KENWOOD

COMPACT HI-FI COMPONENT SYSTEM

R-K711

INSTRUCTION MANUAL

Kenwood Corporation

CE

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

Manufacturer:
Kenwood Corporation
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EU Representative's:
Kenwood Electronics Europe BV
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COMPACT disc DIGITAL AUDIO TEXT   CD-R/RW PLAYBACK   ∑DSP PERFORMANCE AUDIO   AAC MP3 WMA   RDS

Safety Precautions

Before Applying Power

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

Units are designed for operation as follows.

Australia ....AC 240 V only
Europe ....AC 230 V only

Safety precautions

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

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

⚡	THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.
⚠	THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

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 Instructions

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

Retain Instructions

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

Heed Warnings

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

Follow Instructions

– All operating and use instructions should be followed.

1. Cleaning

– 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

– Do not use attachments not recommended by the product manufacturer as they may cause hazards.

3. Water and Moisture

– 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

– Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

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, and these openings must not be blocked or covered. 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

– This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

IMPORTANT SAFETY INSTRUCTIONS

8. Power Cord Protection

– Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

9. Lightning

– For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

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

– Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a) When the power-supply cord or plug is damaged,

b) If liquid has been spilled, or objects have fallen into the product,

c) If the product has been exposed to rain or water,

d) If the product does not operate normally by following the operating instructions.

e) If the product has been dropped or damaged in any way, and

f) When the product exhibits a distinct change in performance – this indicates a need for service.

g) If an abnormal smell or smoke is detected.

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.
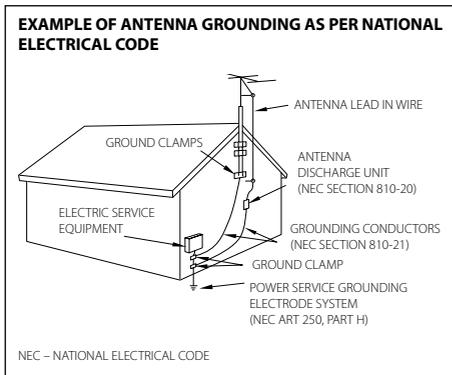
17. Heat

– This product should be situated away from heat sources such as radiators, heat registers, stoves, or other products 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.

19. Outdoor Antenna Grounding

– If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE

ANTENNA LEAD IN WIRE

GROUND CLAMPS

ANTENNA
DISCHARGE UNIT
(NEC SECTION 810-20)

ELECTRIC SERVICE
EQUIPMENT

GROUNDING CONDUCTORS
(NEC SECTION 810-21)

GROUND CLAMP

POWER SERVICE GROUNDING
ELECTRODE SYSTEM
(NEC ART 250, PART H)

NEC – NATIONAL ELECTRICAL CODE

Notes:
1. Item 7 is not required except for grounded or polarized equipment.
2. Item 19 complies with UL in the U.S.A.

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

Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste. Old electrical and electronic equipment 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.

What the R-K711 Can Do

Wide range of recording formats
Play Discs

As well as music CDs, the R-K711 will also play discs containing recorded audio files (MP3/WMA/AAC).

Supports a host of component types
External Input Terminals

As well as analog input terminals for record players or cassette decks, the R-K711 also features an input terminal for digital audio players.

It even has a digital input terminal with sampling rate converters so that you can use components such as digital tuners.

Create the perfect sound space for your installation setting
Room Equalizer

The R-K711 automatically optimizes the audio settings for your room layout and system location.

You simply set up the microphone supplied with the R-K711 in the listening position and then start up the Room Equalizer.

Realistic audio playback with near-original sound
Supreme EX

Original Kenwood audio enhancement technology that reproduces the high-bandwidth component in the original sound produces incredibly realistic audio that restores almost all the nuances of the original performance.

This reproduces high-range bands of 20 kHz and higher from audio CD or digital input.

It also reproduces the high-range bands lost through data compression when you play audio files (MP3/WMA/AAC).

Choose your favorite audio quality
Digital Sound Equalizer Function

This includes "TONE/TURN OVER", 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 add super-bass functionality.

You can also register 3 pre-loaded "sound presets" for each setting, making it even easier to select your favorite sound quality.

Contents

To ensure safety, read the items carrying this marking carefully.

Before Using the System

Be sure to read these precautions.

Procedures by Input Source ▶▶ P.25

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

• CD
• Receiving Broadcast Stations
• RDS (Radio Data System)
• External Components
• D.AUDIO

Audio Settings ▶▶ P.47

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

• ROOM EQ (Room Equalizer)
• Digital Sound Equalizer
• Sound Presets
• Supreme EX
• BALANCE

Component Settings ▶▶ P.61

This chapter explains how to select the settings for the R-K711.

• Setting the Timer
• Display Settings
• Setting the Time
• Auto Power Save (A.P.S.)

Maintenance ▶▶ P.71

This chapter explains how to store and maintain your system so that it continues to give pleasure for many years to come.
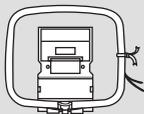
• Messages
• Troubleshooting
• Glossary of Terms
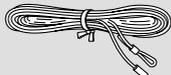• Care and Storage
• Specifications

Accessories

Check that all accessories are present in the package.
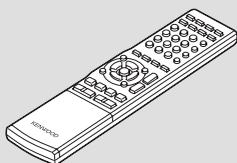
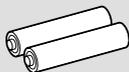| AM loop antenna (1) | FM indoor antenna (1) | Microphone for Room Equalizer (Cord length: Approx. 5 m: 1) |

| Remote control (RC-RP0705E: 1) | Batteries for the remote control (R03: 2) |

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.
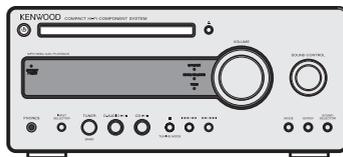
Installing the System
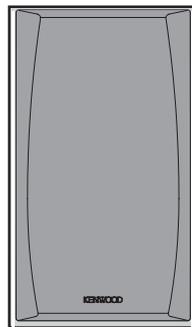
Notes on installing the system

- 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 an object that may hinder heat radiation on the system.
- 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 that the power outlet is easily accessible from the user, and unplug the power cord from the power outlet immediately in case of a trouble.
Note that the power supply to the system is not shut down completely by simply setting the power key to OFF.
To shut down the power supply completely, it is required to 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 surroundings for 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.
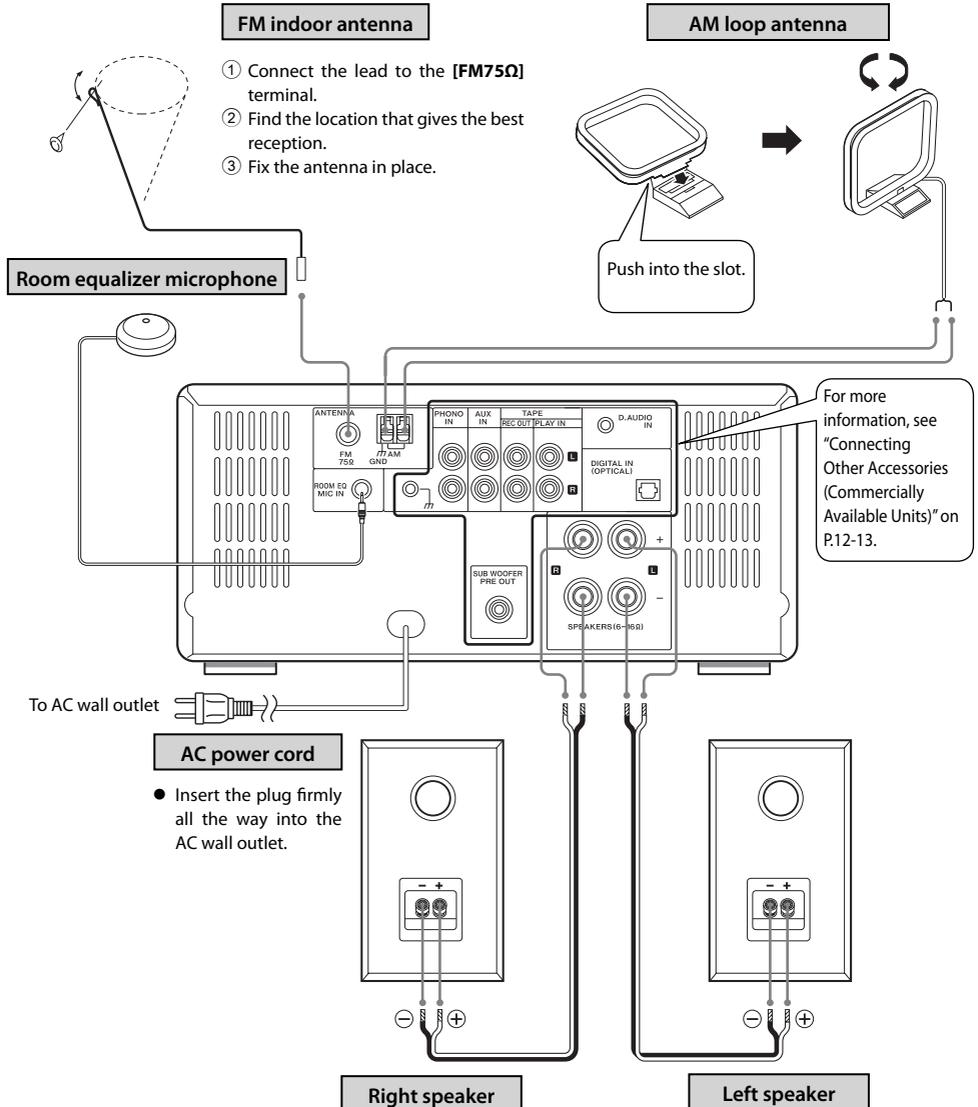
Connecting the System

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 main unit off and unplug the power cord from AC wall outlet.

FM indoor antenna

① Connect the lead to the **[FM75Ω]** terminal.
② Find the location that gives the best reception.
③ Fix the antenna in place.

AM loop antenna

Push into the slot.

Room equalizer microphone

For more information, see "Connecting Other Accessories (Commercially Available Units)" on P.12-13.

ANTENNA
FM 75Ω   AM GND
ROOM EQ MIC IN
PHONO IN
AUX IN
TAPE
REC OUT   PLAY IN
D.AUDIO IN
DIGITAL IN (OPTICAL)
L
R
SUB WOOFER PRE OUT
R   L
+
−
SPEAKERS (6~16Ω)

To AC wall outlet

AC power cord

● Insert the plug firmly all the way into the AC wall outlet.

− +

Right speaker

− +

Left speaker

| Microcomputer malfunctions |

If the system is connected correctly and still does not operate normally or shows display errors, reset the microcomputer. (P.75)

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**

Connect the AM antenna cord to the **[AM]** and **[GND]** terminals, as shown on the right.
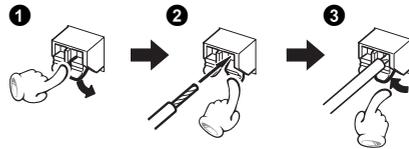
Connecting the FM indoor antenna

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 unit) 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 source (e.g. musical instruments) locations.

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

Twist the plastic sleeve on the end of the cord as you pull it off.
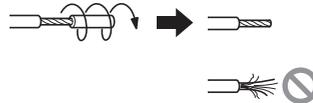
● **Connecting the speaker cords**
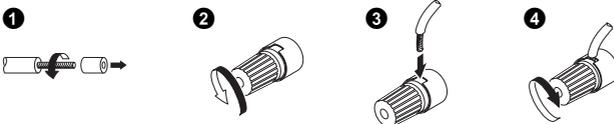
Connecting Other Accessories (Commercially Available Units)

● When a related system component is connected, read the instruction manual for that component also.

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

⚠ Caution for outdoor antenna installation

Since antenna installation necessitates skill and experience, always consult your dealer before installation. The antenna should be placed at a distance from the power distribution wires. Otherwise, an electric shock accident may occur if the antenna falls down.

PHONO IN

Connect record players with MM cartridges to the **[PHONO IN]** terminal on the rear panel of the main unit.

● The **[⏚]** (earth) terminal is used to reduce noise reduction when an analog record player is connected to the system. It is not an earth terminal for safety purposes.

● Record players with built-in equalizer amplifiers should be connected to the **[AUX IN]** terminal.

● You cannot connect a record player with an MC cartridge directly to the main unit. Connect a dedicated equalizer amplifier to the record player and then connect it to the **[AUX IN]** terminal.

Audio OUT

Signal earth lead

**Record player**

(with MM cartridge)
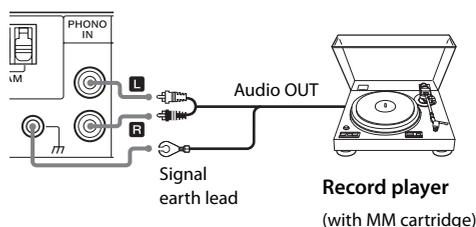
D.AUDIO IN

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, you can control the player from the main unit and the remote control. (P.44) It can be connected using a 3.5 mm stereo mini-plug cable (commercially available unit).

● When you are not using the digital audio player, unplug the mini-plug cable from the main unit.
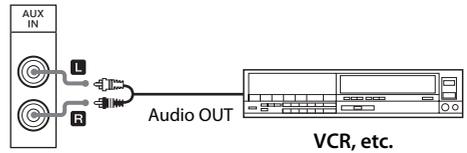

Digital audio player
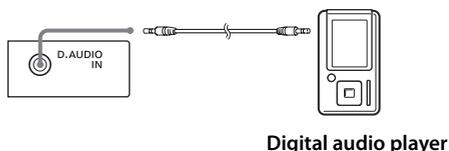
TAPE REC OUT/PLAY IN

Connect the audio output and audio input terminals on the cassette deck to the **[TAPE PLAY IN]** and **[TAPE REC OUT]** terminals respectively on the rear panel of the main unit.

TAPE
REC OUT PLAY IN

Audio OUT

Audio IN

Cassette deck
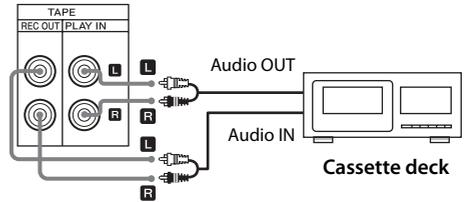
AUX IN

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

AUX
IN

Audio OUT

VCR, etc.

DIGITAL IN (OPTICAL)

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.

● Set the digital audio output on connected components to "PCM".

DIGITAL IN
(OPTICAL)

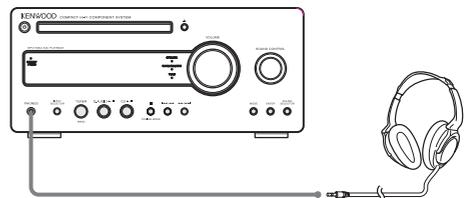Optical digital output
(PCM signals)

Digital tuner, etc.
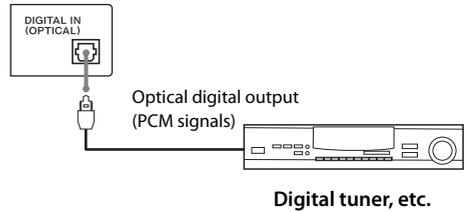
SUB WOOFER PRE OUT

Connect a subwoofer (such as the optional SW-40HT) to the **[SUB WOOFER PRE OUT]** terminal on the rear panel of the main unit.
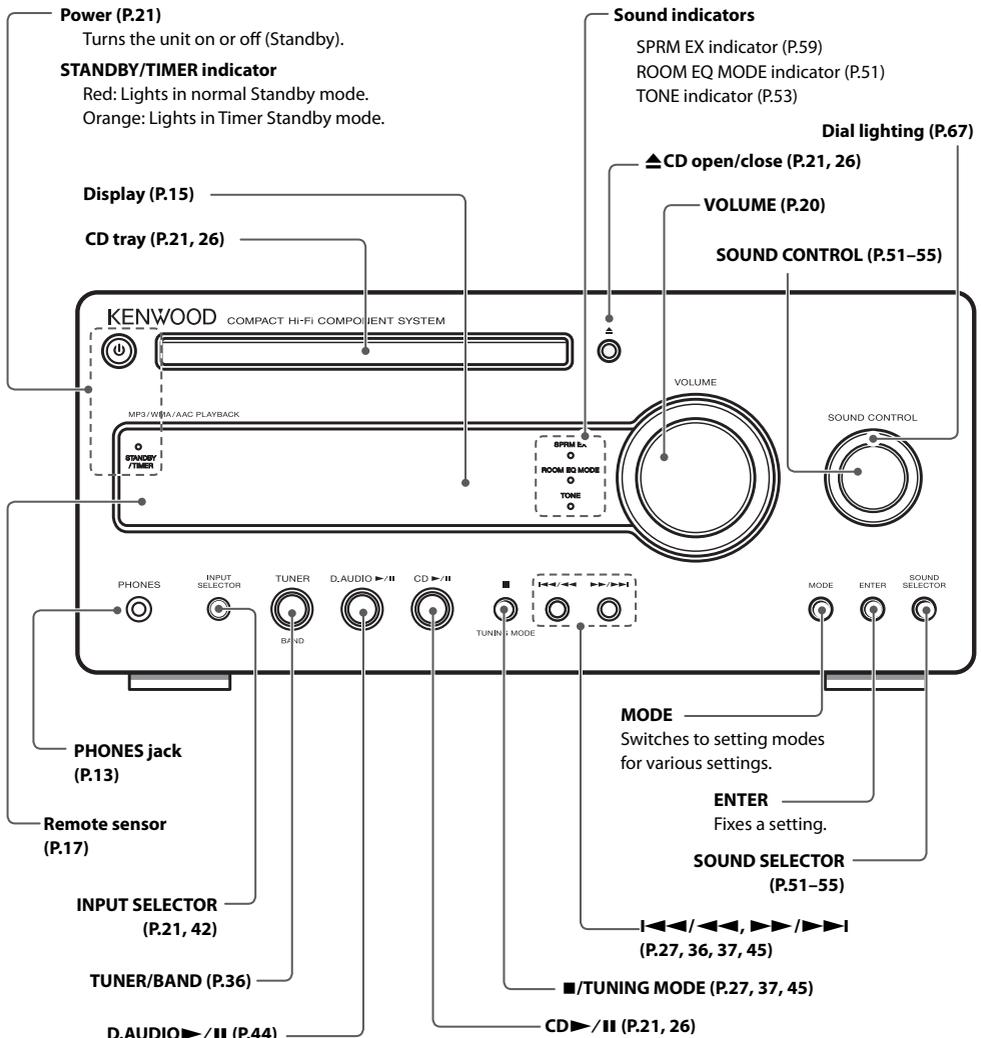
SUB WOOFER
PRE OUT

Powered Subwoofer
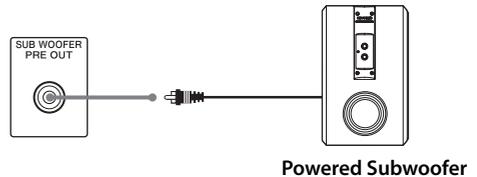
PHONES

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

Component Names and Functions

Main unit

Power (P.21)
Turns the unit on or off (Standby).

STANDBY/TIMER indicator
Red: Lights in normal Standby mode.
Orange: Lights in Timer Standby mode.

Display (P.15)

CD tray (P.21, 26)

Sound indicators
SPRM EX indicator (P.59)
ROOM EQ MODE indicator (P.51)
TONE indicator (P.53)

Dial lighting (P.67)

▲CD open/close (P.21, 26)

VOLUME (P.20)

SOUND CONTROL (P.51–55)

KENWOOD   COMPACT Hi-Fi COMPONENT SYSTEM

MP3/WMA/AAC PLAYBACK

STANDBY /TIMER

SPRM EX
ROOM EQ MODE
TONE

VOLUME

SOUND CONTROL

PHONES   INPUT SELECTOR   TUNER   D.AUDIO ►/❙❙   CD ►/❙❙   ■   ❙◄◄/◄◄   ►►/►►❙   MODE   ENTER   SOUND SELECTOR

BAND   TUNING MODE

PHONES jack (P.13)

Remote sensor (P.17)

INPUT SELECTOR (P.21, 42)

TUNER/BAND (P.36)

D.AUDIO►/❙❙ (P.44)

MODE
Switches to setting modes for various settings.

ENTER
Fixes a setting.

SOUND SELECTOR (P.51–55)

❙◄◄/◄◄, ►►/►►❙ (P.27, 36, 37, 45)

■/TUNING MODE (P.27, 37, 45)

CD►/❙❙ (P.21, 26)

Standby Mode

While the **[STANDBY/TIMER]** indicator on the main unit is lit, the unit is using a very weak current to maintain the built-in memory. This is called Standby mode. When the main unit is in this mode, you can turn it on using the remote control.

One-touch Operation

The main unit features a convenient one-touch operation function. When the main unit is in Standby mode, you can turn it on by pressing the **[TUNER/BAND]**, **[CD►/❙❙]** or **[D.AUDIO►/❙❙]** key. If there is a disc in the unit, playback begins.

Display

REPEAT
Lights during CD all-tracks repeat playback. (P.35)

REPEAT ONE
Lights during CD single-track repeat playback. (P.35)

Displays numbers and text.

Lights when there is a CD in the CD tray. (P.26)

TUNED
Lights when you are tuned to a radio station. (P.37)

ST.
Lights when you are receiving a stereo broadcast. (P.37)

AUTO
Lights during auto tuning. Turns off during manual tuning. (P.37)

RDS
Lights when an RDS broadcast is received. (P.40)

PTY
Lights in the PTY search mode.

Lights when an audio file or folder is selected. (P.31)

Flashes when the sound is muted. (P.20)

Displays the sound preset number. (P.56, 57)

Lights when CD playback is paused. (P.27)

Lights during CD playback. (P.26)

Lights in CD random playback mode. (P.34)

Lights in CD program playback mode. (P.32)

Lights when the program timer is set. (P.63)

Lights when the sleep timer is set. (P.62)

Lights when Auto Power Save (A.P.S.) is set. (P.70)
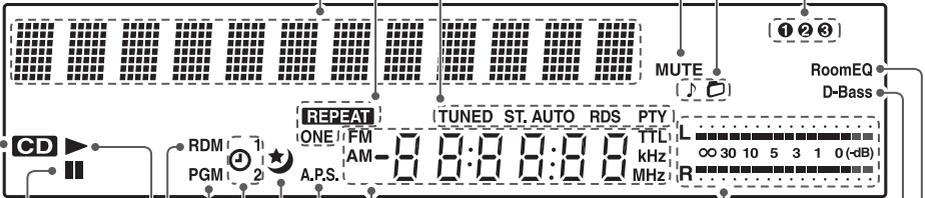
Displays the level meters. You can turn this display on or off. (P.67)

Displays the clock, the elapsed time or the frequency.

FM
Lights in FM reception mode. (P.37)

AM
Lights in AM reception mode. (P.37, 69)

TTL
Lights during CD playback when the elapsed time and remaining time for the entire disc are displayed. (P.28)

kHz
Displays the AM reception frequency.

MHz
Displays the FM reception frequency.

Lights when a super-bass (D-BASS) level is selected. (P.52)

Lights when measurement of the room's acoustic characteristics is completed. (P.49)

Remote control

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

Sets the timer.
(P.62–66)

Turns the unit on or off (Standby).
(P.21)
Turns the unit on or off (Standby).
Turns the main unit on when the
[STANDBY/TIMER] indicator on the
main unit is lit.

Selects external
components.
(P.21, 42)

Selects folders.
(P.31, 45)

Selects the information shown
on the display.
(P.28, 29, 40)

Numbers.
Selects tracks or stations.
(P.32, 36, 40, 41)

Selects the CD playback mode.
(P.32, 34, 35)

Clears the settings.
Performs PTY search.
(P.32, 33, 41)

Sets the sound quality.
(P.48–58)

Fixes a setting.

Adjusts the volume.
(P.20)

Sets display settings.
(P.67)

Sets the sound quality or
component.

Selects input source.
Starts playback.
(P.21, 26, 36, 44)

Stops playback.
Selects the radio station
selection mode. (P.27, 37, 45)

Selects tracks or
stations.
Sets the MODE function.
(P.27, 36, 45)

Skips back or forward through
the tracks and selects the radio
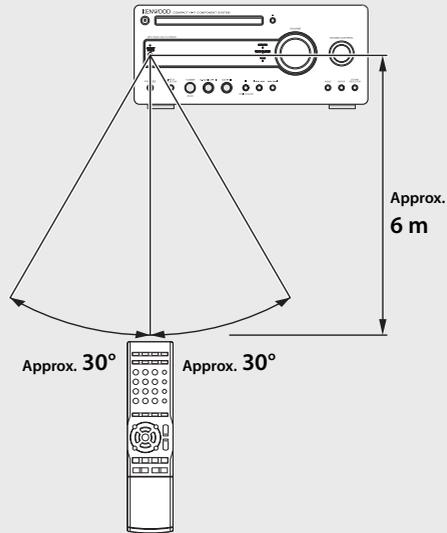station. (P.27, 37, 45)
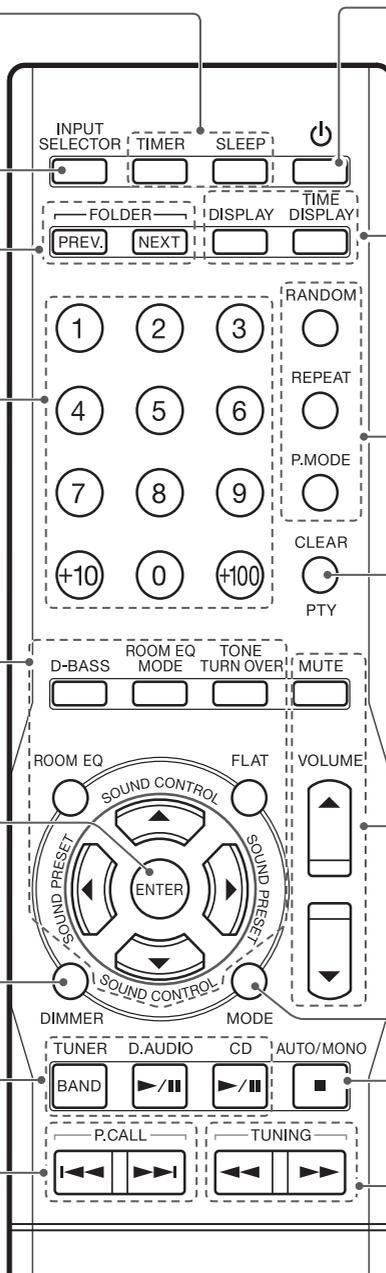
Using the remote control

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

Approx.
6 m

● 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, install the main unit in a different location to avoid this sort of malfunction.

Approx. 30° **Approx. 30°**
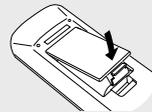
Loading the remote control batteries

① **Remove the battery cover.**
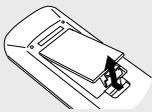
② **Load the R03 batteries supplied with the system.**
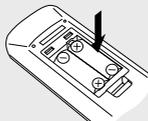
③ **Close the battery cover.**

● Check the polarity of the batteries (⊕, ⊖) when loading them.

● The batteries supplied with the system are only for operation checking and may only last for a short time.

● When replacing the batteries, always load 2 new batteries.

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.

⌾ CD

Playing a CD. As well as normal playback, you can use folder playback, program playback, random playback and repeat playback.

Playing a CD

CD tray

Load and play a CD.

● If you have already loaded a disc, just press the **[CD▶/❚❚]** key to turn the system on and begin playback.

1 **Press the [⏏] key on the main unit to open the CD tray and then load the CD.**

● Load the disc that the labeled side faces upwards and the disc sits snugly in the tray.

2 **Press the [⏏] key on the main unit to close the CD tray.**

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

3 **Press the [CD▶/❚❚] key.**

```
CD   T01
●●●▶              0:12
```

● The system displays text information such as track names and album names for CD-TEXT discs.

Track number during playback

Elapsed time of the track being played

A CD is loaded in the tray.

💡 ● When you play the following types of disc, track numbers may not be displayed correctly.
  – 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
  * Mix mode is a mode in which the CD-DA format is combined with audio file such as MP3, WMA and AAC.

Display shown during or after an operation

● The displays shown in this instruction manual may differ from the actual displays.
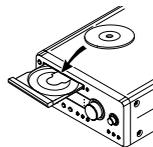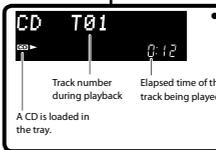
Remote control keys used in the procedure

Explanations of main unit procedures

Explanations of remote control procedures

Related functions that may also be helpful

Operation icons	
💿	Explains the procedure for CDs.
📻	Explains the procedure for the radio.
⚡🔌	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.

D.AUDIO

Related Information	● Adjusting the Digital Audio Player Input Level → P.46 ● Audio Settings → P.47 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 **[I◄◄]** or **[►►I]** key.	Hold down the **[I◄◄/◄◄]** or **[►►/►►I]** key.

Pausing and resuming playback

Press the **[D.AUDIO►/II]** key.	Press the **[D.AUDIO►/II]** key.

Stopping playback

Press the **[■]** key.	Press the **[■]** 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 two or more times in succession.	Press the **[I◄◄/◄◄]** key two or more times in succession.

Return to the start of the track

|	
Press the **[I◄◄]** key once.	Press the **[I◄◄/◄◄]** key once.

Basic Operation

This section describes some basic procedures for using the system, such as tuning the radio and playing audio from a CD, a digital audio player and an external component.

Preparations

Check the connections. (P.10–13)
Have the remote control ready. (P.17)

■ Adjusting the volume

Lowers the volume   Raises the volume

Raises the volume
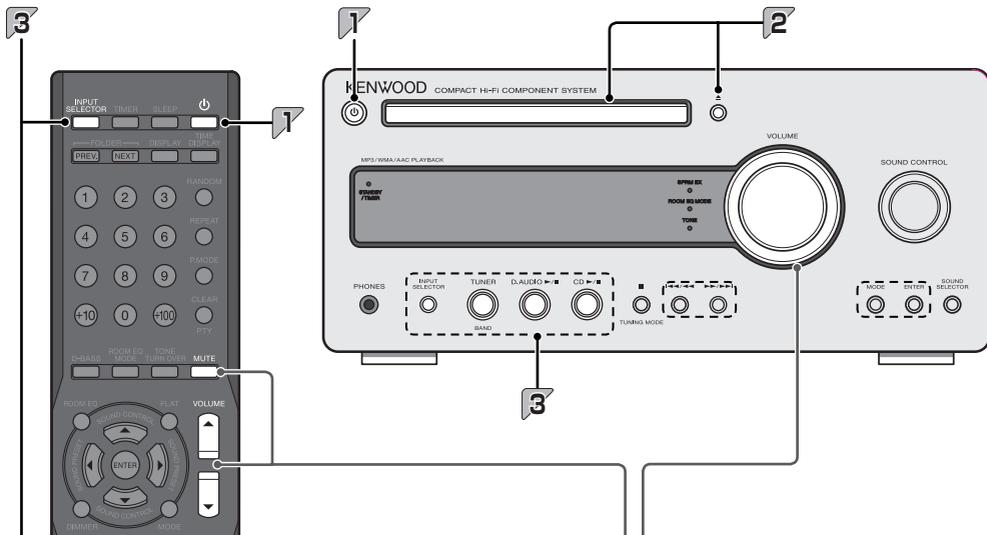
Lowers the volume
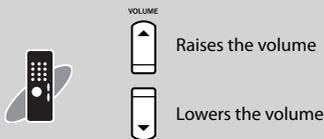
■ Mute

MUTE

● Press this key again to unmute the sound.

1 | Turn the system on (off).

- You can also turn the system on by pressing the **[TUNER/BAND]**, **[D.AUDIO▶/❙❙]**, **[CD▶/❙❙]** or **[INPUT SELECTOR]** key.
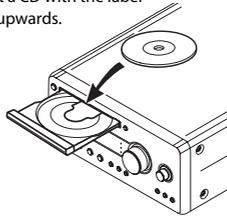- Pressing the power **[⏻]** key when the unit is on turns it off (Standby mode).

2 | Insert a disc (when listening to a CD).

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

| Open the tray. | Insert a CD. | Close the tray. |

Insert a CD with the label side upwards.

Press the [⏏] key.
(Only available on the main unit.)

3 | Play.

Press the Play/Pause key for the input source. See "Procedures by Input Source" (P.25–46) for details.

TUNER   D.AUDIO ▶/❙❙   CD ▶/❙❙   INPUT SELECTOR

BAND

TUNER   D.AUDIO   CD   INPUT SELECTOR

BAND   ▶/❙❙   ▶/❙❙

- You can set your preferred sound quality. See "Audio Settings" (P.47–60) for details.

Important Information

Supported Disc Formats

Disc	Icon in this manual	Explanation
Commercially available music CDs		● You may not be able to play discs that do not conform to the CD standard, such as Copy Control CDs.
CD-R/CD-RW discs recorded in CD-DA format		● Discs must be finalized during writing.
MP3/WMA/AAC files recorded on CD-ROM/CD-R/CD-RW discs		● Discs must be finalized during writing. ● In this manual, MP3, WMA and AAC files are referred to collectively as "audio files".

● Depending on the equipment or recording mode used for recording onto a CD-ROM, CD-R or CD-RW disc, and on the type of CD-ROM, CD-R or CD-RW disc used, you may not be able to play the disc on this system.

Precautions when writing data to discs

● Discs recorded in Packet Write mode or UDF (Universal Disc Format) cannot be played.

● When writing data to a disc, always close the session or finalize the disc. Discs that have not been finalized or that have sessions that were not closed may not play back correctly.

● Depending on the specifications of the writing software used, the recorded folder names and file names may not be displayed correctly.

● Playback of 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.

● Before writing audio files to a disc, check that the files will play back correctly on the PC being used to write the files. When writing ends, check that the written files are played back correctly.

● Use the correct file extensions (mp3, wma, m4a) in the names of audio files. Files without file extensions will not be played. Also, do not use audio file extensions (mp3, wma, m4a) for files that are not audio files. For more information on file extensions, see "Supported Audio Files" on the right.

Supported Audio Files

On this system, you can play CD-ROM, CD-R and CD-RW discs containing the audio file types listed below (MP3, WMA and AAC).

MP3 files

File formats: MPEG 1 Audio Layer 3/ MPEG 2 Audio Layer 3/ MPEG 2 Audio Layer 3, Lower sampling rate (MPEG 2.5)
Extension: .mp3
Sampling frequency:
MPEG 1 Audio Layer 3: 32 kHz/ 44.1 kHz/ 48 kHz
MPEG 2 Audio Layer 3: 16 kHz/ 22.05 kHz/ 24 kHz
MPEG 2.5: 8 kHz/ 11.025 kHz/ 12 kHz
Bit rate:
MPEG 1 Audio Layer 3: 32 kbps – 320 kbps
MPEG 2 Audio Layer 3: 8 kbps – 160 kbps
MPEG 2.5: 8 kbps – 160 kbps

WMA files

File format: Windows Media™ Audio compliant
Extension: .wma
Sampling frequency: 32 kHz/ 44.1 kHz/ 48 kHz
Bit rate: 48 kbps – 192 kbps

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

AAC files

File format: MPEG-4 AAC (created in iTunes™ 4.1 to 7.3)
Extension: .m4a
Sampling frequency: 16 kHz/ 22.05 kHz/ 24 kHz/ 32 kHz/ 44.1 kHz/ 48 kHz
Bit rate: 32 kbps – 320 kbps

● Files encoded using Apple's Lossless Encoder cannot be played.

Disc formats

ISO 9660 Level 1
ISO 9660 Level 2
Joliet
Romeo

File number limitations on discs

Max. files/folders: 512 in total
Max. folders: 255
Files per folder: 255

Maximum number of displayable characters

File names: 64 (including file extension)
Folder names: 64
Tag display (Title/Album/Artist)
ID3 v1.0/ 1.1: 30
ID3 v2.2/ 2.3/ 2.4: 128

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

Other notes

● Note that even where audio files comply with the above standards, playback may fail due to factors such as the disc characteristics or recording conditions.

● Playback may also 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.

● Apple and iTunes are trademarks 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.

Handling Discs

Handling precautions

Hold a CD 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 or the audio part of a CD-EXTRA disc.

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

If the CD-ROM, CD-R or CD-RW disc in use has a printable label surface, the disc may be unable to be taken out of the system due to sticking of the label surface. To prevent malfunction of the system, do not use such a disc.

Cautions on CD discs

Always use a disc carrying the ![COMPACT disc DIGITAL AUDIO] marking.

A disc without this marking may be unable to be played back correctly.

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.

Notes on transporting or moving the system

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

① Remove any CDs from the unit.

② Press the **[CD▶/Ⅱ]** key and check that the "CD NO DISC" message is displayed.

③ Wait a few seconds and then turn the system off.

④ If there are any other components connected to the system, check that they are all turned off before disconnecting the cables.

Procedures by Input Source

This chapter explains the operation procedures for each input source.
For information on the sound quality settings and component settings regardless of the input source, see "Audio Settings" (P.47) and "Component Settings" (P.61).
If an error is displayed or a problem arises, see "Maintenance" (P.71).

CD

Receiving Broadcast Stations

RDS (Radio Data System)

External Components

D.AUDIO

CD

Playing a CD. As well as normal playback, you can use folder playback, program playback, random playback and repeat playback.

CD tray

Playing a CD

Load and play a CD.

● If you have already loaded a disc, just press the **[CD▶/Ⅱ]** key to turn the system on and begin playback.

1 **Press the [▲] key on the main unit to open the CD tray and then load the CD.**

● Load the disc that the labeled side faces upwards and the disc sits snugly in the tray.

2 **Press the [▲] key on the main unit to close the CD tray.**

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

3 **Press the [CD▶/Ⅱ] key.**

CD T01
⊂⊃▶   0:12

● The system displays text information such as track names and album names for CD-TEXT discs.

Track number during playback

Elapsed time of the track being played

A CD is loaded in the tray.

● When you play the following types of disc, track numbers may not be displayed correctly.
  – 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

  * Mix mode is a mode in which the CD-DA format is combined with audio file such as MP3, WMA and AAC.

Related Information

● Audio Settings → P.47 onwards

■ Operations during CD playback

Selecting a track number

To play the 17th track, press the **[+10]** key and then the **[7]** key.
To play the 30th track, press the **[+10]** key three times and then press the **[0]** key.
To play the 105th track, press the **[+100]** key and then the **[5]** key.

Pausing and resuming playback

Press the **[CD▶/Ⅱ]** key.

Stopping playback

Press the **[■]** key.

Skipping forward/back

Hold down the **[◄◄]** or **[►►]** key.

Skipping tracks, skipping back, skipping to the start

To skip to the previous or next track: Press the **[I◄◄]** or **[►►I]** key.
To return to an earlier track: Press the **[I◄◄]** key two or more times in succession.
To return to the beginning of a track: Press the **[I◄◄]** key once.

MP3/WMA/AAC

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

● The Resume function also works if you switch to another input source during playback.

● To cancel the resume function, press the **[■]** key twice.
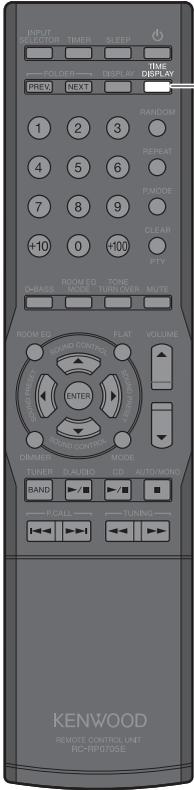
Switching the time display

CD

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

During CD track playback/Program playback/All-tracks repeat playback

Elapsed time for 1 track	▶	Remaining time for 1 track
Total remaining time	◀	Total elapsed time

During single-track repeat playback/Random playback

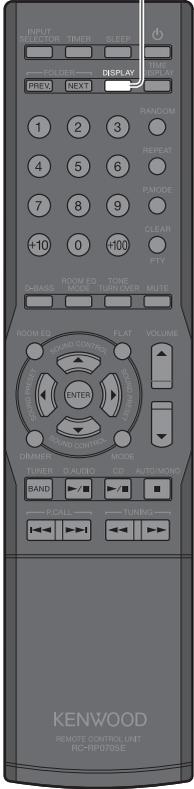| Elapsed time for 1 track	⟷	Remaining time for 1 track

● When the total displayed time is 1000 minutes or more, "–––:––" is displayed.

MP3/WMA/AAC

Only the elapsed time for 1 track is displayed.

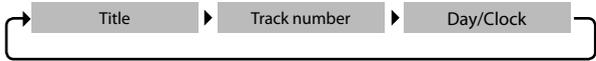## Selecting the display mode for CD-TEXT discs

CD

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

Title ▶ Track number ▶ Day/Clock

● For discs that do not support CD-TEXT, the display switches between the track number and the Day/Clock.
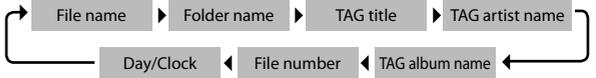
Selecting the TAG information display mode

MP3/WMA/AAC

TAG information such as track titles, artist names and album names recorded on audio files.
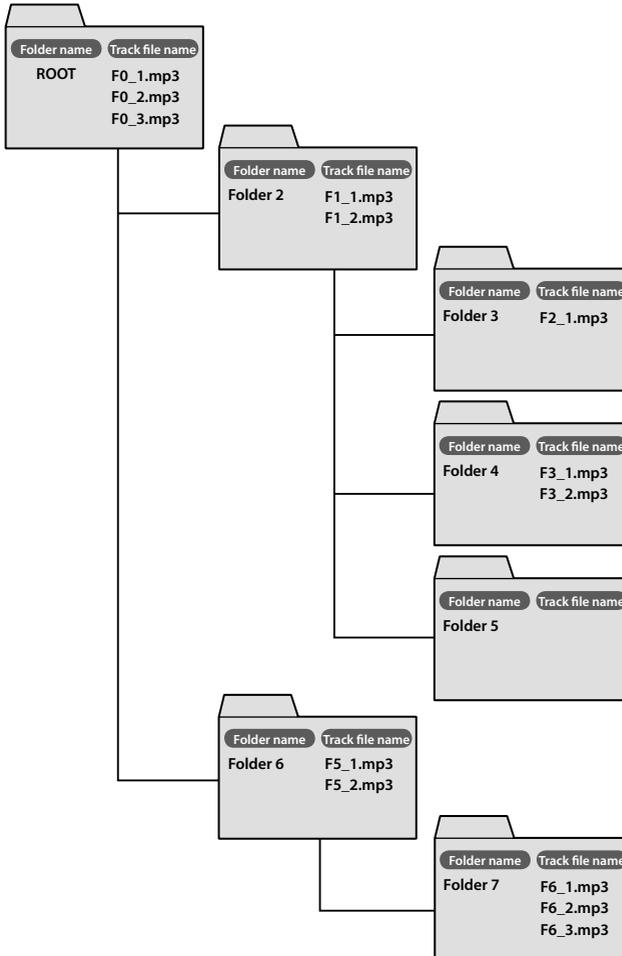The display changes as shown below each time you press the **[DISPLAY]** key.

File name ▶ Folder name ▶ TAG title ▶ TAG artist name
Day/Clock ◀ File number ◀ TAG album name ◀

● If there is no TAG information, "…………" is displayed.

● Depending on the settings and specifications of the software used for encoding, TAG information may not be displayed correctly.

■ Playback sequence for folders and track files

MP3/WMA/AAC

When you play a disc containing recorded audio 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

Folder name	Track file name
ROOT	F0_1.mp3 F0_2.mp3 F0_3.mp3

Folder name	Track file name
Folder 2	F1_1.mp3 F1_2.mp3

Folder name	Track file name
Folder 3	F2_1.mp3

Folder name	Track file name
Folder 4	F3_1.mp3 F3_2.mp3

Folder name	Track file name
Folder 5	

Folder name	Track file name
Folder 6	F5_1.mp3 F5_2.mp3

Folder name	Track file name
Folder 7	F6_1.mp3 F6_2.mp3 F6_3.mp3

■ Track file playback sequence

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

- If a recorded folder contains no tracks, that folder cannot be selected.
- Adding a number from "01" to "99" to the beginning of each file name before you record the files onto the disc allows you to set the playback sequence.
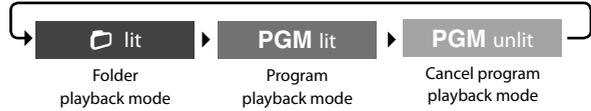
Selecting Folder Playback Mode

| MP3/WMA/AAC |

This mode plays only the files in the selected folder.

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

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

📁 lit ▶ **PGM** lit ▶ **PGM** unlit

Folder playback mode   Program playback mode   Cancel program playback mode

2 **Press the [PREV.] or [NEXT] key to select the folder to be played.**

3 **Press the [CD▶/ⅠⅠ] key to begin playback.**

KENWOOD

REMOTE CONTROL UNIT
RC-RP0705E

CD Program Playback Mode

This mode lets you selectively play your favorite tracks on a CD (up to 32 tracks).

● Press the **[CD▶/II]** key to switch the input source to CD.
Playback begins when you switch the input source, so press the **[■]** key to stop playback.

● If you are already playing the CD, press the **[■]** key to stop playback.
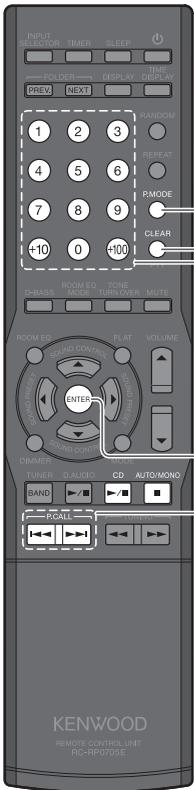
1 **CD**

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

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

PGM lit ▶ **PGM** unlit

Program playback mode | Cancel program playback mode

MP3/WMA/AAC

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

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

📁 lit ▶ **PGM** lit ▶ **PGM** unlit
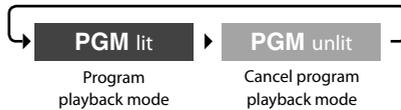
Folder playback mode | Program playback mode | Cancel program playback mode

❷ **Select the folder to be used for program playback.**

■ **Selection with number keys**

To select folder number 17, press the **[+10]** key and then the **[7]** key.
For folder number 30, press the **[+10]** key three times and then press the **[0]** key.
For folder number 105, press the **[+100]** key and then the **[5]** key.

▶ Press the **[ENTER]** key.

■ **Selection with the [I◀◀] or [▶▶I] key**
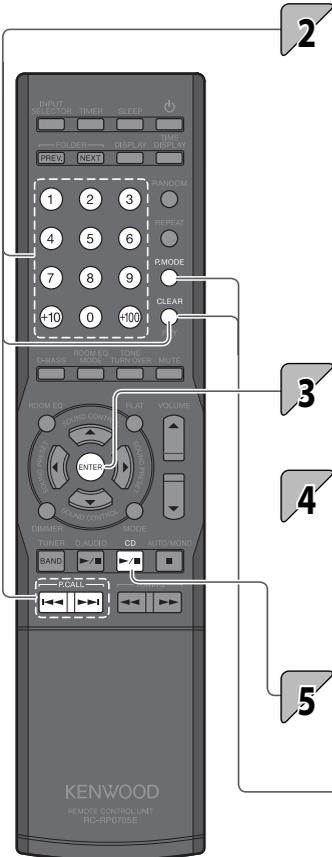
F158 Music 1

CD PGM

▶ Press the **[ENTER]** key.

When folder number 158 is selected.

● If you enter the wrong information, press the **[CLEAR]** key before pressing the **[ENTER]** key and then enter the information again.

● Press the **[ENTER]** key within 20 seconds after selecting a folder.

2 Press a number key or the [I◄◄]/[►►I] key to select the track or file you want to listen to.

CD	MP3/WMA/AAC
CD T10⇒P01	T005 Rainy D
CD PGM	CD PGM
When track number 10 is selected as program track 1	When file number 5 is selected

● If you enter the wrong information, press the **[CLEAR]** key before you proceed to step 3. Then enter the information again.

● Proceed to step 3 within 20 seconds after selecting a track or file.

3 Press the [ENTER] key.

4 To select two or more tracks, repeat steps 2 and 3 (CD), or steps 1-**②** to 3 (MP3/WMA/AAC).

● You can select up to 32 tracks. If you attempt to select more tracks, the "CD PGM FULL" message is displayed.

5 Press the [CD►/II] key to begin playback.

■ **To cancel program mode**

Stop playback and press the **[P.MODE]** key so that "PGM" is no longer displayed. This erases the selected program.

■ **To clear a programmed track**

Stop playback and then press the **[CLEAR]** key.
Each time you press the key, the last programmed track is erased.

■ **To add more tracks later**

If you are already playing a CD, stop playback and carry out steps 2 and 3 (CD) or steps 1-**②** to 3 (MP3/WMA/AAC).

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

CD Random Playback Mode

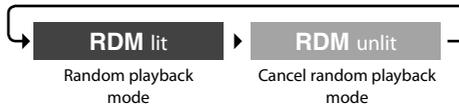**This mode plays the tracks in the current CD or in a folder in a random sequence.**

● If "PGM" is lit, turn it off by pressing the **[P.MODE]** key while playback is stopped.

1 **Press the [RANDOM] key.**

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

RDM lit	▶	**RDM** unlit
Random playback mode		Cancel random playback mode

■ **To cancel random playback mode**

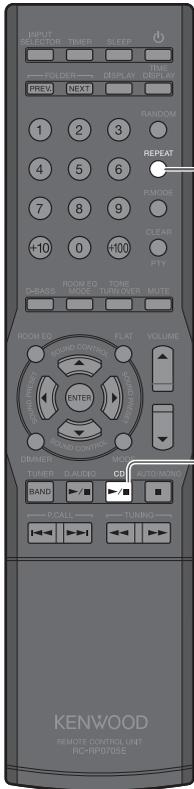Press the **[RANDOM]** key so that "RDM" is no longer displayed.

Pressing the **[■]** key during random playback cancels random playback mode and stops playback.

● During folder playback, this mode plays the files in the folder in random order.

● Pressing the **[|◀◀]** key skips back to the beginning of the track being played.

CD Repeat Playback Mode

This mode plays the tracks on a CD repeatedly.

1 Press the [CD▶/❙❙] 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.

REPEAT ONE lit	▸	REPEAT lit	▸	REPEAT unlit
Single-track repeat playback		All-track repeat playback		Cancel repeat playback

■ **To cancel repeat playback mode**

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

- If you press the **[REPEAT]** key during folder playback, "REPEAT" and "📁" lights up on the display and all-track repeat playback begins for the tracks in the folder.

- If you press the **[REPEAT]** key during program playback, "REPEAT" and "PGM" lights up on the display and repeat playback begins for the selected tracks.

- If you press the **[REPEAT]** key during random playback, "REPEAT" and "RDM" lights up on the display and random playback begins with different sequence once the current random sequence ends. If you are using folder playback, the tracks in the folder are played at random in a different sequence.

Receiving Broadcast Stations

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]** 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 stored stations (Preset Call)

Select a station that you have stored.

● See P.38, 39 for more information on presets.
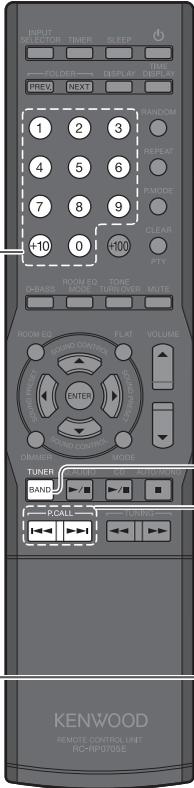
■ **Selection with the [P.CALL] keys**

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.

■ **Selection with number keys**

To select P17, press the **[+10]** key and then the **[7]** key.
To select P23, press the **[+10]** key twice and then press the **[3]** key.

Choosing from stations that are not stored (Auto/Manual tuning)

❶ Select Auto tuning or Manual tuning.

Press the [AUTO/MONO] key.

Press the [TUNING MODE] key.

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

AUTO lit	▶	AUTO unlit
Auto tuning (Select this mode when reception is good.)		Manual tuning (Select this mode when reception is poor.)

❷ Select a station.

Press the [TUNING ◄◄/►►] key.

Press the [I◄◄/◄◄◄] or [►►►/►►I] 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:
    Program service name → Preset No. → Day/Clock
  When the program service name is not stored:
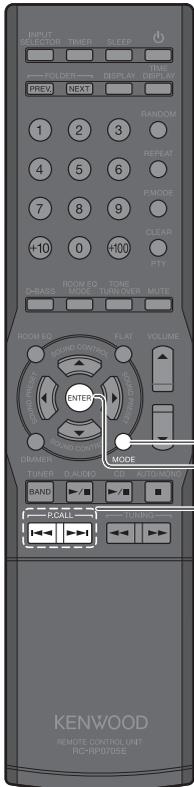   Preset No. → "NO PS" → Day/Clock
  AM:
    Preset No. → Day/Clock

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 **[I◄◄]** or **[►►I]** 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. 39)

Presetting Stations Manually (Manual Preset)

1 **Select a desired station.**

● Receive a station with either Auto Tuning or Manual Tuning. (P.37)

● To memorize an RDS station, wait for the station name to appear on the display before carrying out step 2.

2 **Press the [ENTER] key.**

MEMORY   P-- ——— The preset number flashes.

FM   TUNED ST. AUTO
100.00 MHz

3 **Select the desired preset number (P01 to P40).**

■ **Selection with the [P.CALL] keys**

Press the **[I◄◄◄]** or **[►►►I]** key.

■ **Selection with number keys**

To select P17, press the **[+10]** key and then the **[7]** key.
To select P23, press the **[+10]** key twice and then press the **[3]** key.

The selected preset number is displayed.

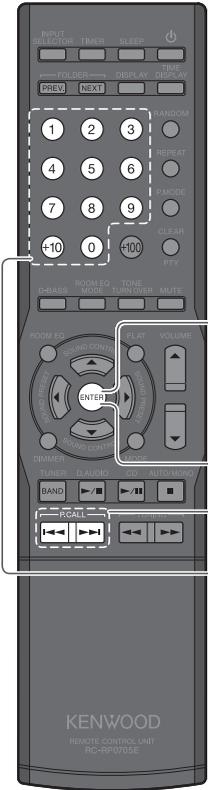MEMORY   P25

FM   TUNED ST. AUTO
100.00 MHz

● If the selected preset number already stores a station, the existing station will be overwritten by the newly selected station.

4 **Press the [ENTER] key.**

COMPLETE

FM   TUNED ST. AUTO
100.00 MHz

● To preset other stations, repeat steps 1 to 4 for each of them.

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.38)

PS (Program Service) Name Display

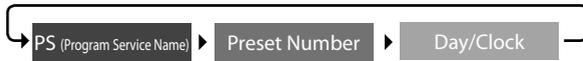**When an RDS broadcast is received, the station name is automatically displayed.**

STATION1

TUNED ST. AUTO RDS
FM   100.00 MHz

- 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

FM 100.00 MHz
TUNED ST. AUTO RDS PTY

● 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 [I◄◄◄] or [►►►I] 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
Pop Music	Pop M
Rock Music	Rock M
Easy Listening Music	Easy M
Light Classical	Light M
Serious Classical	Classics
Other Music	Other M
News	News
Current Affairs	Affairs
Information	Info
Sport	Sport
Education	Educate
Drama	Drama
Culture	Culture
Science	Science
Varied	Varied

Program Type Name	Display
Weather	Weather
Finance	Finance
Children's programs	Children
Social Affairs	Social
Religion	Religion
Phone In	Phone In
Travel	Travel
Leisure	Leisure
Jazz Music	Jazz
Country Music	Country
National Music	Nation M
Oldies Music	Oldies
Folk Music	Folk M
Documentaty	Document

3 Press the [PTY] 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.

External Components

You can play tracks by connecting external components to the system.

Playback from External Components

Connect the external component to the system as described in "Connecting Other Accessories (Commercially Available Units)" (P.12).

● When connecting external components, always turn this system and the external components off beforehand.

● Refer also to the instruction manual for the external component to be connected.
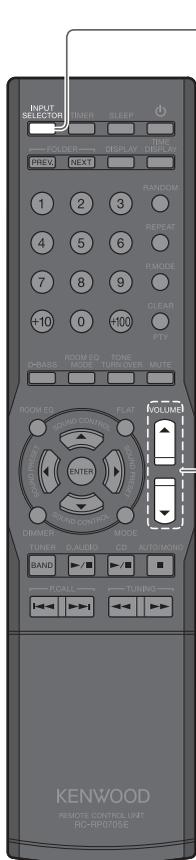
1 Press the [INPUT SELECTOR] key to select the input source to be used for playback.

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

> D-IN ▶ PHONO ▶ TAPE ▶ AUX

`D-IN    48kHz`

● When a digital component is selected, the input signal sampling frequency is displayed.

● The R-K711 will play PCM (32 kHz – 96 kHz) digital signals.

2 Begin playback on the connected external component.

Begin playback using the controls on the connected external component.
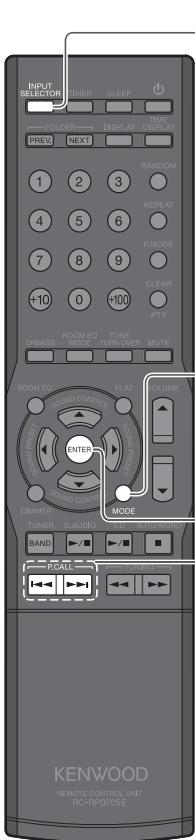
3 Adjust the volume level.

Adjusting the External Component Input Level

Use the procedure below to adjust the input level for the external component connected to the [PHONO IN], [TAPE PLAY IN] or [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 [INPUT SELECTOR] key to adjust the input level.**

You can set the input level for each of PHONO, TAPE and AUX.

2 **Press the [MODE] key.**

3 **Select "INPUT LEVEL".**

Press the **[I◄◄◄]** or **[►►►I]** key.

INPUT LEVEL

▼

Press the **[ENTER]** key.

4 **Set the input level.**

Press the **[I◄◄◄]** or **[►►►I]** key.

INPUT LEVEL
- 3

● You can adjust the input level in a range from −3 to +5.

▼

Press the **[ENTER]** key.

● If you adjust the input level for PHONO or AUX, the output level from the **[TAPE 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.

Playback from a Digital Audio Player

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

● When connecting the digital audio player, always turn this system and the digital audio player off beforehand.

● Refer also to the instruction manual for the digital audio player to be connected.

● Connecting the digital audio player using the dedicated cable allows you to operate the digital audio player using the main unit or the remote control.

Compatible Kenwood digital audio players

HDD audio player	Memory audio player
HD20GA7	M1GC7

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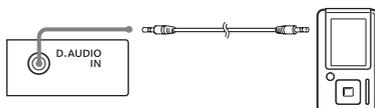
2 **Turn on the digital audio player.**

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, 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.46
● Audio Settings → P.47 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 **[I◄◄]** or **[►►I]** key.

Hold down the **[I◄◄/◄◄]** or **[►►/►►I]** key.

Pausing and resuming playback

Press the **[D.AUDIO►/II]** key.

Press the **[D.AUDIO►/II]** key.

Stopping playback

Press the **[■]** key.

Press the **[■]** key.

Skipping tracks/ skipping back/ skipping to the start

Skip a track

Press the **[►►I]** key.

Press the **[►►/►►I]** key.

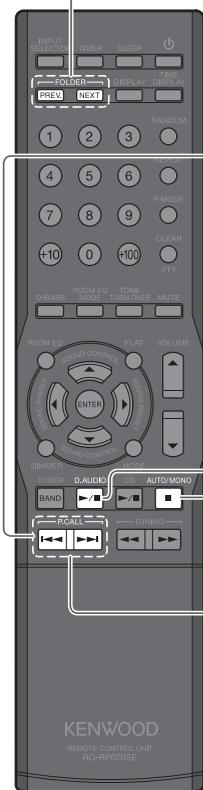**Skip back to the previous track**

Press the **[I◄◄]** key two or more times in succession.

Press the **[I◄◄/◄◄]** key two or more times in succession.

Return to the start of the track

Press the **[I◄◄]** key once.

Press the **[I◄◄/◄◄]** key once.

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.
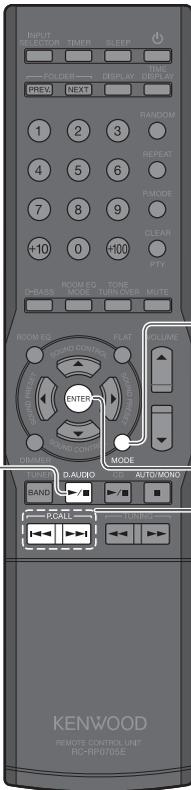
1 **Press the [D.AUDIO ►/❙❙] key.**

2 **Press the [MODE] key.**

3 **Select "INPUT LEVEL".**

Press the **[I◄◄◄]** or **[►►►I]** key.

INPUT LEVEL

▼

Press the **[ENTER]** key.

4 **Set the input level.**

Press the **[I◄◄◄]** or **[►►►I]** key.

INPUT LEVEL
- 3

● You can adjust the input level in a range from –3 to +5.

▼

Press the **[ENTER]** key.

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

Audio Settings

Use the procedures in this chapter to specify the sound quality settings for your stereo system.
These procedures allow you to set up the Room Equalizer function, which will measure the acoustic characteristics of your room and optimize the system's acoustic effects. You can also use the system's digital sound equalizer function to customize the sound to your own preferences.

ROOM EQ (Room Equalizer)

Digital Sound Equalizer

Sound Presets

Supreme EX

BALANCE

ROOM EQ (Room Equalizer)

The system measures the test signal emitted from the speakers using the microphone supplied with the system and automatically sets the optimum acoustic effect for the size of the room and the location in which the stereo is installed. You can also combine this with the D-BASS and TONE/TURN OVER effects.

Automatically Setting the Acoustic Effects for the Room (AUTO ROOM EQ)

The system measures the acoustic characteristics using the microphone supplied with the system and automatically sets the following acoustic effects:

- The sound delay from speakers
- The volume level difference between the left and right speakers
- The speaker frequency characteristics and the acoustic characteristics in the room

The speakers emit a very loud test signal during the measurement. Carefully consider the impact on your neighbors and on children, particularly at night.

Do not place obstacles between the speakers and the microphone.

Measurement

Room EQ

The effect of the Room Equalizer function
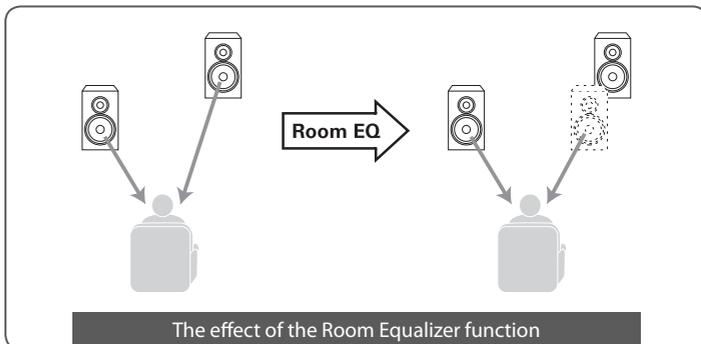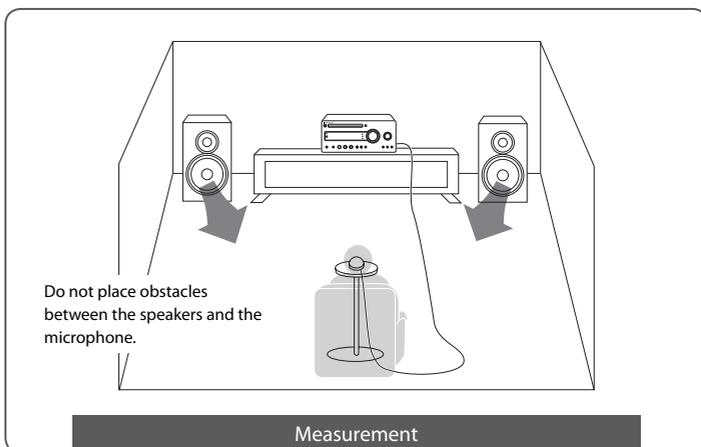
1 **Plug the room equalizer microphone supplied with the system into the [ROOM EQ MIC IN] jack on the rear panel of the main unit.**

See "Main Connections" (P.10) for details.

2 **Place the microphone in the listening position (at ear level).**

Do not place any obstacles between the microphone and speakers during measurement.

3 **Press the [ROOM EQ] key.**

▼

R.EQ START

Press the [MODE] key.

▼

Press the **[I◄◄/◄◄]** or **[►►/►►I]** key to select "ROOM EQ".
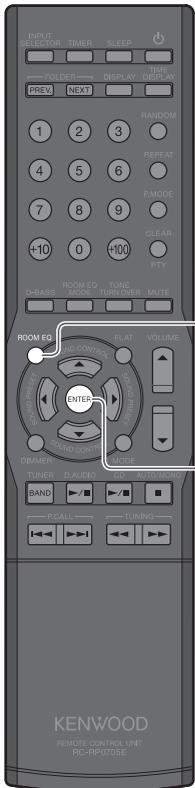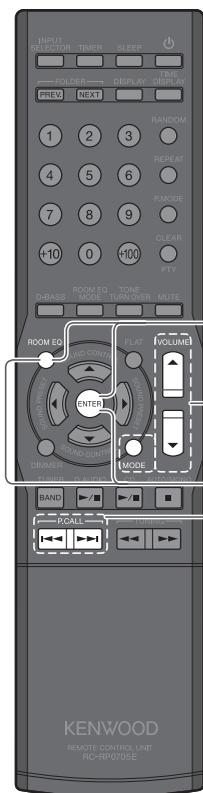
ROOM EQ

▼

Press the **[ENTER]** key.

▼

R.EQ START

4 **Press the [ENTER] key.**

● During setup, "R.EQ SETUP" appears on the display and "RoomEQ" flashes. When setup is completed, "RoomEQ" stops flashing and remains lit.

Canceling automatic setup

If you press the **[ROOM EQ]** or **[MODE]** key during automatic setup, the "R.EQ CANCEL?" message appears.
If you press the **[ENTER]** key, "R.EQ CANCEL" is displayed and setup is canceled.
Pressing the **[VOLUME]** key also cancels automatic setup.

■ **Temporarily canceling the characteristics set automatically**

❶ **Press the [ROOM EQ] key.**
❷ **Press the [I◄◄] or [►►I] key to select "R.EQ OFF".**
❸ **Press the [ENTER] key.**

■ **Restoring canceled characteristics**

❶ **Press the [ROOM EQ] key.**
❷ **Press the [I◄◄] or [►►I] key to select "R.EQ CALL".**
❸ **Press the [ENTER] key.**

● Automatic setup takes about 1 minute to complete.
● If the room equalizer microphone is not connected, or if headphones are connected, the "CAN'T SETUP" message appears and measurement fails.
● Always disconnect the microphone from the main unit once measurement is completed.
● Depending on the conditions in which the system is used, the effects of the Room Equalizer may not be clearly apparent.
● Do not perform other operations during automatic setup.

Matching the Acoustic Effect to the Conditions

Carry out the "AUTO ROOM EQ" (P.48) procedure beforehand. This procedure then allows you to select the sound mode based on the selected sound effect and your listening conditions.
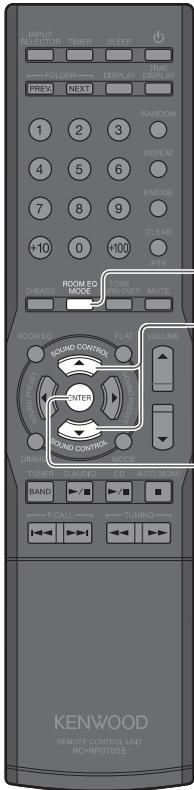
1 📱 **Press the [ROOM EQ MODE] key.**   📻 **Select "ROOM EQ MODE" by pressing the [SOUND SELECTOR] key.**

2 📱 **Press the [SOUND CONTROL] key to select the sound mode.**   📻 **Turn the [SOUND CONTROL] knob to select the sound mode.**

The display changes as shown below.

R.EQ NORMAL
This mode faithfully reproduces the results of the ROOM EQ measurements.

🔽 🔼

R.EQ WIDE
This mode allows you to enjoy music with no discernible loss of quality over a relatively wide area centered around the measurement position.

🔽 🔼

R.EQ NIGHT
This mode enhances the reproduction of highly melodic music when you are listening at low volumes, as with late-night listening.

🔽 🔼

R.EQ LIVE
This mode creates an environment with complex reverberations, similar to a concert hall.

🔽 🔼

R.EQ VOCAL
This mode provides enhanced reproduction of vocals and speech.

● The **[ROOM EQ MODE]** indicator flashes while setting is in progress.

3 Press the [ENTER] key.

● The **[ROOM EQ MODE]** indicator lights when "R.EQ WIDE", "R.EQ NIGHT", "R.EQ LIVE" or "R.EQ VOCAL" is set, and turns off when "NORMAL" is set.

● "ROOM EQ MODE" will not work prior to automatic setup or when "R.EQ OFF" is selected.

Digital Sound Equalizer

This system features a Digital Sound Equalizer function that uses DSP-based digital processing.
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. You can also combine this with the ROOM EQ and TONE/TURN OVER effects.
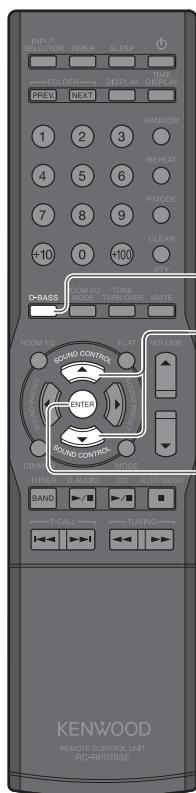
1 📱 **Press the [D-BASS] key.**　　🎛️ **Select "D-BASS" by pressing the [SOUND SELECTOR] key.**

2 📱 **Press the [SOUND CONTROL] key to adjust the level.**　🎛️ **Turn the [SOUND CONTROL] knob to adjust the level.**

```
D-BASS          4
```

● While "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.
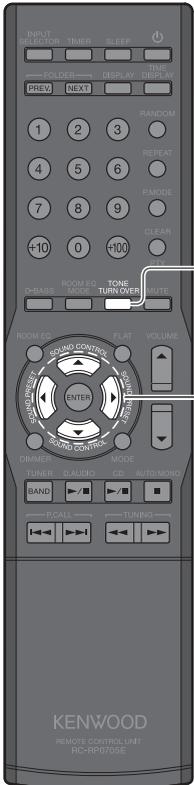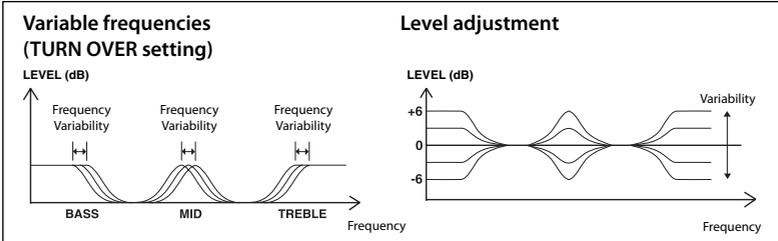
3 **Press the [ENTER] key.**

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

💡 ● Without pressing the **[SOUND SELECTOR]** key, turn the **[SOUND CONTROL]** knob on the main unit to access the D-BASS settings.

Adjusting the Range Levels (TONE/TURN OVER)

You can adjust the low-, mid- and high-range tones to match your preferences (TONE). You can make 3 levels of still finer adjustments to the low-, mid- and high-range tones (TURN OVER). You can also combine this with the ROOM EQ and D-BASS effects.

Variable frequencies (TURN OVER setting)

LEVEL (dB)

Frequency Variability   Frequency Variability   Frequency Variability

BASS   MID   TREBLE   Frequency

Level adjustment

LEVEL (dB)

+6

0

-6

Variability

Frequency

1   📱 **Press the [TONE/TURN OVER] key.**

📻 **Select "BASS" by pressing the [SOUND SELECTOR] key.**

2   📱 **Press the [SOUND PRESET] key to select the frequency of the low tones (BASS) you want to adjust (Low: 100 Hz; Mid: 150 Hz; High: 200 Hz).**

● Only available on the remote control.

3   📱 **Adjust the low tones (BASS) level by pressing the [SOUND CONTROL] key.**

```
BASS        +3
            150 Hz
```

📻 **Adjust the low tones (BASS) level by turning the [SOUND CONTROL] knob.**

● The **[TONE]** indicator flashes while setting is in progress. While the **[TONE]** indicator is flashing, you can adjust the level through a range from –6 to +6.

4 📱 **Press the [TONE/TURN OVER] key.**

📟 **Select "MID" by pressing the [SOUND SELECTOR] key.**

5 📱 **Press the [SOUND PRESET] key to select the frequency of the mid tones (MID) you want to adjust (Low: 1 kHz; Mid: 2 kHz; High: 3 kHz).**

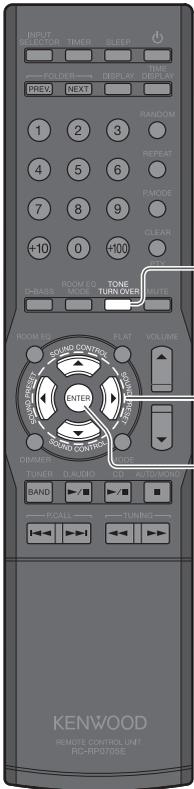● Only available on the remote control.

6 📱 **Adjust the mid tones (MID) level by pressing the [SOUND CONTROL] key.**

📟 **Adjust the mid tones (MID) level by turning the [SOUND CONTROL] knob.**

```
MID        +5
            2  kHz
```

● The **[TONE]** indicator flashes while setting is in progress. While the **[TONE]** indicator is flashing, you can adjust the level through a range from –6 to +6.

7 🎛 **Press the [TONE/ TURN OVER] key.**

📻 **Select "TREBLE" by pressing the [SOUND SELECTOR] key.**

8 🎛 **Press the [SOUND PRESET] key to select the frequency of the high tones (TREBLE) you want to adjust (Low: 5 kHz; Mid: 7 kHz; High: 10 kHz).**

● Only available on the remote control.

9 🎛 **Adjust the high tones (TREBLE) level by pressing the [SOUND CONTROL] key.**

📻 **Adjust the high tones (TREBLE) level by turning the [SOUND CONTROL] knob.**

TREBLE   −6
          10 kHz

● The **[TONE]** indicator flashes while setting is in progress. While the **[TONE]** indicator is flashing, you can adjust the level through a range from −6 to +6.

10 **Press the [ENTER] key.**

● If you set a level other than 0, the **[TONE]** indicator lights.

💡 ● 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.
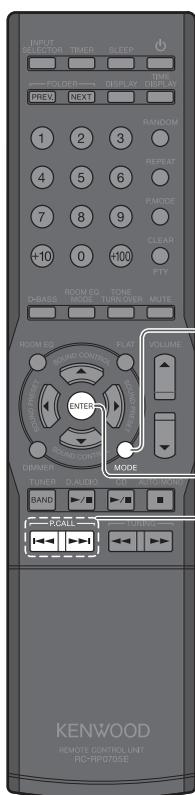
Sound Presets

You can register up to 3 of the sound effects you have set as Sound Presets.
You can then recall and apply the registered Sound Presets simply by pressing the [SOUND PRESET] key.

Registering Sound Effects

Use this procedure to register up to 3 of the sound effects set using AUTO ROOM EQ, ROOM EQ MODE, D-BASS or TONE/TURN OVER.

● First use AUTO ROOM EQ (P.48), ROOM EQ MODE (P.51), D-BASS (P.52) or TONE/TURN OVER (P.53) to set a sound effect.

1 Press the [MODE] key.

2 Select "SOUND PRESET".
Press the **[I◄◄]** or **[►►I]** key.

SOUND PRESET
CD

● "①", "②" or "③" flashes.

Press the **[ENTER]** key.

3 Select a Sound Preset number (1–3).
Press the **[I◄◄]** or **[►►I]** key.

PRESET 1 2 3
CD

● The selected preset number flashes.

Press the **[ENTER]** key.

● The registered Sound Preset number lights and the sound effect currently set is registered.

Using Sound Presets

Use this procedure to recall and apply a registered Sound Preset.

● Register the sound effect you want to use as a Sound Preset beforehand. (P.56)

1 **Select a preset number by pressing the [SOUND PRESET] key.**

```
SOUND PRESET    0
CD
```

● The original display reappears after 3 seconds.
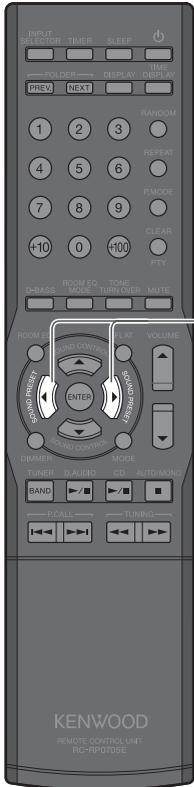
Disabling Equalizer Effects (FLAT)
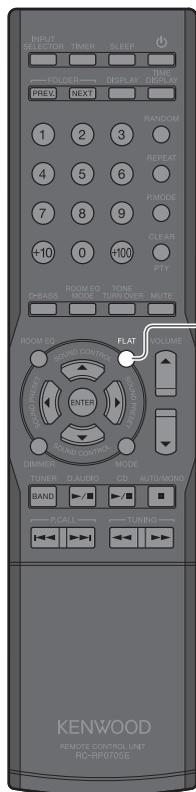
1 **Press the [FLAT] key.**

FLAT
CD

● The "D-BASS" and "TONE/TURN OVER" levels are set to 0 and "NORMAL" is set in "ROOM EQ MODE".

● Press the **[FLAT]** key again to restore the original settings.

Supreme EX

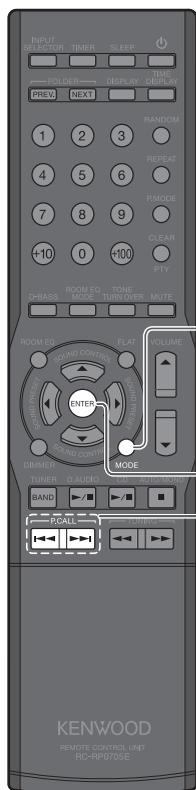Supreme EX is Kenwood's original sound quality enhancement technology and is used for playing CDs and audio files or for playback using components connected to a digital input terminal.

Setting Supreme EX

1 **Press the [MODE] key.**

2 **Select "SUPREME SET".**

Press the **[I◄◄◄]** or **[►►►I]** key.

    SUPREME SET

    ▼

Press the **[ENTER]** key.

● The **[SPRM EX]** indicator flashes while setting is in progress.

3 **Select "ON" or "OFF".**

Press the **[I◄◄◄]** or **[►►►I]** key.

    SUPREME   ON

    SUPREME   OFF

    ▼

Press the **[ENTER]** key.

● The **[SPRM EX]** indicator lights when "SUPREME ON" is set and turns off when "SUPREME OFF" is set.

● The Supreme EX function operates when "D-IN" is selected with a CD or external component.

● Even when "D-IN" is selected, the **[SPRM EX]** indicator does not light if the input signal frequency is 96 kHz or 88.2 kHz.

BALANCE

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

Adjusting the Speaker Volume Balance
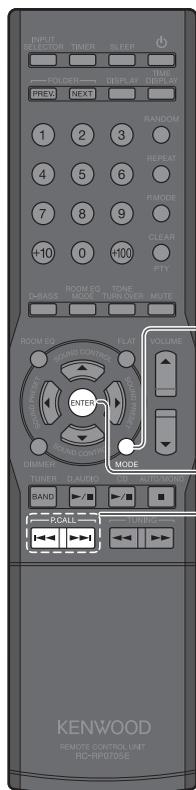
1 **Press the [MODE] key.**

2 **Select "BALANCE".**

Press the **[I◄◄]** or **[►►I]** key.

BALANCE

🔻

Press the **[ENTER]** key.

3 **Adjust the balance.**

Press the **[I◄◄]** or **[►►I]** key.

L－－－－＋▊－－－R

🔻

Press the **[ENTER]** key.

Component Settings

As well as the basic time settings, this chapter explains various functions that make the system easier to use, such as the timer and display settings.

Setting the Timer

Display Settings

Setting the Time

Auto Power Save (A.P.S.)

Setting the Timer

The system features the Sleep Timer, which automatically turns the system off after a set interval, and the Program Timer, which 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 between 10 and 90 minutes in 10-minute increments until the system is turned off.

1 **Press the [SLEEP] key.**

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

10 ▸ **20** ▸ **30** ▸ **40** ▸ **50**

Off ◂ **90** ◂ **80** ◂ **70** ◂ **60**
("🌙" unlit)
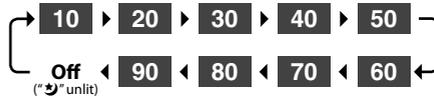
During Sleep Timer setting

`SLEEP        10` ——— Time set
`CD ►`

● 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]** key so that "🌙" is no longer displayed.

Setting the Program Timer (PROGRAM)

This function allows you to use the timer to automatically start playback at a specified time. You can set two timers (PROG. 1 and PROG. 2) at the same time. You can use the timer to activate CD, radio or external component.

● Set the system's clock to the correct time beforehand. (P.69)

● Separate the times for PROG. 1 and PROG. 2 by at least 1 minute to ensure that their operating times do not overlap.
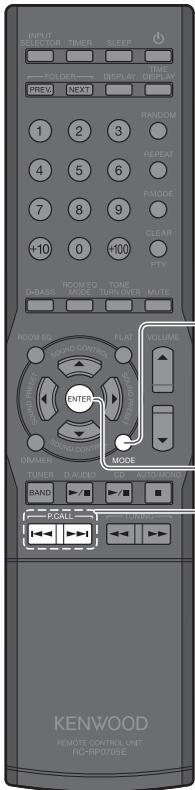
1 Press the [MODE] key.

2 Select "TIMER SET".

Press the **[I◄◄]** or **[►►I]** key.

TIMER SET

▼

Press the **[ENTER]** key.

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

Press the **[I◄◄]** or **[►►I]** key.

PROG.1 SET

▼

Press the **[ENTER]** key.

4 Select "ON" or "OFF".

Press the **[I◄◄]** or **[►►I]** key.

PROG.1 ON

PROG.1 OFF

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

▼
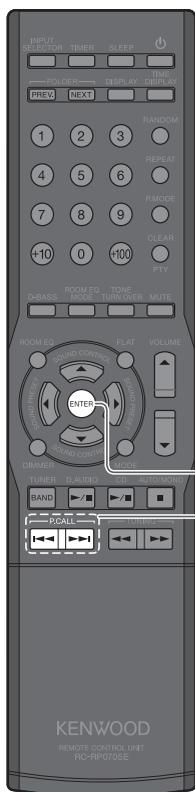
Press the **[ENTER]** key.

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

Press the **[I◀◀]** or **[▶▶I]** key.

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

EVERYDAY ↕ SUNDAY ↕ MONDAY ↕ TUESDAY ↕ WEDNESDAY ↕ THURSDAY

SAT-SUN ↕ TUE-SAT ↕ MON-FRI ↕ SATURDAY ↕ FRIDAY

▼

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 **[I◀◀]** or **[▶▶I]** key.

EVERY WEEK
⊙¹

● The timer runs every week.

ONETIME
⊙¹

● The specified timer runs once only.

▼

Press the **[ENTER]** key.

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

Press the **[I◀◀]** or **[▶▶I]** key.
Set the "hour".

ON TIME
⊙¹   9:00

● The "hour" flashes.

▶ Press the **[ENTER]** key.

▼

Press the **[I◀◀]** or **[▶▶I]** key.
Set the "minute".

ON TIME
⊙¹   9:15

● The "minute" flashes.

▶ Press the **[ENTER]** key.

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

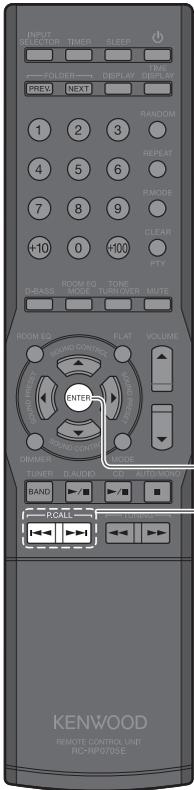Press the **[I◀◀]** or **[▶▶I]** key.
Set the "hour".

OFF TIME
⊙¹   12:00

● The "hour" flashes.

▶ Press the **[ENTER]** key.

▼

Press the **[I◀◀]** or **[▶▶I]** key.
Set the "minute".

OFF TIME
⊙¹   12:30

● The "minute" flashes.

▶ Press the **[ENTER]** key.

9 **Select "PLAY" or "AI PLAY".**

Press the **[I◄◄◄]** or **[►►►I]** key.

```
PLAY
CD►        ⊙¹
```

● Playback is at the volume set in step 10.

```
AI PLAY
CD►        ⊙¹
```

● 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 **[I◄◄◄]** or **[►►►I]** key.

```
VOLUME    30
CD►        ⊙¹
```

▶ Press the **[ENTER]** key.

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

11 **Select the input source.**

Press the **[I◄◄◄]** or **[►►►I]** key.

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

TUNER ⟷ CD ⟷ D-IN

AUX ⟷ TAPE

▼
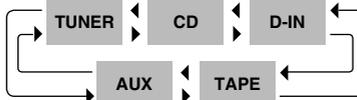
Press the **[ENTER]** key.

● 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 **[I◄◄◄]** or **[►►►I]** 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.

12 **Press the power [⏻] key to turn the power OFF.**

● The **[STANDBY/TIMER]** indicator on the main unit lights orange.

● If the indicator lights red, set the clock to the correct time.

■ **To cancel (off) or reset (on) the timer**

● When the system is turned on, press the **[TIMER]** key.
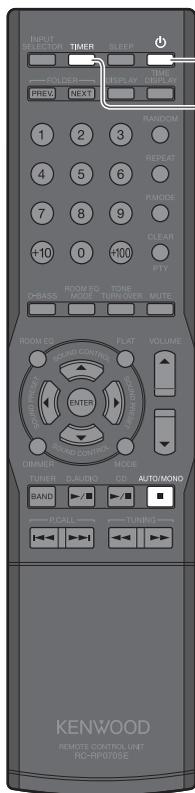
The setting changes each time you press the **[TIMER]** key.

⏱ **1** lit	▶	⏱ **2** lit
PROG. 1 set to on		PROG. 2 set to on

⏱ **1 2** unlit	◀	⏱ **1 2** lit
Timer off		PROG. 1 and 2 set to on
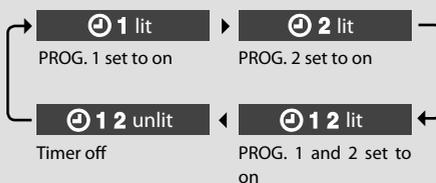
● If there has been a power failure or the system was unplugged from the wall outlet for some time, the **[STANDBY/TIMER]** indicator lights red. In that case, set the time again. (P.69)

● To modify the program settings, redo the timer settings from the beginning.

● When the system is in Standby mode, you can confirm the timer setting (on or off) for 5 seconds by pressing the **[■]** key.

Display Settings

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

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.**

⬚ **Press the [MODE] key.**
▼
Press the **[I◄◄/◄◄]** or **[►►/►►I]** key to select "DIMMER SET".

> **DIMMER SET**

▼
Press the **[ENTER]** key.
▼
Press the **[I◄◄/◄◄]** or **[►►/►►I]** key to select the brightness.

The setting 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 Level Meter ON/OFF
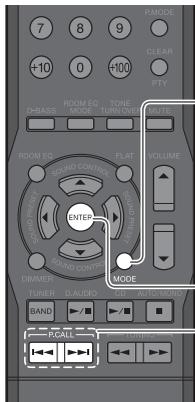
1 **Press the [MODE] key.**

2 **Select "LEVEL METER".**

Press the **[I◄◄]** or **[►►I]** key.

> **LEVEL METER**

● The level meter flashes.

▼
Press the **[ENTER]** key.

Continued to next page ➤
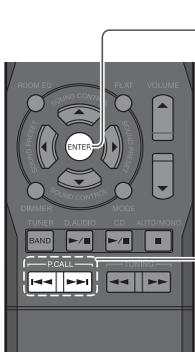
3 **Select "ON" or "OFF".**

Press the **[I◄◄◄]** or **[►►►I]** key.
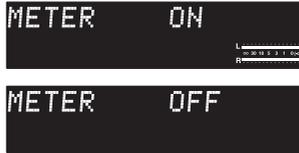
METER   ON

● The level meter lights.

METER   OFF

● The level meter turns off.

▼

Press the **[ENTER]** key.

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 **[I◄◄◄]** or **[►►►I]** key.

DISP. SAVER

▼

Press the **[ENTER]** key.

3 **Select "ON" or "OFF".**

Press the **[I◄◄◄]** or **[►►►I]** key.

D.SAVER   ON
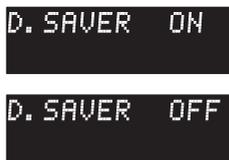
● The display saver is active.

D.SAVER   OFF

● The display saver is disabled.

▼

Press the **[ENTER]** key.

● When you are playing a CD, the display saver is activated if the system is not used at all for 10 minutes after the CD stops playing. 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 Time

Set the system clock to the correct time. If you use the Program Timer for playback when the time is not set correctly, you will not be able to run the program at the correct time.
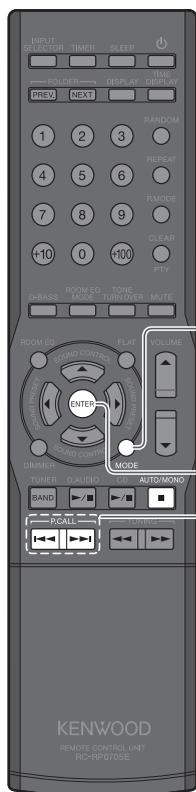
1 **Press the [MODE] key.**

2 **Select "TIME ADJUST".**

Press the **[I◄◄◄]** or **[►►►I]** key.

TIME ADJUST

▶ Press the **[ENTER]** key.

3 **Set the day of the week.**

Press the **[I◄◄◄]** or **[►►►I]** key.

SUNDAY
12:00

▶ Press the **[ENTER]** key.

4 **Set the time.**

Press the **[I◄◄◄]** or **[►►►I]** key.
Set the "hour".

SUNDAY
8:00

▶ Press the **[ENTER]** key.

Press the **[I◄◄◄]** or **[►►►I]** key.
Set the "minute".

SUNDAY
8:07
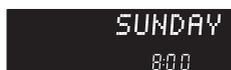
▶ Press the **[ENTER]** key.

● The set day and time are displayed.

● If you make a mistake, redo 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 while the system is in the Standby mode will display the time for 5 seconds.

Auto Power Save (A.P.S.)

Auto Power Save (A.P.S.) is a function that automatically turns the system off if it is not used at all for 30 minutes after a CD stops playing.
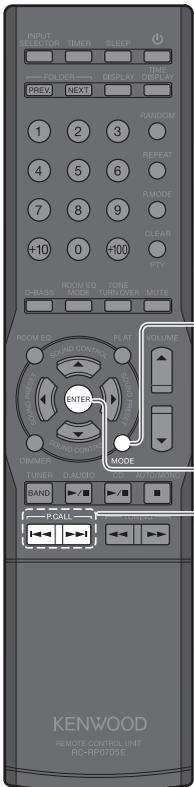
1 **Press the [MODE] key.**

2 **Select "A.P.S. SET".**
Press the **[I◄◄◄]** or **[►►►I]** key.

A.P.S. SET
A.P.S.

● "A.P.S." flashes on the display.

▼

Press the **[ENTER]** key.

3 **Select "ON" or "OFF".**
Press the **[I◄◄◄]** or **[►►►I]** key.

A.P.S.   ON
A.P.S.

● "A.P.S." lights up on the display.

A.P.S.   OFF

● "A.P.S." turns off.

▼

Press the **[ENTER]** key.

● If the input source is other than CD, Auto Power Save operates when the volume is set to zero (VOLUME 0) or MUTE is set to on.

● When recording on external components, turn A.P.S. off or adjust volume to above zero.

Maintenance

This chapter explains how to deal with error messages displayed on the system or problems that may arise. It also describes how to store and maintain your system so that it continues to give pleasure for many years to come.

Messages

Displayed Message	Meaning
CAN'T PLAY	You are attempting to play an audio file that cannot be played on this system. →The system automatically skips to the next audio file.
CAN'T SETUP	● The ROOM EQ microphone is not connected. →Connect the ROOM EQ microphone. ● Headphones are plugged into the [PHONES] jack. →Unplug the headphones.
CD NO DISC	There is no CD loaded. →Load a CD.
CD NO PGM	No tracks are programmed. →Program the tracks you want to listen to. (P.32) →Cancel program mode and use normal playback. (P.33)
CD NO TEXT	There is no text information on a CD-TEXT disc.
CD PGM FULL	An attempt was made to program a 33rd CD track. →You can only program up to 32 tracks. (P.33)
CHECK DISC	● The TOC[*1] information cannot be read. →The disc is dirty. Clean the disc. (See "Care and Storage" on P.77.) ● The disc is not loaded correctly. →Set the disc in the tray correctly. (P.26) ● The disc contains no playable audio files.
Non-PCM	The [DIGITAL IN (OPTICAL)] terminal on the rear panel of the main unit is receiving non-PCM input signals. (P.13)
PROTECTED	An attempt was made to play an audio file with the copyright protection function enabled. →The system automatically skips to the next audio file.
R.EQ ERROR1	Measurement failed because the room being measured is too noisy. →Reduce the amount of ambient noise.
R.EQ ERROR2	Measurement failed because there is no signal input to the microphone.
TRAY OPEN	The CD 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.
––– kHz	The sampling frequency of the input PCM signals is outside the playable range.
. . . .	There is no TAG information. (P.29)

*1:   In addition to audio signals, information called the Table of Contents (TOC) is recorded on each CD. The TOC is similar to the Contents page of a book and information such as the text, playing times and number of tracks includes some items that cannot be rewritten.

Troubleshooting

Apparent faults or malfunctions may be easily resolved. Before calling for service, check the table below for symptoms that match yours.

Amplifier/Speakers

Symptoms	Solution	Ref. page
There is no sound.	● Check that the system is connected properly, as described in "Connecting the System". ● Increase the volume. ● Cancel the MUTE setting. ● If there are headphones plugged into the main unit, unplug them.	10 - 13 20 20 13
The [STANDBY/TIMER] indicator is flashing red and there is no sound.	● 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.	—
There is no sound from the headphones.	● Check that the headphone plug is inserted correctly. ● Increase the volume. ● Cancel the MUTE setting.	13 20 20
There is no sound from "D-IN".	● Check that the system is connected properly, as described in "Connecting the System". ● Check whether "PCM" is selected as the digital audio output setting on the connected component.	13
There is no sound from one of the speakers.	● Check that the system is connected properly, as described in "Connecting the System". ● Adjust the balance.	10 60
There is a booming sound when I select PHONO as the input source.	● Insert the audio cord plugs securely into the [PHONO IN] jacks. ● Connect the signal earth wire to the [⏚] terminal.	12 12
The clock display is flashing.	● Set the time as described in "Setting the Time".	69
The timer does not work.	● Set the time as described in "Setting the Time". ● Set a start time and end time for the program timer.	69 63

Tuner

Symptoms	Solution	Ref. page
I can't get reception from a radio station.	● Connect the antennas. ● Select the broadcast band (AM or FM). ● Tune the radio to the frequency of the desired station.	10 36 36
There is interference (noise).	● Install an outdoor antenna away from the road. ● 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.	● Run Auto Memory again. ● Manually preset stations with frequencies that you can receive.	38 39

CD

Symptoms	Solution	Ref. page
I insert a CD but it won't play.	● 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 against condensation".)	26 77 77
There is no sound.	● Press the [CD▶/❚❚] key. ● Clean the disc. (See "Care and Storage".)	26 77
Playback skips.	● Clean the disc. (See "Care and Storage".)	77
I can't play some audio files.	● The system will not play audio files that are corrupted. ● Check that the system can play the audio file.	 23
There is a delay until playback starts.	● There may be a delay prior to playback if there are large numbers of folders.	30
The TAG information is not displayed correctly.	● Refer to "Supported Audio Files" to check which TAG information can be displayed on this system.	23

Components connected to the D.AUDIO IN terminal

Symptoms	Solution	Ref. page
I can't use the remote control or main unit to control my Kenwood digital audio player.	● Connect the player using the dedicated cable. ● Check whether the connected model is compatible.	12 44

Remote control

Symptoms	Solution	Ref. page
The remote control does not work.	● Insert new batteries. ● Use the remote control from within its effective range.	17 17

Resetting the microcomputer

Symptoms	Solution

Microcomputer malfunction (the system does not work, the display is faulty, etc.).	● **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.**
	
	❶ **Unplug the power cord from the AC wall outlet.**
	
	❷ **Plug the power cord back in while holding down the power [⏻] key on the main unit.**
	
	❸ **When the microcomputer is reset, the display shown on the right appears.**
	  ● If you reset the microcomputer with a disc loaded, the disc is automatically ejected. In that case, remove the disc and close the CD tray.
	  ● Bear in mind that resetting erases any stored information and restores the system's default settings.
	
	`INITIALIZE`

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.	23
Bit rate	A number indicating the amount of information processed per second. The higher the bit rate, the better the sound quality.	23
CD-DA	Refers to music CDs. Almost all discs normally referred to as "CDs" are actually CD-DA discs.	22
CD-TEXT	A generic name for music CDs that contain text information such as the disc name, artist names and track names.	29
MP3	An audio compression method developed by Germany's Fraunhofer IIS that achieves high rates of data compression by discarding data that is not readily audible by humans. MP3 can compress data down to rates of approximately 1/11 (128 kbps) while retaining sound quality equivalent to a music CD.	23
Sampling frequency	A number that indicates the number of times per second that 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.	23
WMA	An abbreviation for the "Windows Media™ Audio" audio compression and encoding system developed by Microsoft Corporation of the U.S.	23

Care and Storage

Care and storage of main unit

■ Do not place in the following locations

- Place exposed to direct sunlight.
- Place subjected to excessive humidity or dirt.
- Place exposed to direct heat from heating equipment.

■ Be careful against condensation

When the difference in temperatures between the main unit and the environmental air is large, dew may be condensed inside the main unit and may cause malfunction of the main unit. If this happens, leave the main unit for a few hours until its internal mechanisms are dried up.
Take special care against condensation when the main unit is moved between places with a large temperature difference or into a room with high humidity.

■ When a main unit becomes dirty

When the front panel or case gets dirty, wipe with a soft dry cloth. Do not use lacquer thinner, benzine, alcohol or contact revitalizer for these chemicals will cause discoloration or deformation.

Care and storage of CD

■ Before storing the CD

When the main unit is not to be used for a long period, take out the CD and store in the case.

■ When a CD becomes dirty

- When a disc is contaminated with fingerprints or other stains, wipe gently in the radial direction using a soft dry cloth.
- Do not use an analog disk cleaner, lacquer thinner, benzine or alcohol.
- Do not use a disc accessory (stabilizer, protective sheet, protective ring, etc.) or lens cleaner.

■ Other cautions

- Do not write letters on a CD using a pencil or ballpoint pen.
- Do not use a CD if the sticker or label on it is peeled off or bond is overflowed around the sticker or label.
- Do not stick a sheet of paper, sticker or label on a CD.

Specifications

Main unit

[Amplifier]

Effective output power during STEREO operation
.....................................30 W + 30 W RMS (1 kHz, 10 % T.H.D., 6 Ω)
Total harmonic distortion.........................0.005% (1 kHz, 15 W, 6 Ω)
Tone control characteristics
BASS
(TURN OVER 100 Hz) .... ±3.0 dB (at 100 Hz)
(TURN OVER 150 Hz) .... ±5.0 dB (at 100 Hz)
(TURN OVER 200 Hz) .... ±5.6 dB (at 100 Hz)
MID
(TURN OVER 1 kHz)...±6.0 dB (at 1 kHz)
(TURN OVER 2 kHz)...±6.0 dB (at 2 kHz)
(TURN OVER 3 kHz)...±6.0 dB (at 3 kHz)
TREBLE
(TURN OVER 5 kHz)...±5.6 dB (at 10 kHz)
(TURN OVER 7 kHz) ....±4.9 dB (at 10 kHz)
(TURN OVER 10 kHz) ....±3.0 dB (at 10 kHz)
D-Bass (+10) .... +13.5 dB (40 Hz, Vol. 60)
Input terminals (Sensitivity/Impedance)
PHONO (MM) .... 9 mV / 31 kΩ
LINE (AUX, TAPE) .... 450 mV / 22 kΩ
LINE (D.AUDIO)... 250 mV / 11 kΩ
Output terminals (Level/Impedance)
TAPE .... 450 mV / 200 Ω
SUB WOOFER PRE OUT... 2 V / 620 Ω

[Digital unit]

Sampling frequencies
.... 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
Supreme EX (CD, D-IN)
Playable frequencies... 1 Hz – 44 kHz
Digital input terminals (Sensitivity/Wave length)
Optical............................... −15 dBm – −24 dBm, 660 nm ±30 nm

[Tuner]

FM tuner
Reception frequency range...................87.5 MHz to 108.0 MHz
AM tuner
Reception frequency range...................... 531 kHz to 1,602 kHz

[CD player]

Scanning method...Semiconductor laser
D/A Conversion ....1 bit
Oversampling .... 128 fs (11289.6 kHz)
Frequency response .... 20 Hz to 20 kHz
Signal to noise ratio (TAPE REC OUT) .... More than 104 dB

[Power Supply, etc.]

Power consumption .... 70 W
Power consumption (Standby).. 0.3 W or less
Dimensions
Width ....270 mm (10-5/8")
Height.. 126 mm (4-15/16")
Depth...369 mm (14-1/2")
Weight (net)... 5.6 kg (12.35 lb)

- Design and specifications are subject to change without notice.
- Full performance is not guaranteed in extremely cold environments (under water-freezing temperatures).

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 _____