHI
TOKYO, JAPAN

KENWOOD CORP. CERTIFIES THIS EQUIPMENT
CONFORMS TO DHHS REGULATIONS NO.21 CFR
1040. 10, CHAPTER 1, SUBCHAPTER J.

Location : Back Panel

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

NOTE

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

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

This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs. When recording and playing the pictures of these discs picture noise will appear.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p UNIT, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

Manufactured under license from Real Sound Lab, SIA.
CONEQ is a trademark of Real Sound Lab, SIA.



This symbol is labeled on the products whose impacts on the environment are minimized by Kenwood.

KENWOOD

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model _____
Serial Number _____