

# KENWOOD

COMPACT HI-FI COMPONENT SYSTEM

# R-K1

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## INSTRUCTION MANUAL

Kenwood Corporation



© B60-5669-00/00 (E, X) AP

ENGLISH

FRANÇAIS

DEUTSCH

NEDERLANDS

ITALIANO

ESPAÑOL

# 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

## 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 by products.

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.

## 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



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.

**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.

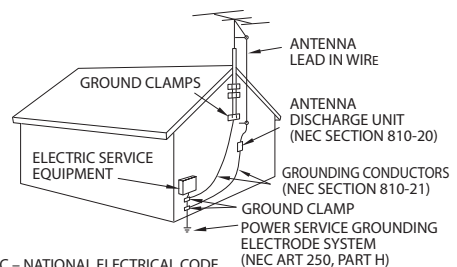
**16. Wall or Ceiling Mounting** – This product should be mounted to a wall or ceiling only as recommended by the manufacturer.

**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



Notes:

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

# How to use this manual

This manual consists of four parts including Preparations, Basics, Applications and Knowledge.

### Preparations

This part describes the methods of connections to other audio components and the names of parts of the system. Connections are sometimes complicated with certain audio components. Please read this part carefully before proceeding to the connections.

### Basics

This part gives the operating procedures of basic functions including playback of music.

### Applications

This part gives the operating procedures of applied functions (functions for convenience) including program playback of music.

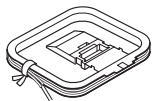
### Knowledge

This part gives useful information such as "Troubleshooting" and "Specifications".

## Accessories

Check that all accessories are present in the package.

AM loop antenna  
(x 1)



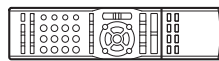
FM indoor antenna  
(x 1)



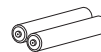
Power cord  
(x 1)



Remote control unit  
(RC-RP0704E x 1)



Remote control batteries  
(R03 x 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.

## Features of the System

### New-generation audio system for impressive CD music entertainment

#### ■ "Supreme EX" for beautiful reproduction of music signal data in CD

Highly accurate interpolation of music signals up to 20 kHz into a wide range of signals up to 40 kHz. Left/right independent D/A converters for reproduction of even the delicate atmosphere of concert halls.

#### ■ Advanced technology for faithful amplification of music signals by thoroughly eliminating noise

##### Separate circuit design for preventing degradation of music signals:

The mechanical block, digital block and analog block are separated to minimize the effects on the sound quality due to mutual relations between these blocks. In addition, the analog signal paths employ independent differentiated circuit configurations for the left and right channels to prevent crosstalk.

##### Three-transformer configuration for stable power supply:

Independent power transformers are provided for the "amplifier circuitry", "CD mechanism/digital converter circuitry" and "control circuitry". A toroidal power transformer featuring stable power supply is used with the amplifier circuitry that requires highest power. The final stage of the amplifier circuitry uses the TRAIT, which features an excellent temperature-tracking characteristic and enriches the volume of low frequencies and free expansion of high frequencies.



##### CD-dedicated direct circuitry:

The CD-dedicated direct circuitry transmits the music signals from the CD to the amplifier through the shortest distance by bypassing the selector and tone circuits.

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

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# Connections

## ⚠ 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: 50cm or more  
Side panel: 10cm or more  
Back panel: 10cm 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.

## Caution for connection

Do not plug the power cord into the power outlet until all other connections are completed. Before unplugging a connected cord or cable, be sure to set the power key to OFF and unplug the power cord from the power outlet in advance.

## Malfunction of microcomputer

If the system does not work properly or the display shows wrong information even when correct connections are made, reset the microcomputer referring to "Resetting the Microcomputer". (See page 38.)

## Connecting the antennas

AM/FM radio stations cannot be received without the proper antenna connections. Connect the antennas properly according to the following instructions.

### AM loop antenna

The provided AM antenna is an indoor antenna. Install it as apart as possible from the main unit, TV set, speaker cords and power cord and orient it in the direction that offers best reception condition.

#### How to connect the AM loop antenna cord

- 1 Push the lever
- 2 Insert the cord
- 3 Return the lever

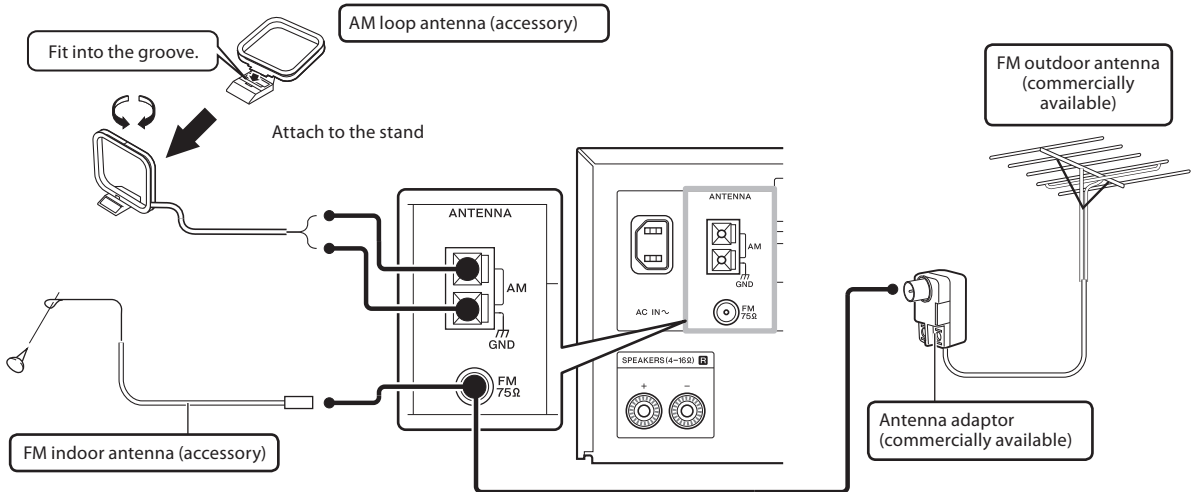


### FM outdoor antenna (commercially available)

To receive FM broadcasting more clearly, it is recommended to use an FM outdoor antenna. Use a 75-Ω coaxial cable, lead it indoors and connect to the [FM 75 Ω] terminal. Remove the FM indoor antenna after connecting the outdoor antenna.

#### ⚠ Caution for FM 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.



### FM indoor antenna

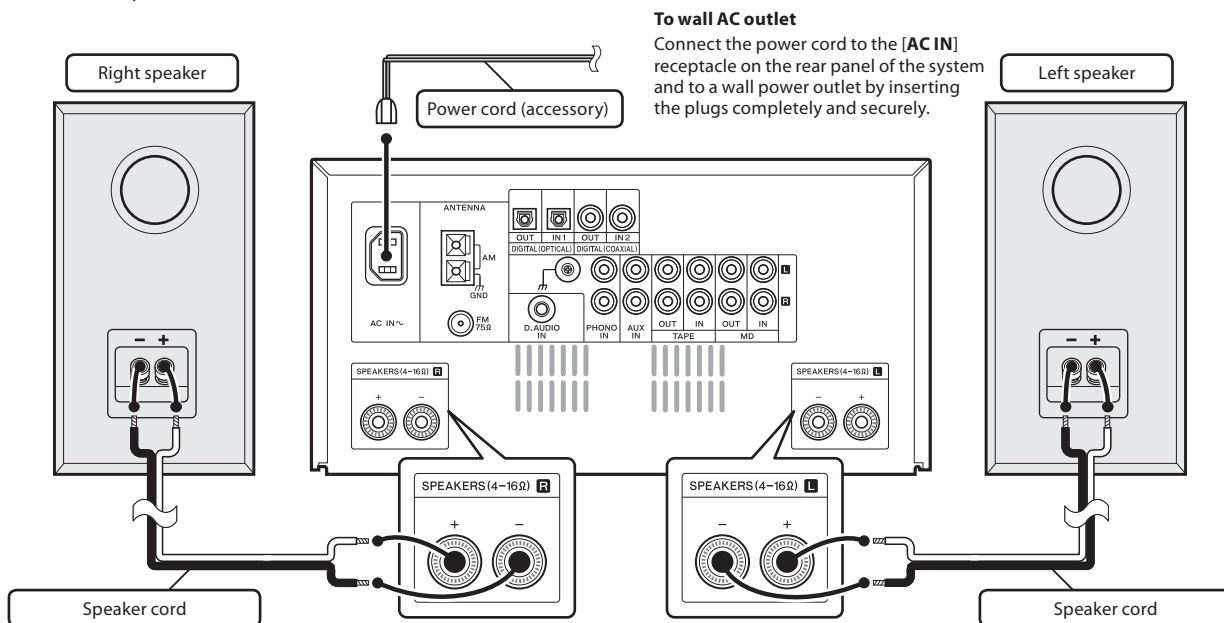
The provided FM antenna is a simplified one for indoor use, intended for temporary use. To receive FM stations stably, it is recommended to use an outdoor antenna (commercially available). Remove the FM indoor antenna after connecting the outdoor antenna.

#### How to connect the FM indoor antenna cord

- 1 Connect the antenna to the antenna terminal
- 2 Find the antenna location that offers best reception
- 3 Fix the antenna in the found location

# Connecting the speakers

Connect the speakers as shown below.



## How to connect each speaker cord

### 1 Strip coating



### 2 Loosen



### 3 Insert



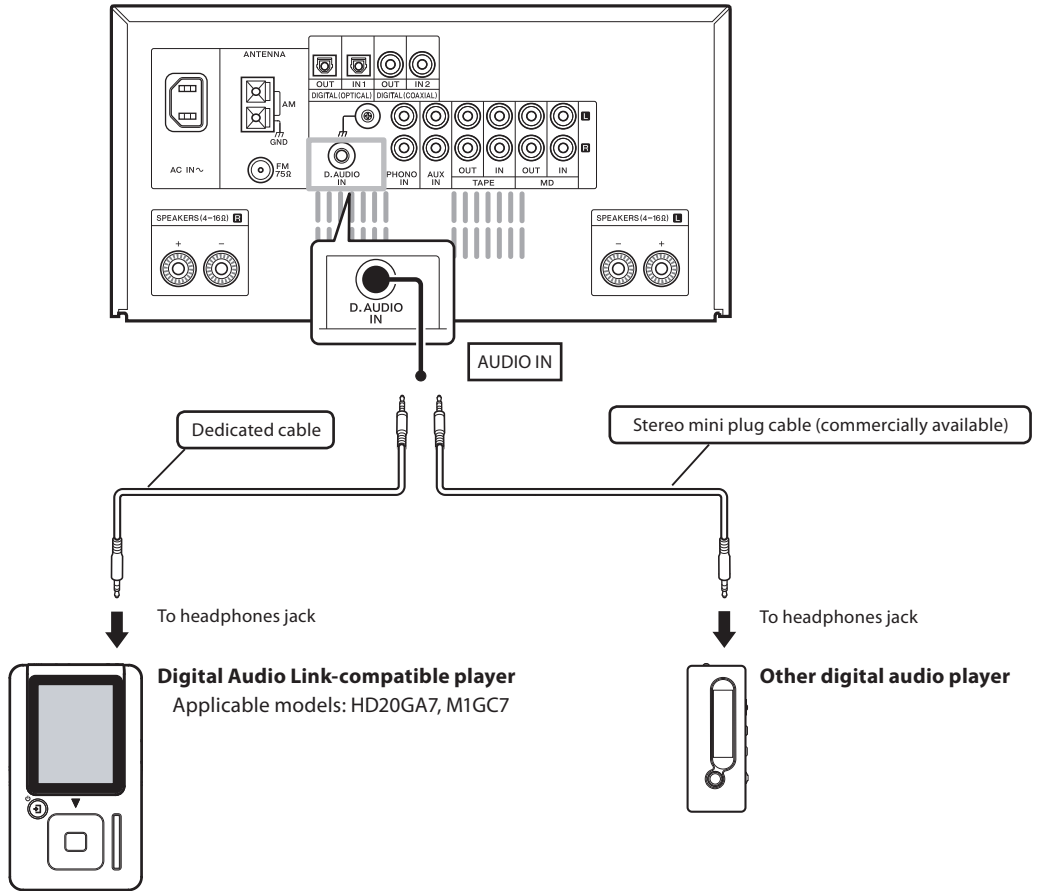
### 4 Secure



- Be careful not to short-circuit the + and – conductors of the speaker cord.
- If the speaker cord is connected by inverting the + and – polarity, the reproduced audio will be unnatural with unclear positioning of musical instruments.
- Connect every connection cord firmly. Incomplete insertion may cause loss of audio output or generation of noise.
- The magnetism from the speakers may cause color irregularities on a nearby TV or PC screen. Always install the speakers at a distance from a TV or PC.

# Connecting the digital audio player

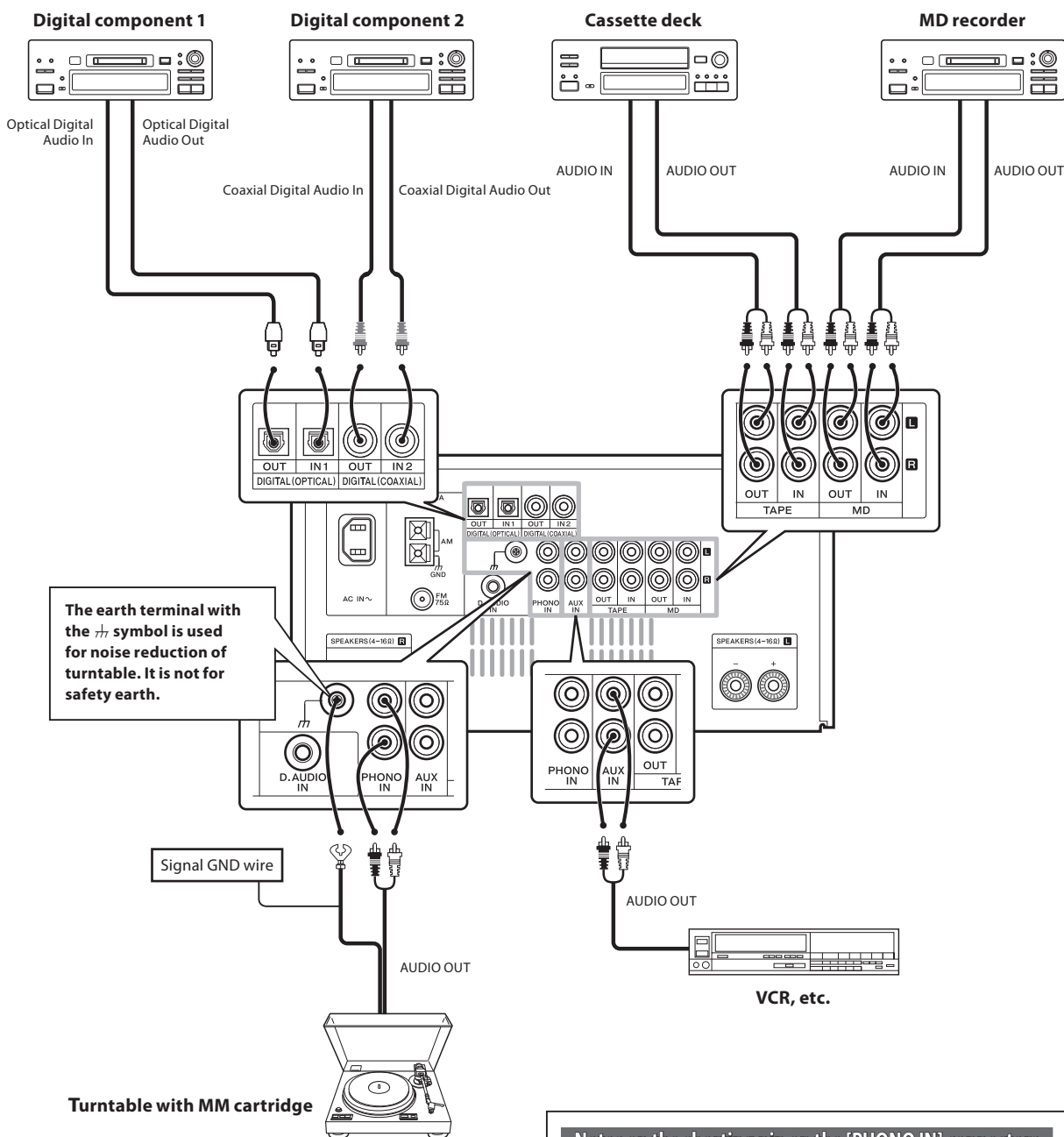
ENGLISH



- Before connecting associated system products, be sure to read their instruction manuals.
- Connect every connection cord firmly. Incomplete insertion may cause loss of audio output or generation of noise.
- After using the digital audio player, be sure to disconnect the connection cord from the **[D.AUDIO IN]** connector on the rear panel of this system.



# Connecting Associated Products (Commercially Available)



ENGLISH

The earth terminal with the symbol is used for noise reduction of turntable. It is not for safety earth.

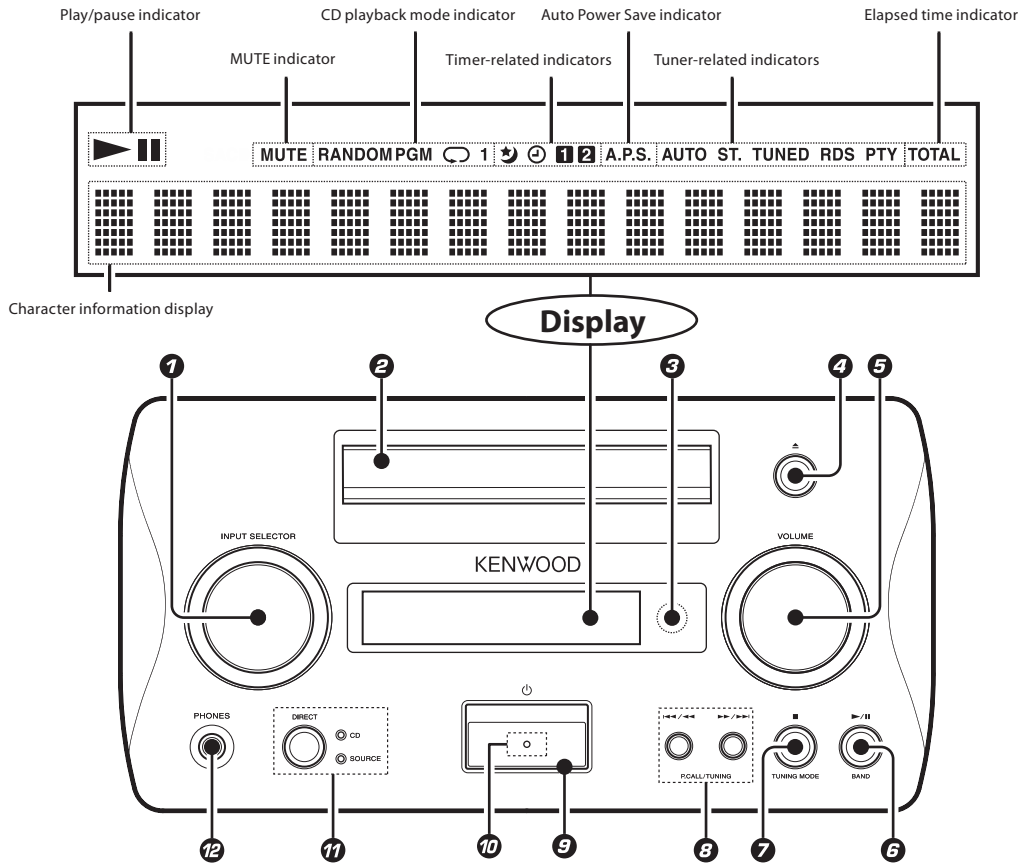
- For turntable with equalizer amplifier, connect it to the [AUX IN] terminal.
- Moving coil (MC) cartridge turntable cannot be used directly from the unit. Use a dedicated equalizer amplifier and connect this to the [AUX IN] connectors.

- Notes on the shorting pin on the [PHONO IN] connectors**
- The system comes with a shorting pin inserted into the [PHONO IN] connectors. If you want to connect an analog disk turntable, remove the shorting pin and store it carefully so as not to lose it.
  - Do not connect the removed shorting pin to output connectors.

- Before connecting associated system products, be sure to read their instruction manuals.
- Connect every connection cord firmly. Incomplete insertion may cause loss of audio output or generation of noise.
- If the speaker cord is connected by inverting the + and - polarity, the reproduced audio will be unnatural with unclear positioning of musical instruments.

# Controls, Connectors and Indicators

## Main unit



- 1 INPUT SELECTOR knob (See page 14.)**  
Turn the knob to select an input.
- 2 CD tray (See page 17.)**
- 3 Remote control sensor (See page 12.)**
- 4 CD tray open/close (▲) key (See page 17.)**  
Press to open or close the CD tray.
- 5 VOLUME knob (See page 14.)**  
Turn the knob to adjust the volume.
- 6 ▶/||/BAND key (See pages 18, 20 and 23.)**
  - When the [TUNER] input is selected: Press to switch the receiving radio band (FM/AM).
  - When the [CD] or [D.AUDIO] input is selected: Press to switch the play and pause modes.
- 7 ■/TUNING MODE key (See pages 18, 21 and 23.)**
  - When the [TUNER] input is selected: Press to switch between auto tuning (auto/stereo reception) and mono tuning (manual/monaural reception).
  - When the [CD] or [D.AUDIO] input is selected: Press to stop playback.
  - In standby mode: Press to display the time of the day or day of the week.
- 8 ◀◀/▶▶, P.CALL/TUNING keys (See pages 18, 19, 21 and 23.)**
  - When the [TUNER] input is selected: Press to recall a preset radio station (Preset Call) or selecting a radio station.

→ When the [CD] or [D.AUDIO] input is selected: Press to skip or search (by fast forward or fast reverse) a track. (Pressing and holding a key for more than 1 second starts search in the direction corresponding to the key. Pressing a key shortly starts skip in the direction corresponding to the pressed key.)

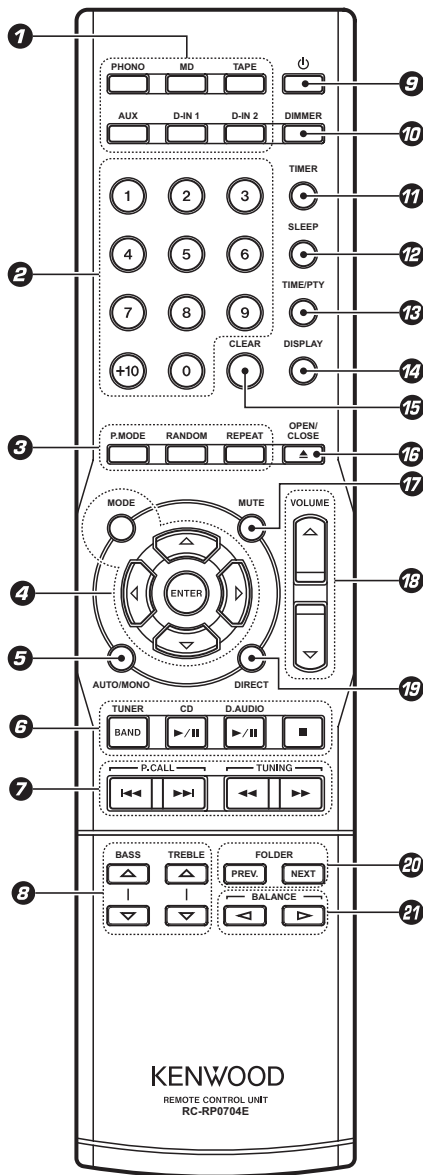
- 9 Power key (See page 14.)**  
Press to switch the power mode of the system between ON and standby.
- 10 Standby indicator (See page 14.)**  
**Red lighting:** Ordinary standby mode.  
**Orange lighting:** Timer standby mode.  
If the indicator is blinking, see "Troubleshooting". (See page 38.)
- 11 DIRECT key/CD and SOURCE indicators (See page 16.)**  
Press the key to switch the CD/SOURCE DIRECT functions ON and OFF.
- 12 PHONES jack (See page 15.)**  
Connect headphones when using them.

### Standby mode

When the standby indicator is lit, a small amount of power is supplied to the system to back up the memory. This status is referred to as the standby mode. During this mode, the system can be switched ON from the remote control unit.

# Remote control unit

The remote control keys with the same names as the keys on the main system function in the same way as the keys on the main system. The keys marked \* are available only on the remote control unit.



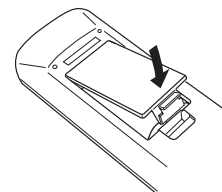
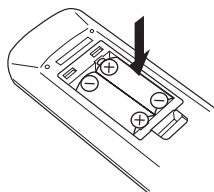
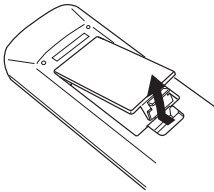
- 1 PHONO, MD, TAPE, AUX, D-IN 1 and D-IN 2 keys\*** (See page 14.)  
Press one of these keys to select the desired external input source.
- 2 Numeric keys\*** (See pages 18, 25 and 28.)  
 → When the [TUNER] input is selected: Press the keys for Preset Call (recalling a preset radio station).  
 → When the [CD] input is selected: Press to select a track number or program number.
- 3 P.MODE key\*** (See page 28.)  
Press to switch between the track mode (normal playback) and program playback (playback by reordering tracks).  
**RANDOM key\*** (See page 31.)  
Press for random playback (playback in a random order) of CD.  
**REPEAT key\*** (See page 30.)  
Press for repeat playback (repeating a track(s)) of CD.
- 4 Setup mode-related keys** (See pages 13, 22, 24, 32, 33 and 36.)  
**MODE key\***  
Press for various setups including auto presetting of radio stations and timer setting.  
**Multi-control (Δ, ∇, <, >) keys\***  
Press to select a setup item.  
**ENTER key\***  
Press to enter a setup.
- 5 AUTO/MONO key** (See page 23.)  
 → When the [TUNER] input is selected: Press to switch between auto tuning (auto/stereo reception) and mono tuning (manual/monaural reception).
- 6 TUNER/BAND key** (See page 23.)  
Press to select the [TUNER] input.  
 → When the [TUNER] input is selected: Press to switch the receiving radio band (FM/AM).  
**CD ▶/|| key** (See page 18.)  
Press to select the [CD] input.  
 → When the [CD] input is selected: Press to switch the play and pause modes.  
**D.AUDIO ▶/|| key** (See page 20.)  
Press to select the [D.AUDIO] input.  
 → When the [D.AUDIO] input is selected: Press to switch the play and pause modes.  
**■ key** (See pages 18 and 21.)  
 → When the [CD] or [D.AUDIO] input is selected: Press to stop playback.  
 → In standby mode: Press to display the time of the day or day of the week.
- 7 P.CALL/|◀◀, ▶▶| keys** (See pages 18, 21 and 25.)  
 → When the [TUNER] input is selected: Press for Preset Recall (recalling a preset radio station).  
 → When the [CD] input is selected: Press to skip a track.  
 → When the [D.AUDIO] input is selected: Press to skip or search (by fast forward or fast reverse) a track.  
**TUNING/◀◀, ▶▶ keys** (See pages 19 and 23.)  
 → When the [TUNER] input is selected: Press to select a frequency.  
 → When the [CD] input is selected: Press to search a track (by fast forward or fast reverse).
- 8 BASS Δ, ∇ keys\*** (See page 15.)  
Press to adjust the bass (low-frequency) level.  
**TREBLE Δ, ∇ keys\*** (See page 15.)  
Press to adjust the treble (high-frequency) level.
- 9 Power key** (See page 14.)  
Press to switch the power mode of the system between ON and standby.

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- 10 DIMMER key\*** (See page 16.)  
Press to switch the display brightness.
- 11 TIMER key\*** (See page 36.)  
Press to select the mode of executing the program timer.
- 12 SLEEP key\*** (See page 36.)  
Press to set the sleep timer.
- 13 TIME key\*** (See page 19.)  
Press to switch the time information display of CD.  
**PTY key\*** (See page 26.)  
Press to enter PTY mode.
- 14 DISPLAY key\*** (See pages 19, 21, 27 and 32.)  
Press to switch the displayed information.
- 15 CLEAR key\*** (See page 29.)  
Press to clear a program number.
- 16 OPEN/CLOSE  $\blacktriangle$  key** (See page 17.)  
Press to open or close the CD tray.
- 17 MUTE key\*** (See page 16.)  
Press to mute the audio temporarily.
- 18 VOLUME ( $\triangle$ ,  $\nabla$ ) keys\*** (See page 14.)  
Press to adjust the volume.
- 19 DIRECT key** (See page 16.)  
Press the key to switch the CD/SOURCE DIRECT functions ON and OFF.
- 20 FOLDER PREV., NEXT keys\*** (See page 21.)  
→ When the [D.AUDIO] input is selected: Press to select a folder of a Kenwood digital audio player.
- 21 BALANCE  $\triangleleft$ ,  $\triangleright$  keys\*** (See page 16.)  
Press to adjust the speaker balance.

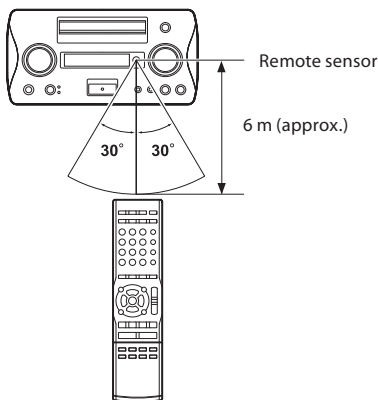
## Loading batteries in the remote control unit

- 1 Remove the battery cover**
- 2 Insert batteries**
- 3 Close the battery cover**



- Insert two R03 batteries following the polarity indications.

## Operation

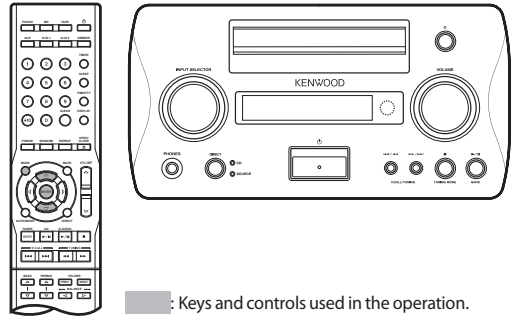


Plug the power cord of the system to a power outlet and press the power key on the remote control unit to turn the system ON. After the system is switched ON, press the desired operation key.

- When pressing more than one remote control keys in sequence, leave a period of about 1 second or more between each press.
- The provided batteries are intended for use in checking operations and their life may be shorter than usual.
- When the remote controllable distance becomes short, replace both of the batteries with new ones.
- The system may malfunction if the remote control sensor is exposed to direct sunlight or the light of a fluorescent lamp with high-frequency lighting system (inverter system, etc.). In this case, change the system installation to prevent malfunction.

# Time Adjustment

The system incorporates a clock function. As it is required for the timer operations, adjust the clock before using the system.



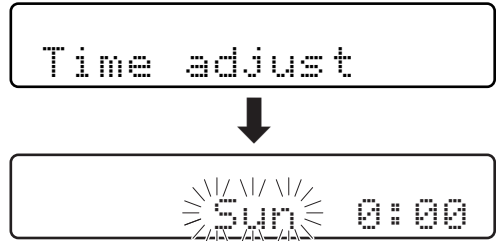
■: Keys and controls used in the operation.

## Preparations

Press the power key to switch the system ON.

## 1 Enter the time adjustment mode

- 1 Press the MODE key**  
MODE
- 2 Select [Time adjust]**  
Advance → Enter the selection  
Return → ENTER



- The day of the week display blinks.

## 2 Adjust the day of the week and time of the day

- 1 Set the day of the week**  
Advance → Enter the selection  
Return
- 2 Set the hour**  
Advance → Enter the selection  
Return
- 3 Set the minute**  
Advance → Enter the selection  
Return

To adjust to Monday evening 8:45 am:



- Press the **ENTER** key to enter the day of the week. The figure of hour starts to blink.

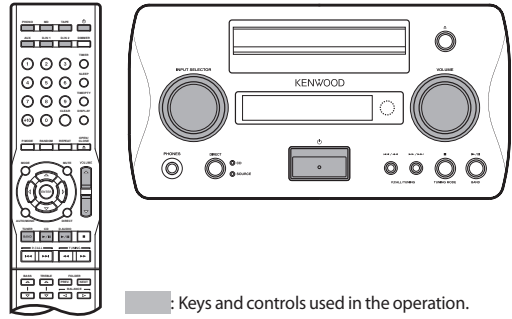


- Press the **ENTER** key to enter the figure of the hour. The figure of minute starts to blink.
- If you press the **ENTER** key by mistake, press the multi-control (<) key to return to the previous item and correct its setting.

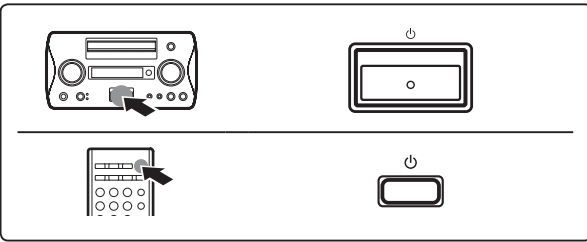


- Press the **ENTER** key at the same time as a time announcement to adjust the accurate time.
- Pressing the **TUNING MODE** key while the system is off (standby mode) displays the current time and the program timer reservation ON/OFF condition for about 5 seconds.

# Basic Operation



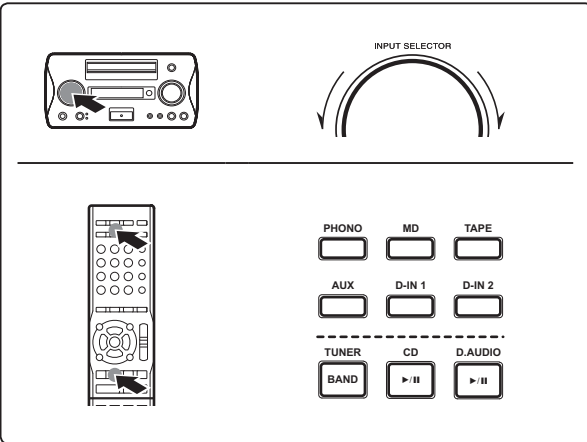
## 1 Switch the system ON



Each press of the power key switches the system mode alternately.

- ① Standby indicator ON: The system power is OFF (standby mode).
  - ② Standby indicator OFF: The system power is ON.
- The system is also switched ON and playback (tuner reception) can be started when the **TUNER/BAND**, **CD ►/II**, **D.AUDIO ►/II** or an input selector (**PHONO**, **MD**, **TAPE**, **AUX**, **D-IN 1**, **D-IN 2**) key on the remote control unit is pressed.

## 2 Select the input source



Turning the knob switches the input functions in the following sequence.

- ① [TUNER]
- ② [CD]
- ③ [D.AUDIO]
- ④ [PHONO]
- ⑤ [MD]
- ⑥ [TAPE]
- ⑦ [AUX]
- ⑧ [D-IN1 (OPT)]\*
- ⑨ [D-IN2 (COAX)]\*

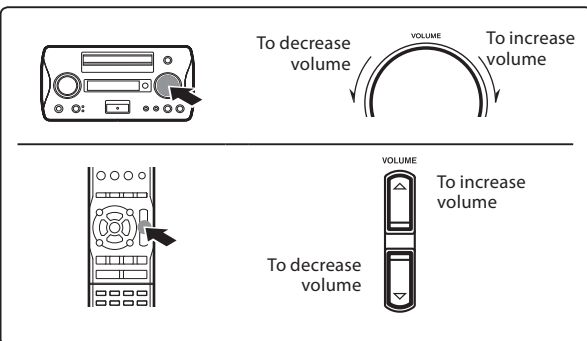


Sampling frequency of the input signal

\* The digital signal that can be reproduced with this system is only the PCM (32 kHz to 96 kHz) signal.

## 3 Play the selected input source

## 4 Adjust the volume




Volume display

• When the volume level is  $-30\text{dB}$  or higher, it can be adjusted more finely in  $0.5\text{ dB}$  steps.

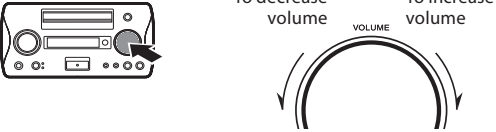
## Listening through headphones

**1** Insert the headphones plug into the [PHONES] jack

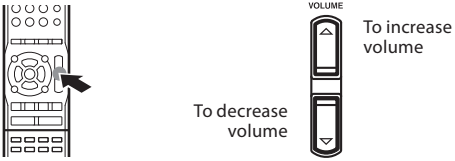
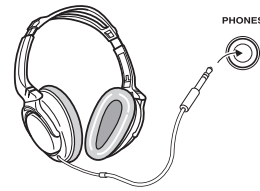


**2** Adjusting the volume

To decrease volume      To increase volume




To decrease volume      To increase volume


- Use headphones equipped with a stereo mini-plug.
- When the plug is inserted into the [PHONES] jack, the audio is no longer output from the speakers.

## Adjusting the tone (BASS/TREBLE)


**Bass adjustment**



To decrease bass level      To increase bass level




Enter the selection




Press within 8 sec.


**Treble adjustment**



To decrease treble level      To increase treble level



Enter the selection



Press within 8 sec.

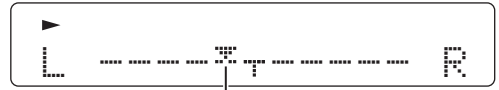
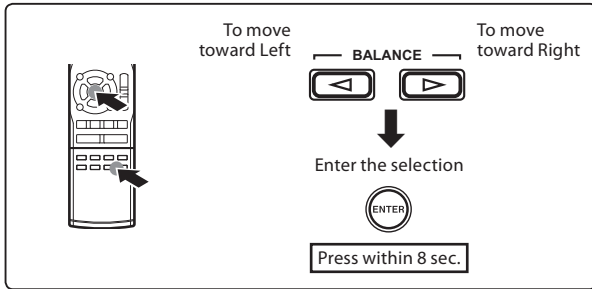
### Display in bass adjustment:



Adjustment level display

- Press the **BASS** or **TREBLE** key shortly to display the current bass or treble level. (Begin the level adjustment within 8 seconds after the display starts.)
- The level can be adjusted between  $-5$  (dB) and  $+5$  (dB) in 1-dB steps.
- When the SOURCE DIRECT function is ON, the tone adjustment using the **BASS** and **TREBLE** keys is defeated. (See page 16.)

### Adjusting the speaker balance (BALANCE)



Balance level display

- Press the **BALANCE** key shortly to display the current speaker balance. (Begin the balance adjustment within 8 seconds after the display starts.)
- During headphones listening, the speaker balance adjustment is defeated.

### Muting audio temporarily (MUTE)



Each press switches the selection.

- ① **[MUTE]** indicator ON: The muting function is ON.

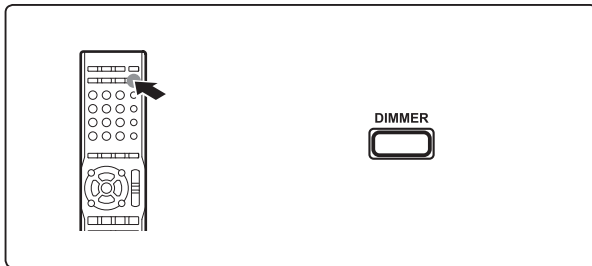


- ② **[MUTE]** indicator OFF: The muting function is OFF (canceled).

- The previous volume resumes when muting is canceled.
- Muting is also canceled when the volume is adjusted.

### Switching the display brightness (DIMMER)

The display brightness can be switched in 3 steps.



Each press switches the selection.

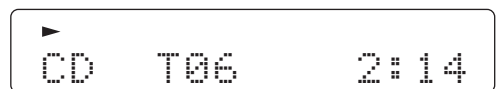
- ① The brightness drops.



- ② The brightness drops further.

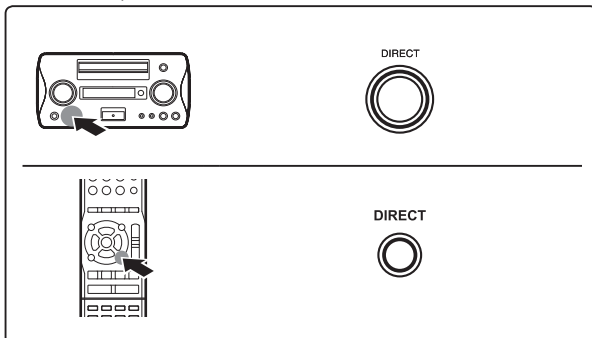


- ③ Dimmer function is OFF (canceled).



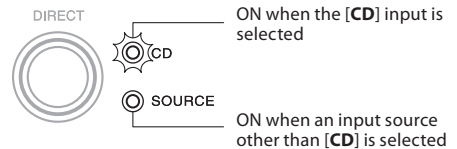
### Enhancing the audio quality (SOURCE DIRECT)

The audio from the CD or an external source component can be reproduced in highest possible quality by bypassing the tone adjustment circuitry (bass and treble).



Each press switches the selection.

- ① **[CD]** or **[SOURCE]** indicator ON: The Source Direct function is ON.



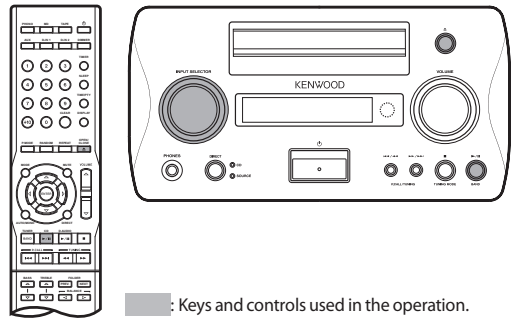
- ② **[CD]** or **[SOURCE DIRECT]** indicator OFF: The Source Direct function is OFF (canceled).

- Do not switch the Source Direct function ON or OFF in the middle of recording.
- When the **SOURCE DIRECT** function is ON, the tone adjustment using the **BASS** and **TREBLE** keys is defeated.

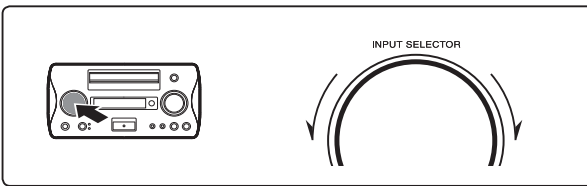


# CD Playback

The following procedure describes how to play the CD tracks from track number 1 in the order they are recorded.

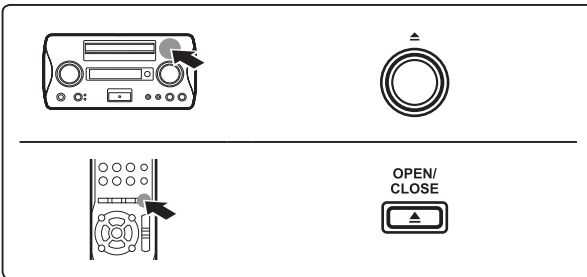


## 1 Select the [CD] input

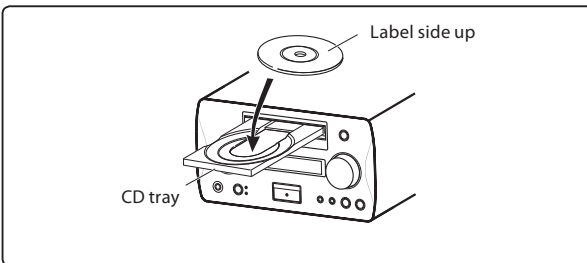


- Provided that a disc is already loaded in the system, simply pressing the **CD ►/||** key on the remote control unit selects the [CD] input source and starts playback.

## 2 Open the tray

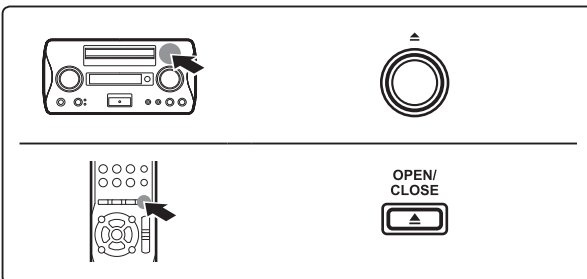


## 3 Load a disc

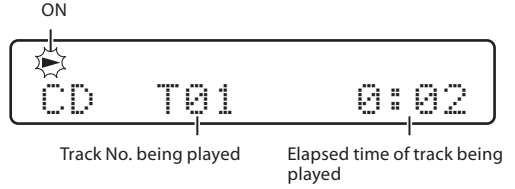
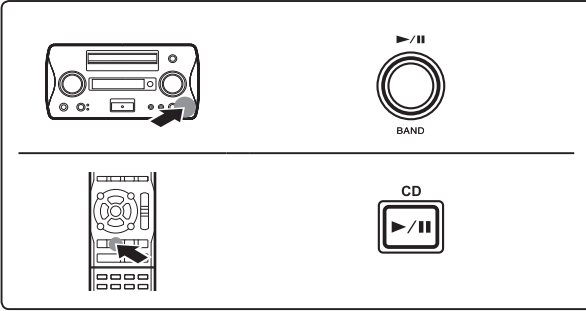


- Do not touch the played side of the disc.
- Do not stack two discs on the tray to prevent malfunction.
- Place the disc correctly, along the groove on the CD tray. (Malfunction may occur if the disc position is deviated.)
- A single CD (8 cm disc) can also be played.
- The commercially available CD single (8 cm) disc adapter cannot be used with this system.

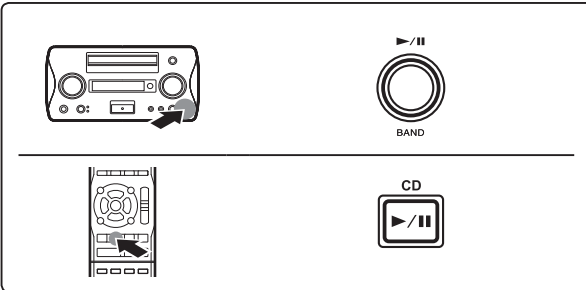
## 4 Close the tray



## 5 Start playback

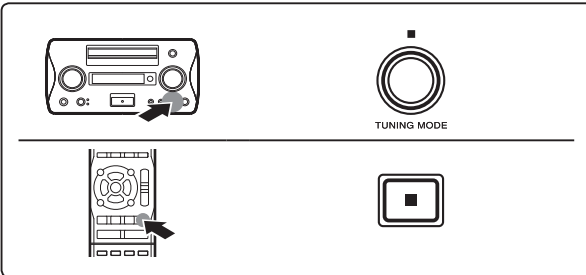


## To let it playback or pause temporarily

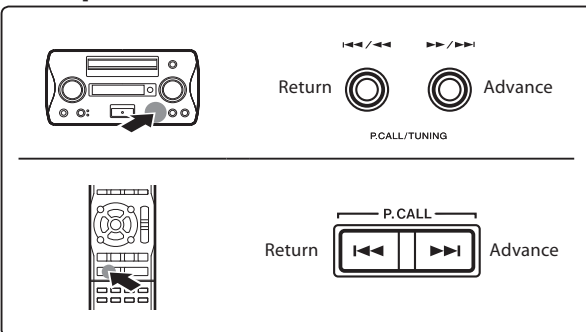


- Each press of the key switches the pause and play modes alternately.

## To stop playback

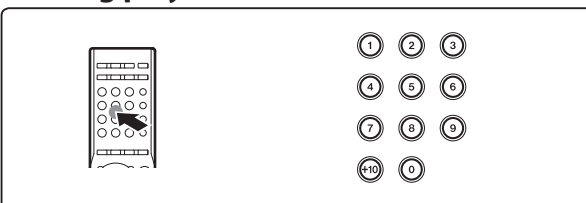


## To skip a track



- Each press skips a track in the direction corresponding to the pressed key, and the track at the skip destination starts to play from the beginning.
- Pressing the **Return** key once during playback skips to the beginning of the track being played and re-plays it.

## Starting playback from the desired track

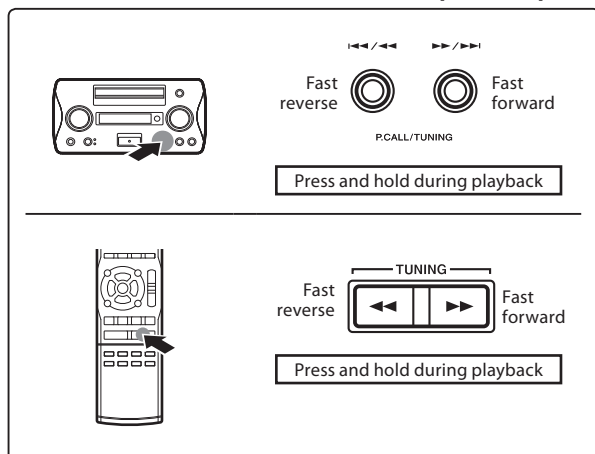


Press numeric keys as follows.

To select track number [15]: **+10**, **5**

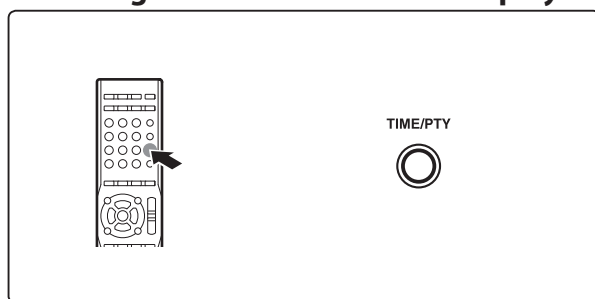
To select track number [20]: **+10**, **+10**, **0**

### To fast forward or fast reverse (search)



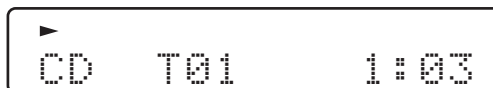
- Press and hold a key for more than 1 second during playback. Normal playback resumes at the moment the key is released.

### Switching the time information display

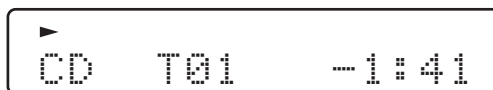


#### Each press switches the selection.

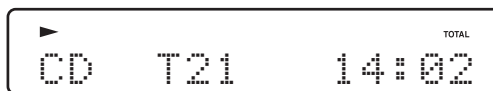
- ① Elapsed time of track being played



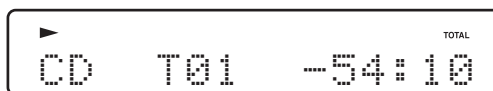
- ② Remaining time of track being played



- ③ Elapsed time of entire disc

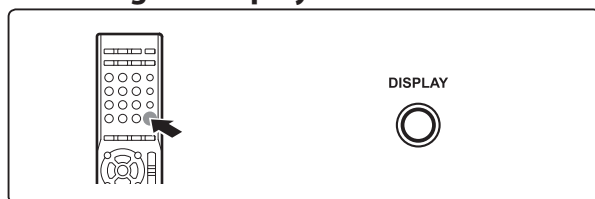


- ④ Remaining time of entire disc



- During program playback, the information is displayed in order of ④, ①, ② and ③. (See page 28.)
- During single-track repeat playback or random playback, only the information ① and ② is displayed. (See pages 30 and 31.)

### Switching the displayed information



#### Each press switches the selection.

- ① CD-TEXT disc title display  
(The track titles are displayed in play mode of CD-TEXT disc, and the disc title is displayed in stop mode.)
- ② Track number display
- ③ Day of the week and time of day display

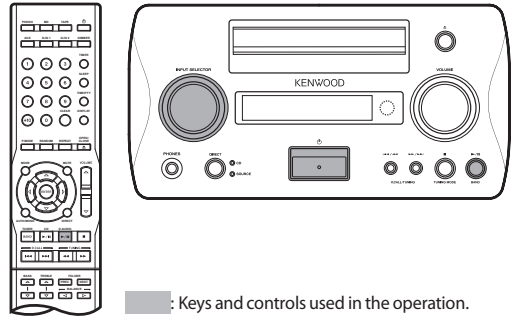
- ① cannot be selected with an ordinary disc or a CD-TEXT disc without character information.
- Information in certain CD-TEXT discs may not be displayed. [CD Text full] is displayed if the character information recorded in a disc exceeds about 1500 characters.

#### Note on the title of CD-TEXT disc

When a CD-TEXT-compatible disc is played, the system automatically displays the title of the disc and the titles of its tracks (provided that they are recorded using alphanumeric characters).

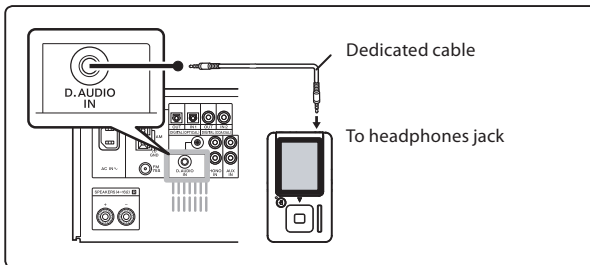
# Playback of Digital Audio Player

When a Kenwood digital audio player is connected to the system using the dedicated cable, the player can be controlled from this system or the remote control unit.



## Controlling the digital audio player

### 1 Connect a digital audio player

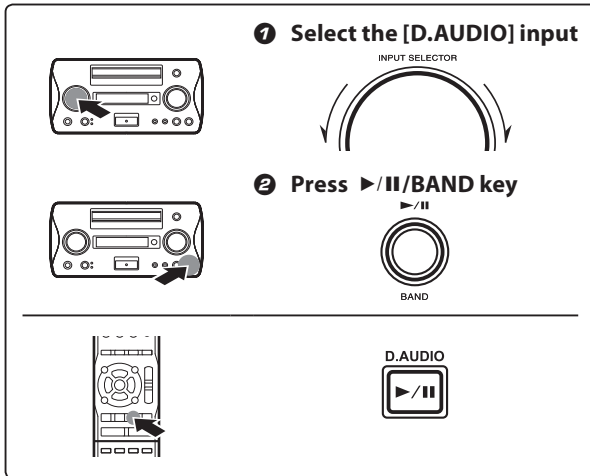


**Both the system and digital audio player should be switched OFF before connecting them.**

- Using the dedicated cable, connect the [D.AUDIO IN] connector on the rear panel of the system and the headphones jack of the digital audio player.
- After playing the digital audio player, be sure to disconnect the connection cable.
- A commercially available stereo mini-plug cable can be used for the connection. In this case, however, the input from the digital audio player can be output from the system but the player cannot be controlled from this system or the remote control unit.

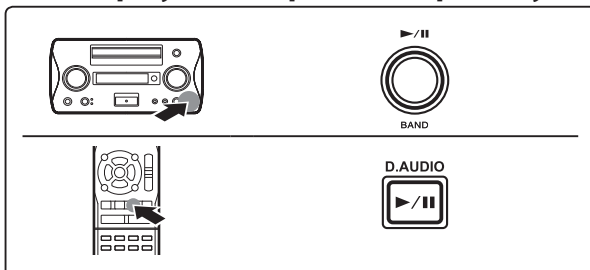
### 2 Switch the system and digital audio player ON

### 3 Start playback



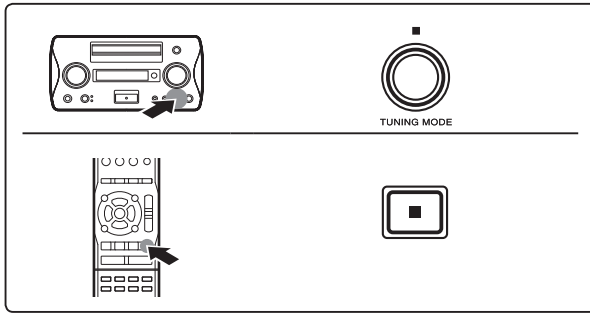
- Simply pressing the **D.AUDIO >||** key on the remote control unit selects the [D.AUDIO] input source and starts playback.

### To let it playback or pause temporarily

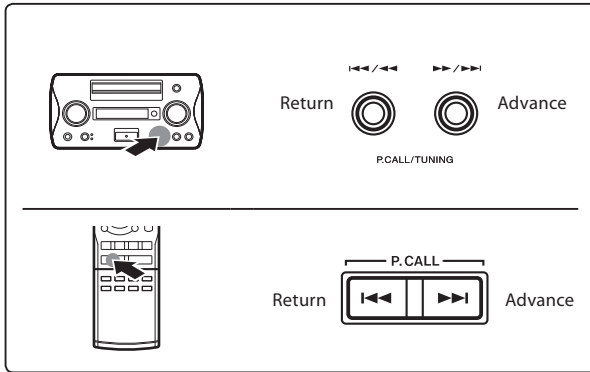


- Each press of the key switches the pause and play modes alternately.

### To stop playback

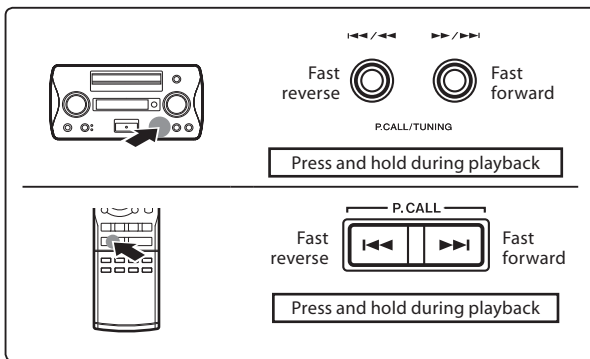


### To skip a track



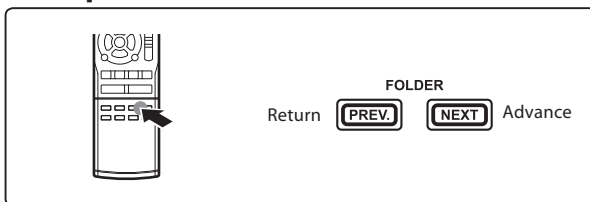
- Each press skips a track in the direction corresponding to the pressed key, and the track at the skip destination starts to play from the beginning.
- Pressing the ◀◀ key once during playback skips to the beginning of the track being played and re-plays it.

### To fast forward or fast reverse (search)

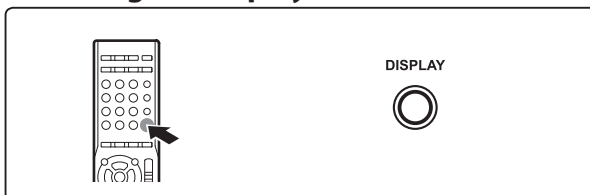


- Press and hold a key for more than 1 second during playback. Normal playback resumes at the moment the key is released.

### To skip a folder



### Switching the displayed information

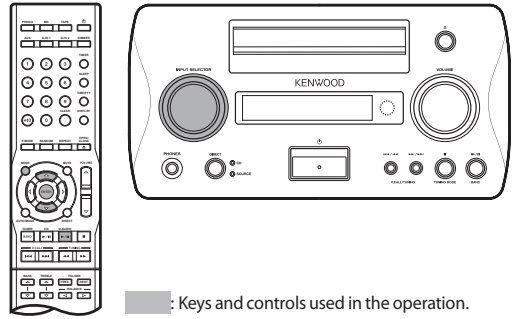


Each press switches the selection.

- ① Input selection display
- ② Day of the week and time of day display

## Playback of Digital Audio Player

The level of the input from the digital audio player connected to the [D.AUDIO IN] connector can be adjusted. Adjust it so that the audio from the digital audio player is played at a similar volume to CD playback.

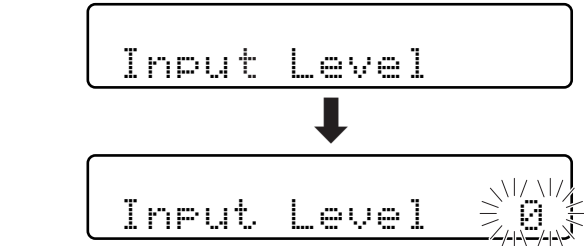
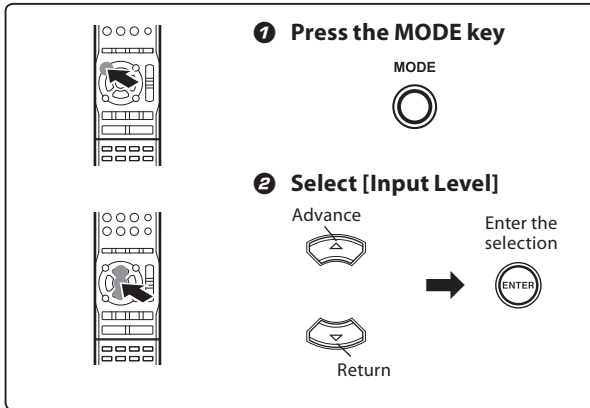


: Keys and controls used in the operation.

## Adjusting the digital audio player input level

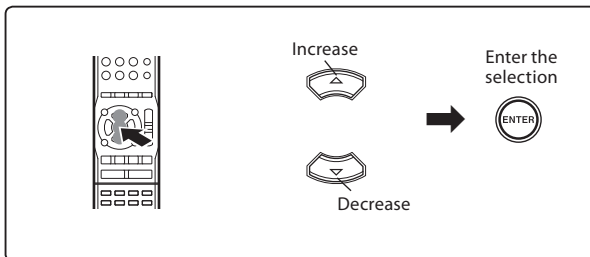
**1** Perform steps **1** and **2** of the procedure in "Controlling the digital audio player" (see page 20.)

**2** Enter the input level adjustment mode



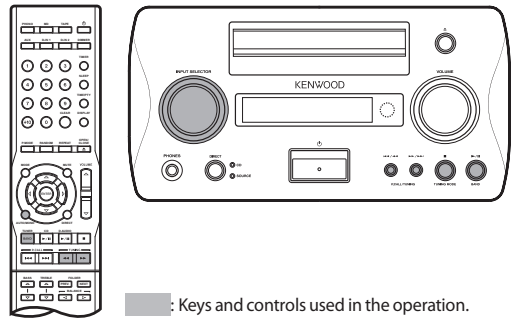
- The input level display starts to blink. (Begin the level adjustment within 20 seconds after the display appears.)

**3** Adjust the input level



- The level can be adjusted in three steps of -6, -3 and 0.
- When the input level is adjusted so that the audio from the digital audio player is played at a similar volume to CD playback, the level of recording from the component connected to the [D.AUDIO IN] connector is also adjusted. Therefore, do not vary the input level in the middle of recording as this will vary the recording level.

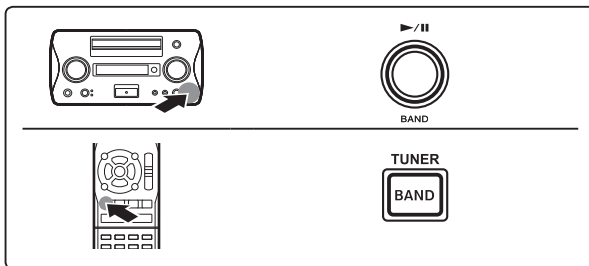
# Radio Reception



Keys and controls used in the operation.

## Receiving radio broadcasting

- 1** Select the [TUNER] input
- 2** Select the FM or AM band



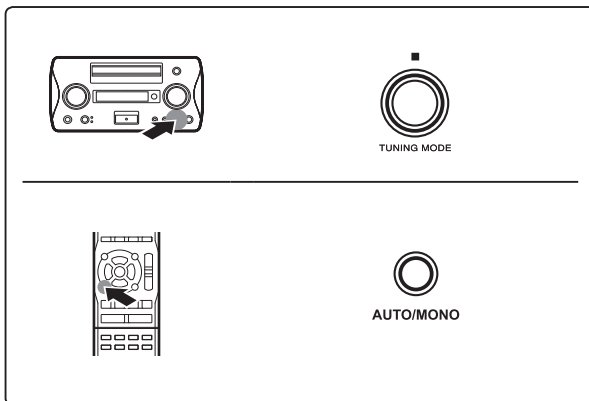
Each press switches the selection.

- ① [FM]
- ② [AM]



Receiving band display

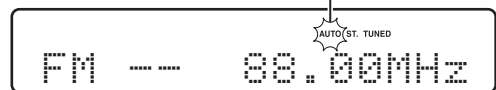
- 3** Select the tuning mode



Each press switches the selection.

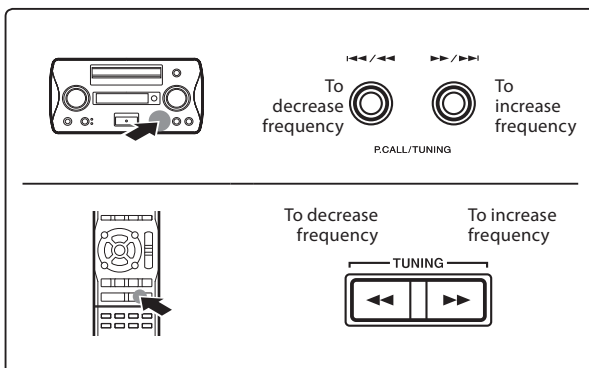
- ① [AUTO] indicator ON: Auto tuning/Stereo reception
- ② [AUTO] indicator OFF: Manual tuning/Monaural reception

ON during auto tuning/stereo reception

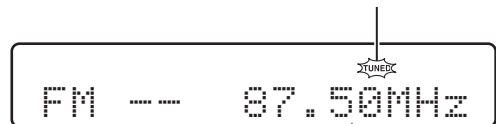


- Normally, use the Auto tuning (stereo reception).
- When the radio wave receiving condition is poor and noisy, set to MONO (manual tuning/monaural reception). The FM broadcasting is played in monaural audio but the audio quality will be improved.

- 4** Select a radio station



ON when a station is turned



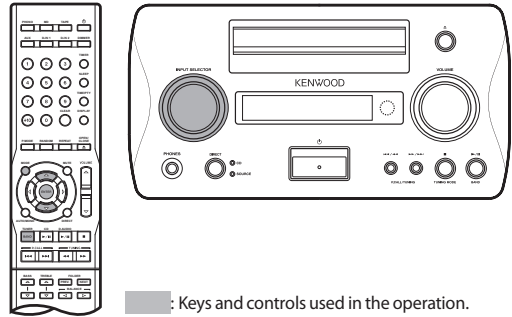
Frequency display

**In auto tuning mode:** Press either key once to receive the next searched station automatically.

**In manual tuning mode:** Press and hold either key to vary the frequency continuously. The frequency scanning stops at the moment the key is released.

## Radio Reception

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



Keys and controls used in the operation.

## Presetting stations automatically (Auto Memory)

- 1 Select the [TUNER] input
- 2 Enter the Auto memory mode

**1 Press the MODE key**

MODE

**2 Select [Auto Memory]**

Advance

Return



### 3 Presetting of Stations

ENTER

Press within 20 sec.




- [Auto Memory] blinks on the display and after a few minutes, up to 40 RDS stations are preset in order from channel 01.
- 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. (See page 25.)





## Presetting Stations Manually (Manual Preset)

A desired station can be selected and preset in the preset memory.



- 


**1 Press the ENTER key during reception of the desired station**



Go to step 2 within 20 sec.
- 

**2 Select the preset number for presetting the station**

Advance  Enter the selection 

Return 

Press within 20 sec.
- 3 Repeat steps 1 and 2 for each station you like**



- The preset number can also be entered directly using the numeric keys on the remote control unit.

**Press numeric keys as follows.**

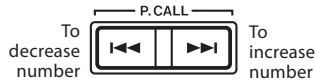
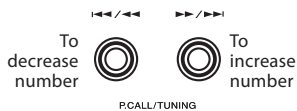
To enter preset number [15]: **+10**, **5**

To enter preset number [20]: **+10**, **+10**, **0**

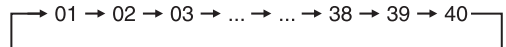
- A preset frequency can be rewritten later.

## Receiving a preset station (Preset Call)

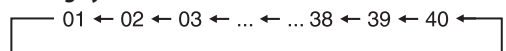
Recalling a preset station by specifying its number:



Press the P.CALL **▶▶** key to increase the preset number in the following cycle.

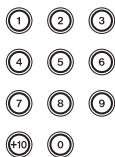


Press the P.CALL **◀◀** key to decrease the preset number in the following cycle.



- Press and hold the key to skip preset stations at about 0.5-second intervals.

Recalling a preset station by specifying its number:



Press numeric keys as follows.

To enter preset number [15]: **+10**, **5**

To enter preset number [20]: **+10**, **+10**, **0**

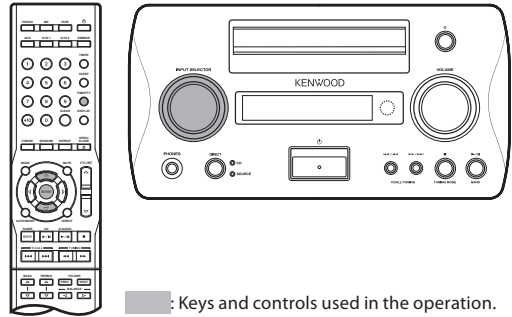
# RDS (Radio Data System)

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.

## Preparations

- Select the FM band.
- Preset RDS stations with the Auto Memory functions. (See page 24.)

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



Grey shaded area: Keys and controls used in the operation.

## PS (Program Service Name) Display

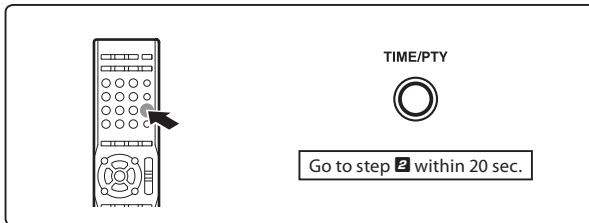
When an RDS broadcast is received, the station name is automatically displayed.



- [RDS] indicator lights up when an RDS broadcast (signal) is received.

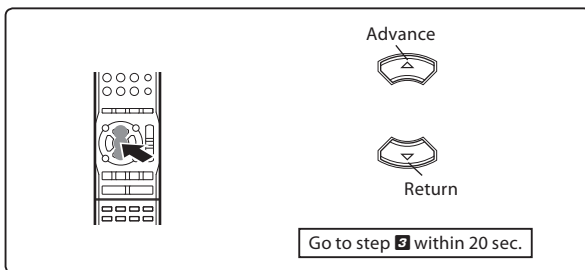
## Searching for a desired program type (PTY search)

### 1 Press the PTY key



- 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 Select the desired program type

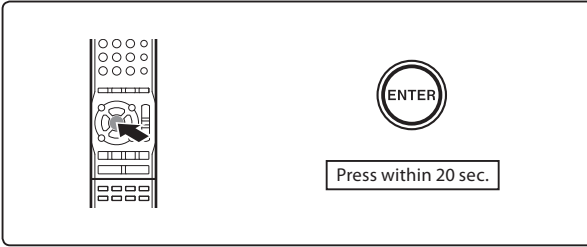


- Select it while [PTY] indicator is lit.
- Use program type table for your convenience.

### Program type table:

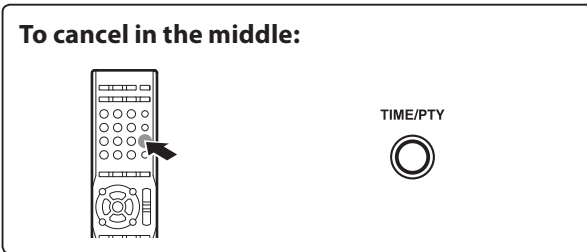
Program Type Name	Display	Program Type Name	Display	Program Type Name	Display
Pop Music	Pop M	Education	Educate	Phone In	Phone In
Rock Music	Rock M	Drama	Drama	Travel	Travel
Easy Listening Music	Easy M	Culture	Culture	Leisure	Leisure
Light Classical	Light M	Science	Science	Jazz Music	Jazz
Serious Classical	Classics	Varied	Varied	Country Music	Country
Other Music	Other M	Weather	Weather	National Music	Nation M
News	News	Finance	Finance	Oldies Music	Oldies
Current Affairs	Affairs	Children's programs	Children	Folk Music	Folk M
Information	Info	Social Affairs	Social	Documentary	Document
Sport	Sport	Religion	Religion		

### 3 Start the search



- No sound is heard while [PTY] indicator is blinking.
- 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.
- If a program of the desired type cannot be found, [No Program] blinks, then after several seconds the display returns to the original display.

#### To cancel in the middle:



#### To switch the displays



#### Each press switches the selection.

##### When an RDS broadcasts is received:

- ① Program Service name (See page 26.)
- ② Frequency
- ③ Day of Week/Clock

##### When other than RDS broadcasts is received (FM):

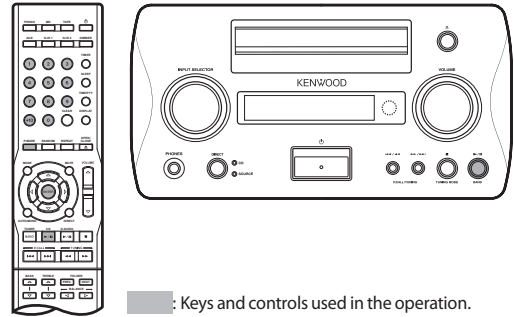
- ① Frequency
- ② [No PS]
- ③ Day of Week/Clock


##### When the AM band is received:

- ① Frequency
- ② Day of Week/Clock

# Playback of Tracks in Desired Order (Program Playback)

Playback of Desired Music in Desired Order (max. 30 tracks)



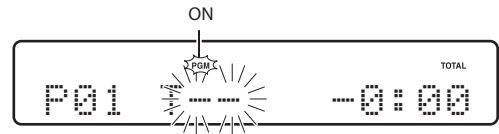
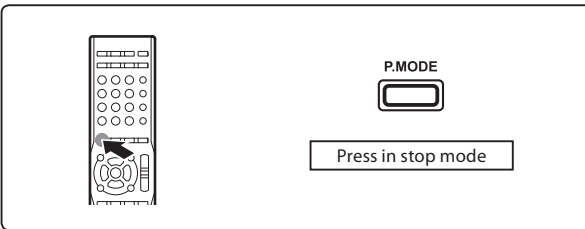
: Keys and controls used in the operation.

## Preparations

- Place a CD on the tray.
- Select the [CD] input.

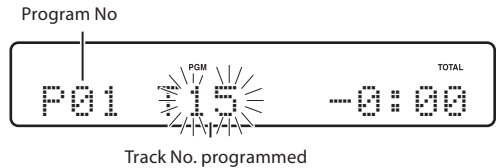
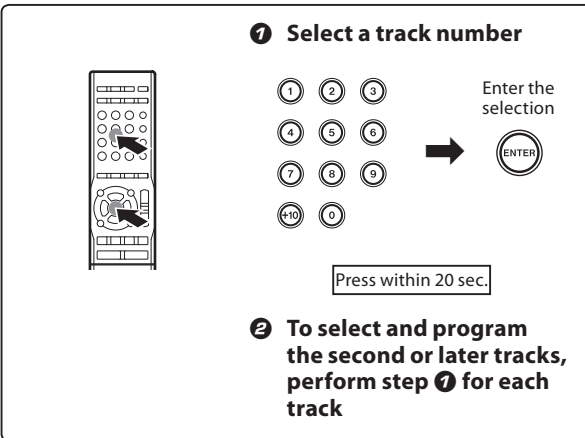
ENGLISH

## 1 Enter program play mode (This mode should be entered from stop mode)



- Pressing the **P.MODE** key while the [PGM] indicator is lit turns the indicator OFF.

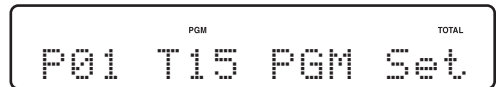
## 2 Program the desired tracks



Press numeric keys as follows.

To select track number [15]: [+10], [5]

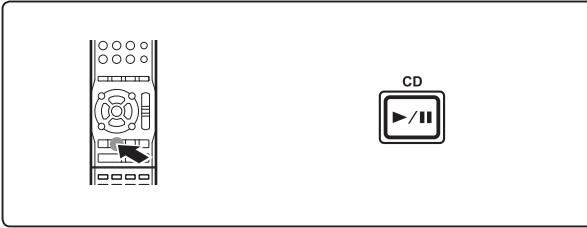
To select track number [20]: [+10], [+10], [0]



Total play time of programmed tracks

- Up to 32 tracks can be programmed. When [Program full] is displayed, no more track can be programmed.
- If you make a mistake in track number selection, press the **CLEAR** key and retry selection.
- The time displays becomes [-- : --] when the total playing time of the programmed tracks reaches 1000 minutes.

### 3 Start playback



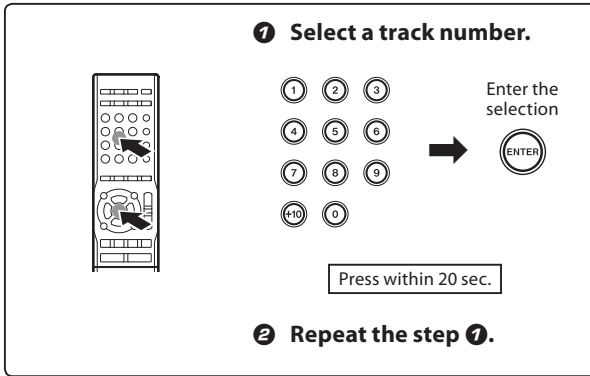
- Tracks are played in the order they were programmed (in order of program numbers).
- Pressing the ◀◀ key once during program playback skips to the beginning of the track being played and re-plays it. Press the ◀◀ key twice to return to the track before the one being played.
- Pressing the ▶▶ key during program playback skips to the next track.

### To stop playback



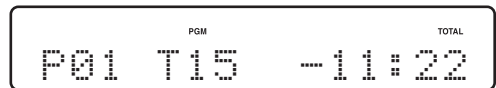
- The programmed tracks are held in memory even after programmed playback is stopped.

### To add tracks



Blinking

- No track can be added to the program during program playback.



Total play time of programmed tracks

- Up to 32 tracks can be programmed. When [Program full] is displayed, no more track can be programmed.
- If you make a mistake in track number selection, press the CLEAR key and retry selection.
- The selected track number is added to the end of the program.

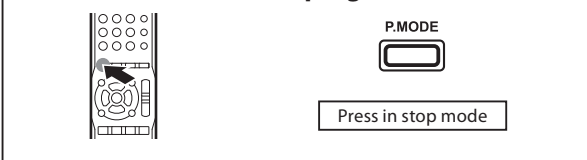
### Clearing programmed tracks

#### To clear the last track in the program:



- Each press of the CLEAR key clears the currently last track in the program.
- Tracks cannot be cleared from the program in the middle of playback.

#### To clear all tracks in the program:

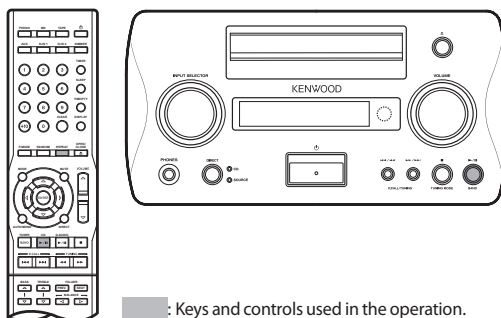


- When the system is switched off (to standby mode) or the CD tray is opened, the program play mode is canceled and all of the programmed tracks are cleared from the memory.

# Playback in Repeated Cycle (Repeat Playback)

## Preparations

- Place a CD on the tray.
- Select the [CD] input.



■: Keys and controls used in the operation.

## Repeating the disc or track(s)

- 1 Ensure that the [PGM] indicator is OFF

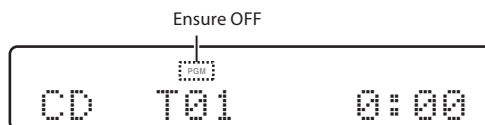
- 2 Switch the Repeat function ON



- 3 Start playback

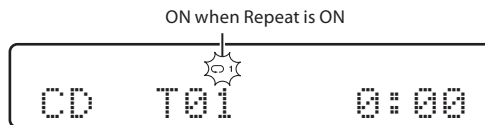


- If the [PGM] indicator is lit, press the **P.MODE** key in stop mode to turn the indicator OFF.



Each press switches the selection.

- 1 [CD 1] indicator ON: Single-track repeat playback.
- 2 [CD] indicator ON: All-track repeat playback.
- 3 Indicators OFF: Repeat playback canceled.



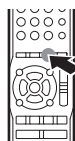
- Single-track repeat playback cannot be selected during program playback or random playback. (See pages 28 and 31.)
- If single-track repeat playback is selected ([CD 1] indicators ON) during normal playback, the track being played will be played repeatedly.
- The Repeat function is canceled when the CD tray is opened.

## Repeating program playback

All of the programmed tracks can be played repeatedly.

- 1 Program the desired tracks  
(Perform steps 1 and 2 of the procedure on page 28.)

- 2 Switch the Repeat function ON

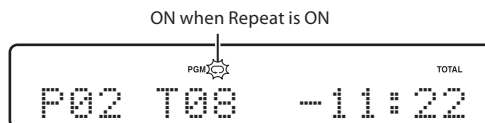


- 3 Start playback



Each press switches the selection.

- 1 [CD], [PGM] indicator ON: Program repeat playback.
- 2 [CD] indicator OFF: Repeat playback canceled.



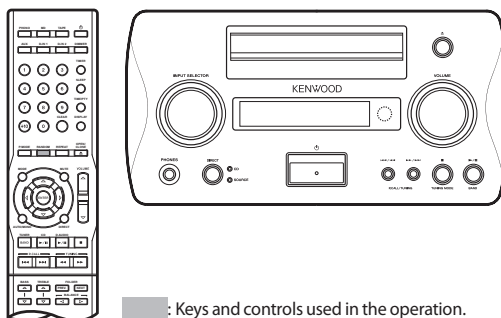
- The Repeat function is canceled when the CD tray is opened.

# Playback of Tracks in Random Order (Random Playback)

Random playback plays tracks in a random order so that a single disc can be enjoyed for long hours without tiring.

## Preparations

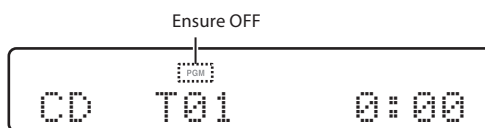
- Place a CD on the tray.
- Select the [CD] input.



■: Keys and controls used in the operation.

## 1 Ensure that the [PGM] indicator is OFF

- If the [PGM] indicator is lit, press the **P.MODE** key in stop mode to turn the indicator OFF.



## 2 Switch the Random function ON

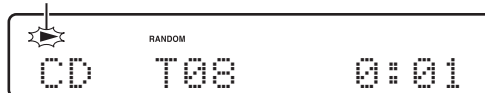
Each press switches the selection.

- ① [RANDOM] indicator ON: Random playback
- ② [RANDOM] indicator OFF: Random playback canceled.

ON when RANDOM is ON



ON



- Every time a track has been played, the system selects the next played track at random.
- Random playback is canceled when all of the tracks in the disc have been played.
- Random playback can be repeated by pressing the **REPEAT** key.

## Selecting another track during playback

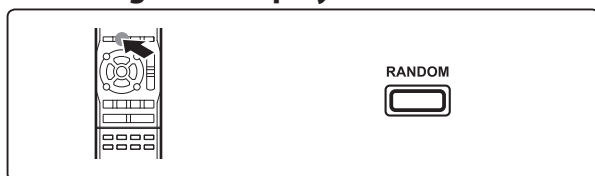
Press the ►► key



- Pressing the ◀◀ key once skips to the beginning of the track being played and re-plays it.

## Canceling random playback

- Press the **RANDOM** key to return to the normal playback in order of tracks. The [RANDOM] indicator is switched OFF.
- Random playback can also be canceled by pressing the ■ key. In this case, the playback itself is also stopped.

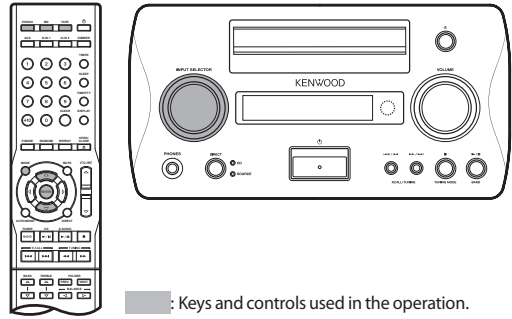


# Adjustment of Input Levels from External Components

The level of the analog signal input from each external component can be adjusted independently for the [PHONO], [MD], [TAPE] and [AUX] input sources. Adjust the input levels so that the audio from the external components are played at a similar volume to CD playback.

## Preparations

- Connect the external components in advance as described in "Connecting Associated Products (Commercially Available)". (See page 9.)
- Switch the external components ON.



■: Keys and controls used in the operation.

ENGLISH

**1** Perform the procedure in "Basic Operation" till step **2** to select the [PHONO], [MD], [TAPE] or [AUX] input (see page 14.)

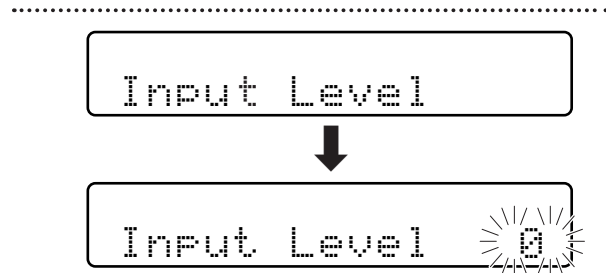
**2** Enter the input level adjustment mode

**1** Press the MODE key

**2** Select [Input Level]

Advance → Enter the selection.

Return



- The input level display starts to blink. (Begin the level adjustment within 20 seconds after the display appears.)

**3** Adjust the input level

Increase → Enter the selection

Decrease



- The level can be adjusted in three steps of -6, -3 and 0. (Begin the level adjustment within 20 seconds.)
- When the input level is adjusted so that the audio from the selected external component is played at a similar volume to CD playback, the level of recording the signal from the input connector is also adjusted to a similar level regardless of the input source component. Therefore, do not vary the input level in the middle of recording as this will vary the recording level.

## Switching the displayed information

DISPLAY

Each press switches the selection.

- ① Input selection display
- ② Day of the week and time of day display



# Timer Operations

The timer function allows the system to be used as an alarm music player.

## Program timer

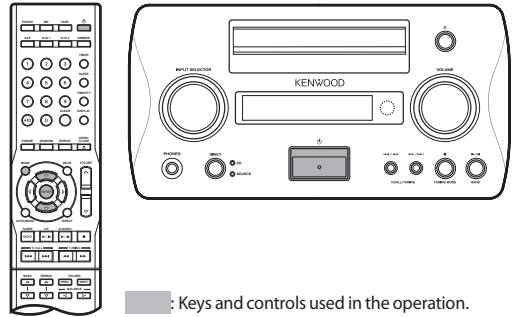
The system plays the selected input source at the set specified time.

## Sleep timer (See page 36.)

The system switches OFF automatically after the set time has elapsed.

### Preparations

Adjust the system clock in advance as described in "Time Adjustment". (See page 13.)



Keys and controls used in the operation.


## Making the program timer reservation

After the operation time zone and other details are set, the same timer program can be used repeatedly or canceled.

- Two timer programs can be set for [Program 1] and [Program 2].
- Leave an interval of at least 1 minute between the two timer programs so that they do not overlap.

After making the program timer reservation, switch the system OFF (standby mode) and ensure that the standby indicator lights orange.

## 1 Make preparations for playback

Radio Reception	CD Playback
<b>Presetting of Stations</b> <ul style="list-style-type: none"> <li>• Select a radio station with its preset number.           <ul style="list-style-type: none"> <li>"Presetting stations automatically (Auto Memory)" (See page 24.)</li> <li>"Presetting Stations Manually (Manual Preset)" (See page 25.)</li> </ul> </li> </ul>	Place a disc (note that program playback of CD is not available with timer operation). (See page 17.) 

## 2 Enter the timer setting mode

**1 Press the MODE key**

MODE

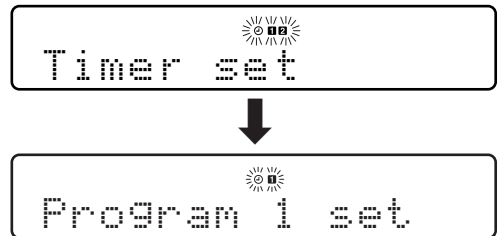
**2 Select [Timer set]**

Advance → Enter the selection

Return

Example for setting a timer program that plays a radio station from 10:30 am to 11:30 am every Friday in [Program 2]:

- If a timer program that has already been set is selected, the previous setting will be overwritten by the new setting.



## 3 Select the timer program number to be set

Advance → Enter the selection

Return

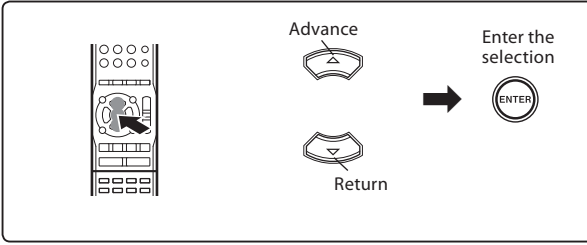
Each press switches the selection.

- ① [Program 1 set]: [1] and [1] indicators ON
- ② [Program 2 set]: [2] and [2] indicators ON

Example for selecting [Program 2]:

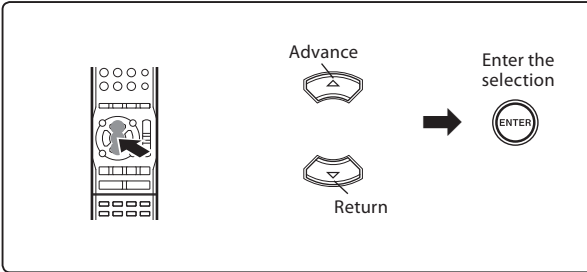


## 4 Select the program timer on or off



- When [Program 1 off] or [Program 2 off] is selected, the display returns to the original status.
- If you press the **ENTER** key by mistake, press the multi-control (<) key to return to the previous item and correct its setting.

## 5 Select the day of the week on which the timer program is executed.



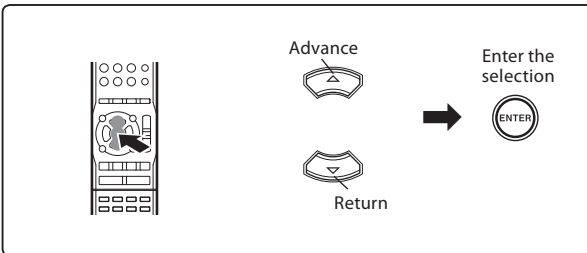
Each press switches the selection.

- |               |                       |   |
|---------------|-----------------------|---|
| ① [Everyday]  | : Everyday            | } The timer operation will be repeated until the program is canceled.   |
| ② [Sunday]    | : Sunday              |   |
| ③ [Monday]    | : Monday              |   |
| ④ [Tuesday]   | : Tuesday             |   |
| ⑤ [Wednesday] | : Wednesday           | } After selecting one of these, go to step 6 to select whether the timer is operated every week or only once. |
| ⑥ [Thursday]  | : Thursday            |   |
| ⑦ [Friday]    | : Friday              |   |
| ⑧ [Saturday]  | : Saturday            |   |
| ⑨ [Mon – Fri] | : Monday to Friday    | } The timer operation will be repeated until the program is canceled.   |
| ⑩ [Tue – Sat] | : Tuesday to Saturday |   |
| ⑪ [Sat – Sun] | : Saturday and Sunday |   |



- When you have selected one of the timer operation that will be repeated until the program is canceled, go to step 7.

## 6 Select how the timer operation will be executed

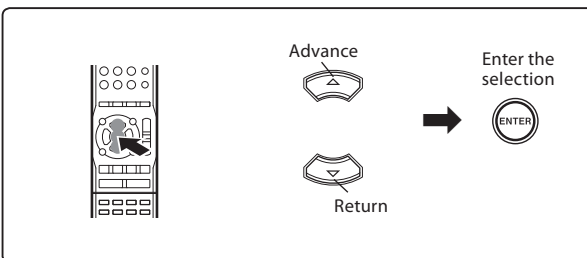


Each press switches the selection.

- ① [Every week]: The timer operation is executed every week.
- ② [Onetime]: The program timer is switched off after the timer operation was executed once.




## 7 Set the timer operation on time and off time






- Both the on time and off time can be set in the same way; press the multi-control (Δ or ∇) key to select the figure of hour, press the **ENTER** key to enter it, press the multi-control key to select the figure of minute, and press the **ENTER** key to enter it.

## 8 Set the details of the timer program.


**1 Select the desired volume level to be increased when a program timer is activated**






Advance  → Enter the selection 

Return 


**2 Adjust the volume**






Advance  → Enter the selection 

Return 


**3 Select an input source**






Advance  → Enter the selection 

Return 

**4 Select a preset number ([TUNER] only)**

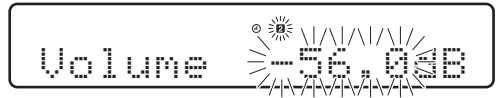


Advance  → Enter the selection 

Return 

Each press switches the selection.

- ① [Play]: The timer operation starts with the volume level set in step 1-2.
- ② [AI Play]: The timer operation starts by gradually increasing the volume till the level set step 1-2.



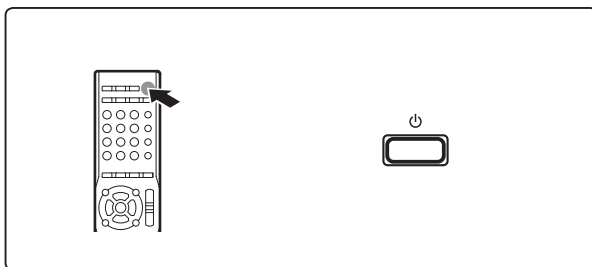
Each press switches the selection.

- ① [TUNER] (Radio broadcasting)
- ② [CD]



- Select a radio station with its preset number. "Presetting stations automatically (Auto Memory)" (See page 24.) "Presetting Stations Manually (Manual Preset)" (See page 25.)
- [Complete] is displayed when the setting is completed by pressing the ENTER key.

## 9 Switch the system power OFF (standby mode)



- When the system is switched to OFF (standby mode), the standby indicator lights orange and the program timer is activated (timer standby mode).
- If the standby indicator blinks orange, it is required to adjust the clock of the system. (See page 13.)

## Reactivating/canceling the timer program

The settings made in "Making the program timer reservation" can be reactivated or canceled. (See page 33.)

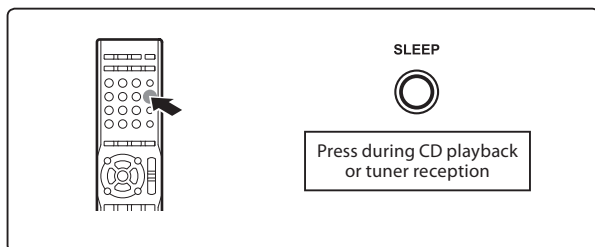


Each press switches the selection.

- ① [⊕] and [1] indicators ON: Activates the [Program 1] timer operation.
  - ② [⊕] and [2] indicators ON: Activates the [Program 2] timer operation.
  - ③ [⊕], [1] and [2] indicators ON: Activates the [Program 1] and [Program 2] timer operations.
  - ④ All OFF: The program timer operation is canceled.
- The program setting is held in memory even after the timer operation is canceled.

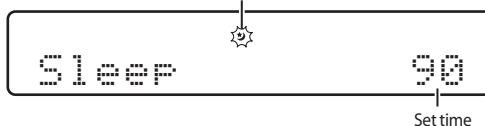
## Setting the Sleep timer (SLEEP)

The system switches OFF (standby mode) automatically after the set period of time has elapsed.



Each press switches the selection.

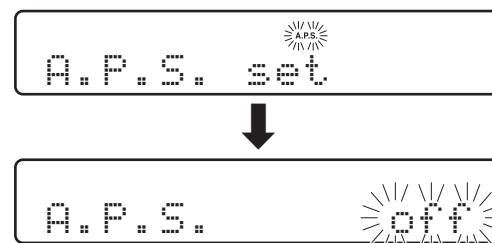
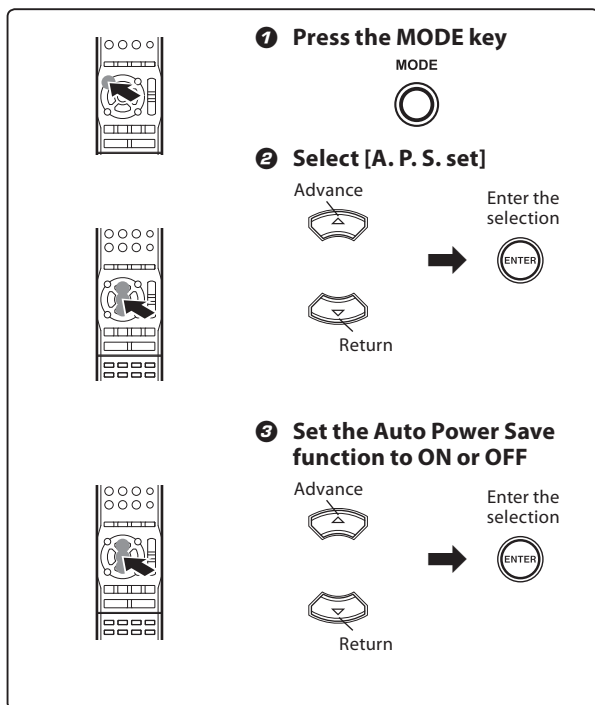
10 → 20 → 30 ..... 70 → 80 → 90 → canceled → 10 → 20 ...  
Lights when the sleep timer is ON



- Each press of the key increments the time by 10 minutes. The sleep time can be set up to 90 minutes.
- The sleep timer is canceled when the system is switched OFF (standby mode).
- Pressing the SLEEP key while the sleep timer is activated displays the remaining time until the sleep timer expires.

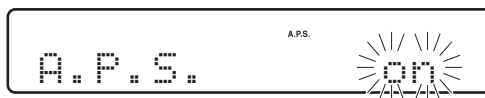
## Using the Auto Power Save function (AUTO POWER SAVE: A.P.S.)

When this function is ON, the system switches OFF (standby mode) automatically when it has been left untouched in the CD stop mode for about 30 minutes. This function is convenient in assisting you in case you forget to switch the system OFF.



Each press switches the selection.

- ① [A. P. S. on]: Auto Power Save ON.
- ② [A. P. S. off]: Auto Power Save OFF.



- When the selected input source is other than [CD], the A.P.S. function is activated only when the volume level is ∞ or the Mute function is ON.

# For Your Information

## Handling of CD

### Handling precautions

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


### Discs playable on the system

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

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

If the 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  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.

## 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.

## Caution for Transport or Movement

Before transporting or moving the system, prepare it as described below.

- ① Switch the system ON without placing a disc in it.
- ② Ensure that **[No Disc]** is displayed.
- ③ Wait a few seconds, and then switch the system OFF.

# Troubleshooting

Troubles are not always due to malfunction or failure of the system. In case of a trouble, check the following tales before calling for service.

## Resetting the Microcomputer

The built-in microcomputer may malfunction (e.g. impossibility of control, erroneous display, etc.) if the power cord is unplugged and plugged while the system is set to ON or an extraneous cause.

If this happens, try the following operation to reset the micro-computer and restore the system in normal condition.

**Unplug the power cord from the wall power outlet and, while pressing and holding the power key of the system, plug the power cord again.**

**The following message is displayed when the micro-computer is reset.**

Initialize

- If the microcomputer is reset while a CD is placed on the CD tray, the disc would be detected automatically. Be sure to take out the CD and close the CD tray before resetting.
- Resetting the microcomputer results in erasing the setups of the system and returns it to the factory-shipped condition.

## Amplifier Block

Symptom	Remedy
The system cannot be switched ON by pressing the power switch.	<ul style="list-style-type: none"> <li>● Insert the power plug all the way into the wall power outlet firmly.</li> </ul>
No audio output.	<ul style="list-style-type: none"> <li>● Connect the speakers properly as described in "<b>Connecting the speakers</b>". (See page 7.)</li> <li>● If the volume is set to the minimum level, turn the VOLUME control slowly up to an optimum volume.</li> <li>● Cancel the Muting function. (See page 16.)</li> <li>● If headphones are connected, disconnect the plug.</li> </ul>
The standby indicator blinks in red and no audio is output.	<ul style="list-style-type: none"> <li>● The protection circuitry may be activated by short-circuiting of a speaker cord. Unplug the power cord from the power outlet, switch the system OFF and remove the short-circuiting of the speaker cord.</li> <li>● The protection circuitry may be activated because the impedance of the speakers is lower than specified. Use speakers with the specified impedance.</li> <li>● There may be an internal defect. Switch it OFF, unplug the power cord and call for service.</li> </ul>
The standby indicator blinks in orange.	<ul style="list-style-type: none"> <li>● If there is a power failure or the power cord is unplugged from the power outlet, the current time of the clock is reset to the factory-set condition. Adjust the time again as described in "<b>Time Adjustment</b>". (See page 13.)</li> <li>● The on time and off time of the program timer are not set properly. Set them properly as described in "<b>Making the program timer reservation</b>". (See page 33.)</li> </ul>
No audio from headphones.	<ul style="list-style-type: none"> <li>● Check if the headphones plug is connected properly. (See page 15.)</li> <li>● Increase the volume gradually. (See page 14.)</li> <li>● Cancel the Muting function. (See page 16.)</li> </ul>
One of the speakers does not output audio or the volume of one speaker is low.	<ul style="list-style-type: none"> <li>● Connect the speakers properly as described in "<b>Connecting the speakers</b>". (See page 7.)</li> <li>● Adjust the speaker balance properly as described in "<b>Adjusting the speaker balance (BALANCE)</b>". (See page 16.)</li> </ul>
A humming noise is produced when the [PHONO] input is selected.	<ul style="list-style-type: none"> <li>● Check if the audio cords are inserted completely into the [PHONO IN] connectors, and that the signal GND wire is connected firmly to the GND terminal on the rear panel. Connect them properly as described in "<b>Connecting Associated Products (Commercially Available)</b>". (See page 9.)</li> </ul>
Time display is stopped and blinking.	<ul style="list-style-type: none"> <li>● If there is a power failure or the power cord is unplugged from the power outlet, the current time of the clock is reset to the factory-set condition. Adjust the time again as described in "<b>Time Adjustment</b>". (See page 13.)</li> </ul>
The program timer cannot be activated.	<ul style="list-style-type: none"> <li>● If there is a power failure or the power cord is unplugged from the power outlet, the current time of the clock is reset to the factory-set condition. Adjust the time again as described in "<b>Time Adjustment</b>". (See page 13.)</li> <li>● Either or both the on time and off time of the program timer are not set or they are set at the same time of the day. Set them properly as described in "<b>Making the program timer reservation</b>". (See page 33.)</li> <li>● The program timer is not activated. Press the <b>TIMER</b> key to activate it. (See page 36.)</li> </ul>

**Amplifier Block (continued)**

Symptom	Remedy
The recorded audio is interrupted.	<ul style="list-style-type: none"> <li>Do not adjust the input level (see pages 22 and 32) or switch the Source Direct function ON or OFF (see page 16) in the middle of recording on an external component.</li> </ul>

**Tuner Block**

Symptom	Remedy
Radio stations cannot be tuned.	<ul style="list-style-type: none"> <li>Connect the antennas properly as described in "Connecting the antennas". (See page 6.)</li> <li>Select the appropriate radio band as described in "Receiving radio broadcasting". (See page 23.)</li> <li>Tune the frequency of the desired radio station as described in "Receiving radio broadcasting". (See page 23.)</li> </ul>
Noise interferes with reception.	<ul style="list-style-type: none"> <li>Install the outdoor antenna away from the road.</li> <li>Switch off the nearby electrical appliances.</li> <li>Install the system away from a TV or PC.</li> </ul>
A preset station cannot be received by pressing the P.CALL key.	<ul style="list-style-type: none"> <li>The frequency of the preset system cannot be received with the system.</li> <li>Select the [TUNER] input.</li> </ul>

**CD Block**

Symptom	Remedy
No audio from the loaded disc.	<ul style="list-style-type: none"> <li>Place the CD properly with the label side up. (See page 17.)</li> <li>Clean the disc as described in "Care and storage of CD". (See page 37.)</li> <li>Wait for the condensed dew to evaporate as described in "Care and storage of main unit". (See page 37.)</li> </ul>
No sound output.	<ul style="list-style-type: none"> <li>Press the CD ►/II key to enter play mode.</li> <li>Clean the disc as described in "Care and storage of CD". (See page 37.)</li> </ul>
CD sound skips.	<ul style="list-style-type: none"> <li>Install the system in a vibration-free environment.</li> <li>Clean the disc as described in "Care and storage of CD". (See page 37.)</li> </ul>

**Remote Control Unit**

Symptom	Remedy
Remote control is unavailable.	<ul style="list-style-type: none"> <li>Replace the batteries with new R03 batteries. (See page 12.)</li> <li>Point the remote control unit to the remote sensor of the system and control it from within the controllable distance. (See page 12.)</li> </ul>

**Message List**

Displayed Message	Description
[CD No Text]	<ul style="list-style-type: none"> <li>The CD does not contain the CD-TEXT information.</li> </ul>
[CD PGM mode]	<ul style="list-style-type: none"> <li>Random playback is attempted in the program play mode.</li> </ul>
[Check Disc]	<ul style="list-style-type: none"> <li>The TOC data* of the CD cannot be read.</li> <li>The disc is not loaded properly.</li> </ul>
[Non-PCM]	<ul style="list-style-type: none"> <li>A signal other than a PCM signal is applied to the [DIGITAL (OPTICAL) IN 1] or [DIGITAL (COAXIAL) IN 2] connector on the rear panel.</li> </ul>
[Unlock]	<ul style="list-style-type: none"> <li>The component connected to the [DIGITAL (OPTICAL) IN 1] or [DIGITAL (COAXIAL) IN 2] connector on the rear panel is not switched ON or no signal is input from the component.</li> </ul>
[-- kHz]	<ul style="list-style-type: none"> <li>The sampling signal used with the PCM signal being input is not compatible with this system.</li> </ul>

\* The CD records information called TOC (Table Of Contents) in addition to music data. Like the table of contents of a book, the TOC data includes data that cannot be rewritten, such as the number of tracks, their play time and other character information.

# Specifications

## [Amplifier Block]

Rated output power during STEREO operation (IEC)	
..... 38 W + 38 W (20 Hz - 20 kHz, 0.07 % T.H.D., at 6Ω)	
..... 45 W + 45 W (20 Hz - 20 kHz, 0.07 % T.H.D., at 4Ω)	
Effective output power during STEREO operation (RMS)	
..... 55 W + 55 W (1 kHz, 10 % T.H.D., at 6Ω)	
..... 70 W + 70 W (1 kHz, 10 % T.H.D., at 4Ω)	
Total harmonic distortion	
..... 0.015 % (20 Hz - 20 kHz, 10 W, 6 Ω)	
..... 0.003 % (1 kHz, 10 W, 6 Ω)	
Frequency response (IHF'66)	
LINE (AUX, MD, TAPE, D. AUDIO)	
..... 5 Hz - 100 kHz (+ 0 dB -- 3 dB)	
PHONO 'RIAA' response..... 20 Hz - 20 kHz (+ 1.0 dB -- 1.0 dB)	
Maximum input level	
PHONO (MM) ..... 50 mV (0.1 % T.H.D., at 1 kHz)	
Signal to noise ratio (IHF'66)	
PHONO (MM) ..... 90 dB	
LINE (AUX, MD, TAPE, D. AUDIO) ..... 100 dB	
Tone control	
BASS ..... ± 4 dB (at 100 Hz)	
TREBLE ..... ± 4 dB (at 10 kHz)	
Input sensitivity/impedance	
PHONO (MM) ..... 12 mV/31 kΩ	
LINE (AUX, MD, TAPE) ..... 520 mV/100 kΩ	
LINE (D. AUDIO) ..... 265 mV/100 kΩ	
Output level/impedance	
MD, TAPE ..... 520 mV/200 Ω	

## [Digital block]

Sampling frequency	
..... 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz	
Supreme EX (CD, D-IN1, D-IN2)	
Frequency response ..... 1 Hz - 40 kHz	
Input level/impedance/wave length	
Optical ..... - 15 dBm - - 24 dBm, 660 nm ± 30 nm	
Coaxial ..... 0.5 Vp-p/75 Ω	
Output level/impedance/wave length	
Optical ..... - 21 dBm - - 24 dBm, 660 nm ± 30 nm	
Coaxial ..... 0.5 Vp-p/75 Ω	

## [CD Block]

Laser ..... Semiconductor laser	
D/A conversion ..... 1 bit	
Oversampling ..... 8 fs (352.8 kHz)	
Frequency response ..... 20 Hz - 20 kHz	
Signal to noise ratio ..... More than 110 dB	
Dynamic range ..... More than 100 dB	
Channel separation ..... More than 102 dB (at 1 kHz)	

## [Tuner block]

### FM tuner

Reception frequency range ..... 87.5 MHz - 108 MHz	
Sensitivity	
MONO ..... 1.3 μV/13.2 dBf (40 kHz dev, S/N 26 dB)	
STEREO ..... 45 μV/42.1 dBf (40 + 6 kHz dev, S/N 46 dB)	
Total harmonic distortion	
MONO (1 kHz, 40 kHz dev) ..... 0.2 % (65.2 dBf input)	
STEREO (1 kHz, 40 + 6 kHz dev) ..... 0.8 % (65.2 dBf input)	
Signal to noise ratio (DIN-weighted)	
MONO ..... 65 dB (65 dBf input)	
STEREO ..... 60 dB (65 dBf input)	
Stereo separation (1 kHz) ..... 36 dB	
Selectivity (DIN ± 300 kHz) ..... 64 dB	
Frequency response (30 Hz - 15 kHz) ..... + 0.5 dB -- 3.0 dB	

### AM tuner

Reception frequency range ..... 531 kHz - 1,602 kHz	
Sensitivity (30% mod, S/N 20 dB) ..... 16 μV/(600 μV/m)	
Signal to noise ratio (30 % mod, 400 Hz)	
..... 50 dB (60 dBμV EMF input)	

## [General]

Power consumption ..... 120 W	
Standby power consumption ..... Less than 0.25 W	
Dimensions ..... Width: 280 mm (11")	
..... Height: 151 mm (5-15/16")	
..... Depth: 407 mm (16")	
Weight (net) ..... 9.6 kg (21.2 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 \_\_\_\_\_