

KENWOOD

COMPACT HI-FI COMPONENT SYSTEM

K-511USB RD-K511USB

INSTRUCTION MANUAL

Kenwood Corporation

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

Manufacturer:

Kenwood Corporation

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EU Representative's:

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What are available with this system



Play

Playback of a large variety of media including the SD card and digital audio player as well as CD.



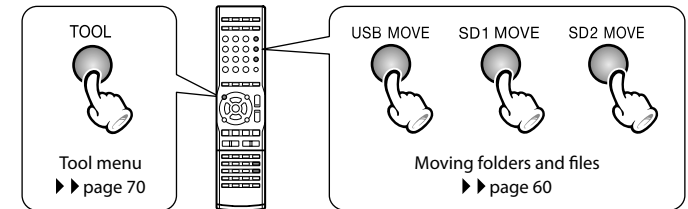
Record

Recording of various sources including CD, radio broadcasting and externally connected source to the SD card or digital audio player without using a PC.



Edit

Editing of folders and files in SD and USB, including move, delete and title input operations. Pressing the [TOOL] button opens the menu of editing items for each audio source.



Auto CD title acquisition



The title information including the album name, track names and artist name can be obtained from the AMG database for display during playback or addition as the tag information to the recorded files.

▶▶ page 24

CD ▶ SD1



One-Touch Edit recording

Single press of a button can start recording of CD audio in SD card or USB memory at either the 4x or 1x speed.

▶▶ page 52



1 2 3 4 5

5-program timer

The weekly timer is convenient for recording or listening to the radio program you are fond of.

▶▶ page 78

SETUP




[SETUP] button for setting the system according to your lifestyle

The system setup function, the recording settings including the recording speed and level, and the sound setup for reproducing desired audio in each sound range allow you to arrange the system as you like.

▶▶ pages 72, 84, 92

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

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Read before use

Playing music tracks

Record

Edit

Advanced operations

Recording setup

Creating the desired sound setting

Maintenance

Before applying power





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

Units are designed for operation as follows.

Australia AC 240 V only
Europe AC 230 V only

Safety precautions

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

| | |
|--|--|
|  | <p>CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN</p>  |
| <p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p> | |
|  | <p>THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.</p> |
|  | <p>THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.</p> |

The marking of products using lasers

**CLASS 1
LASER PRODUCT**

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

Location: Back panel

IMPORTANT SAFETY INSTRUCTIONS

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

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

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

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

Follow Instructions – All operating and use instructions should be followed.

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

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

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

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

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



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

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

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

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.

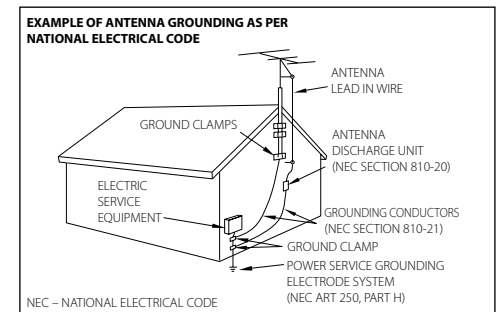
15. Safety Check – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

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.



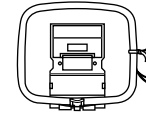
Notes:

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

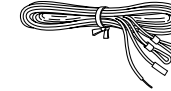
Accessories

Accessories

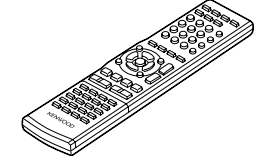
AM loop antenna
(x 1)



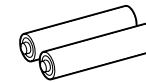
FM indoor antenna
(x 1)



Remote control unit
(RC-F0714E x 1)

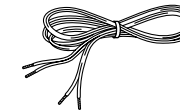


Remote control batteries
(LR03(AAA) x 2)



The batteries are inserted
in the packaging material.

Speaker cords
(2 m x 2)



K-511USB only:
Packaged with the speakers.

AMG database CD
(x 1)



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



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



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

Pb

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

Apple and iPod are trademarks of Apple Inc., registered in the U.S. and other countries.

Supreme is a registered trademark of Kenwood Corporation.

The SDHC logo is a trademark.

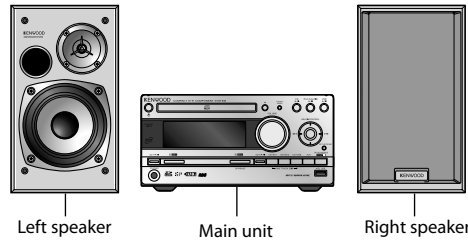
Microsoft, Windows and Windows Media are registered trademarks or trademarks of Microsoft Corporation in the United States and other countries.

Other system names and product names are generally trademarks or registered trademarks of their developers. However, note that the text in this manual does not use the TM and ® markings to them.

Installation

Installation precautions

- Always install the system on a level, stable surface. When installing on a stand or tabletop, be sure to confirm the strength of the stand.
- 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.



The speakers is not provided with RD-K511USB.

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.
- Do not install the system on the back, on the side or upside down.
- Do not place a cloth on the system or place it on a carpet or cushion.
- Do not use the system in a poorly ventilated place.
- Leave the spaces specified below around the cabinets of the main unit.
Top: 50 cm or more, Side: 10 cm or more, Rear: 10 cm or more

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

Note that the power supply to the system is not shut down completely by simply setting the power button to OFF. To shut down the power supply completely, it is required to unplug the power cord.

To fully enjoy the acoustic effects

The audio is variable depending on how the speakers are installed. Ensure the following points to enjoy music with higher quality.

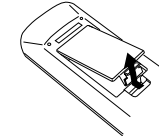
- Make the environments around the left and right speakers as equal as possible. Install the left and right speakers at a distance of a wall, and minimize the sound reverberations by drawing thick curtains on the windows.
- Place the left and right speakers at a large distance between each other.
- Place the left and right speakers on the same height as the ears of the listener.

Preparation of remote control

Preparing the remote control unit

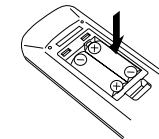
Loading batteries

- 1 Remove the battery cover.

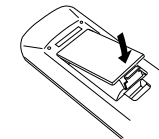


- 2 Insert the provided AAA-size batteries.

- Insert batteries with correct polarity.



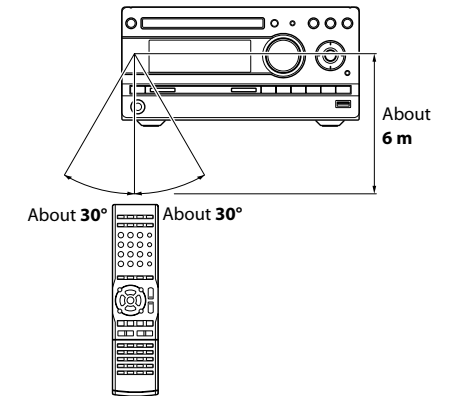
- 3 Close the battery cover.



- ✓ The provided batteries are intended for use in operation check and their service life may be shorter than usual.
- When replacing batteries, be always sure to replace both of the two batteries together.

Operation

Plug the power cord of the system to a power outlet and press [ON] on the remote control unit to turn the system ON. After the system is switched ON, press the desired operation button. Use the remote control unit by pointing it to the remote sensor on the main unit.



- ✓ 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.). Change the system installation to prevent malfunction.

CAUTION

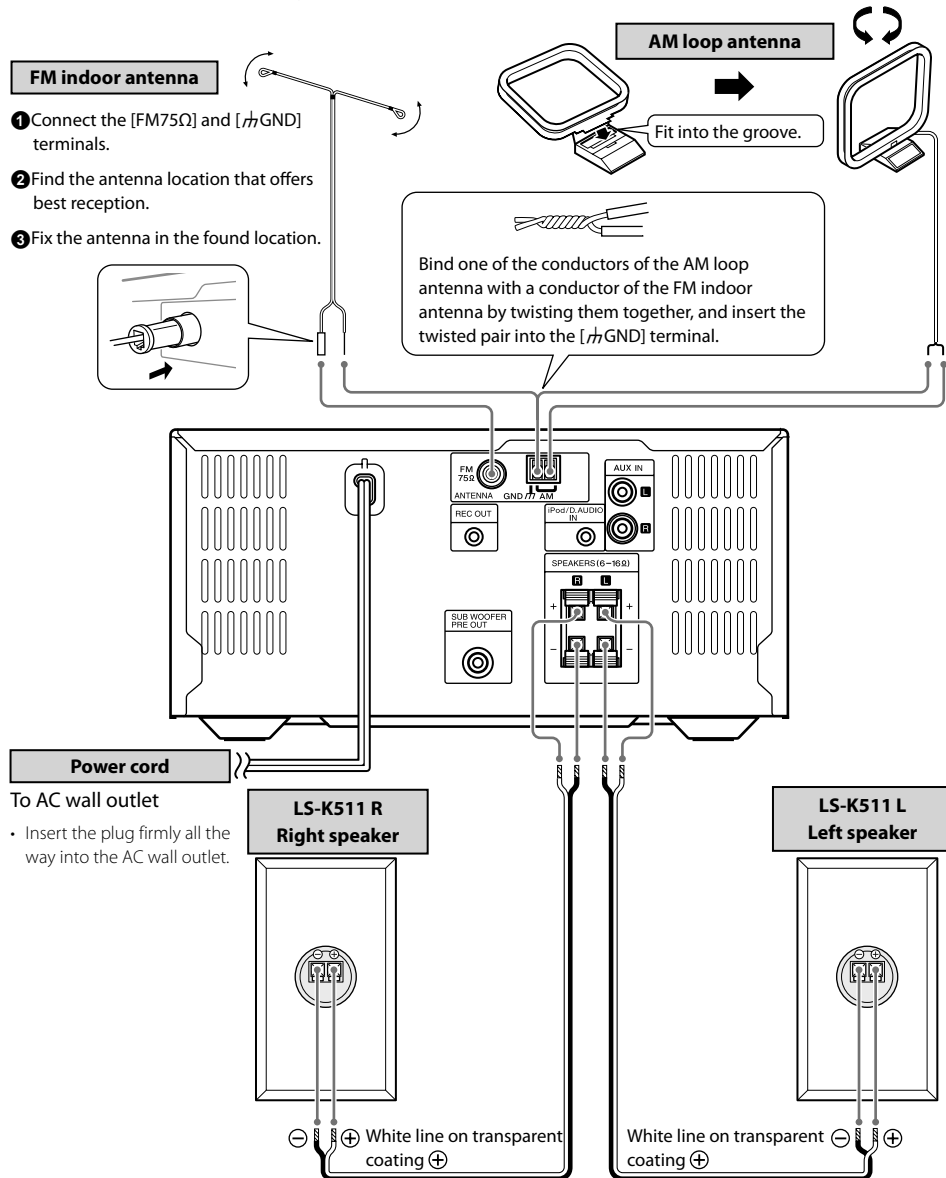
- Do not leave the battery near fire or under direct sunlight. A fire, explosion or excessive heat generation may result.

Connections

Basic connections

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 switch the system OFF and unplug the power cord from the power outlet in advance.



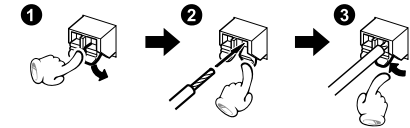
Malfunction of the system

If the system does not function properly or the display shows erroneous information even when the connections are made correctly, reset the system. (page 110)

Connecting the 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.

- **Connecting a antenna cord**
Connect the AM antenna code across the [AM] and [rGND] terminals as shown on the right.



Connecting the FM indoor antenna

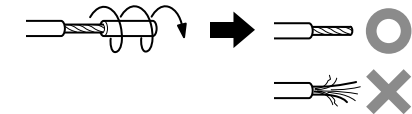
The provided FM antenna is a simplified one for indoor use. To receive FM stations stably, it is recommended to use an outdoor antenna (commercially available). Remove the simplified antenna before connecting the outdoor antenna.

Caution for outdoor antenna installation

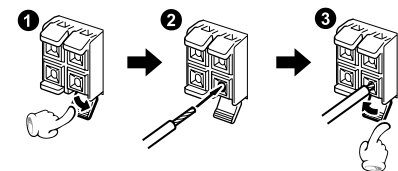
Since antenna installation necessitates skill and experience, always consult your dealer before installation. The antenna should be placed at a distance from the power distribution wires. Otherwise, an electric shock accident may occur if the antenna falls down.

Connecting the speakers

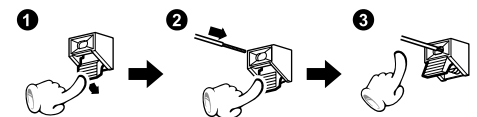
- **Treatment of the speaker cord extremities**
Twist and remove the vinyl coating on the extremity of each speaker cord.



- **Connecting a speaker cord to the main unit**



- **Connecting the speaker cords to the speakers**



- ✓ • Be careful not to short-circuit the + and – conductors of the speaker cord (be sure to avoid contact between the + and – conductors). If the speaker cord is connected by inverting the + and – polarity, the reproduced audio will be unnatural with unclear positioning of musical instruments.

Connecting associated products (commercially available)

- 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.

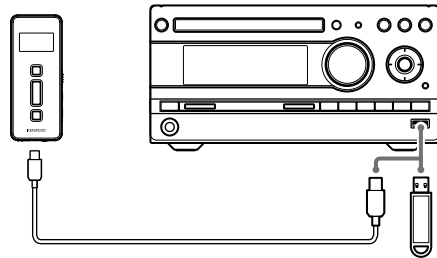
Caution for connection

Set the main unit in the standby mode before connecting any associated product to it and do not set the power button to ON until all connections are completed. Before unplugging a connected cord or cable, be sure to set the power button to OFF and unplug the power cord from the power outlet in advance.

USB

Connect a USB flash memory or a digital audio player with USB mass storage class compatibility to the [USB] terminal on the front of the main unit.

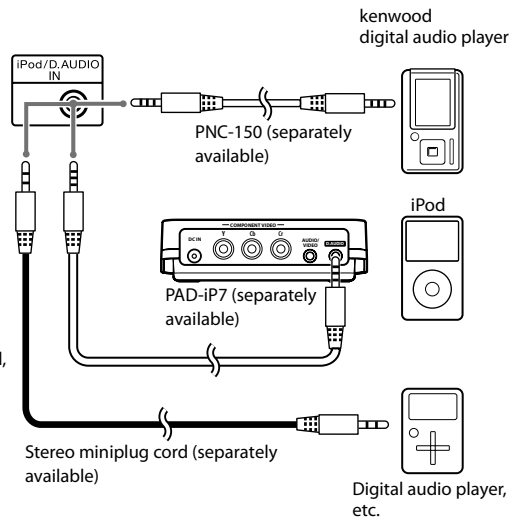
- With certain models, it takes a certain period before the connection is recognized.
- Certain models display the USB connection mode selection menu. In this case, select the "Storage" mode.



iPod/D.AUDIO IN

Connect a digital audio player or an iPod to the [iPod/D.AUDIO IN] terminal on the rear of the main unit.

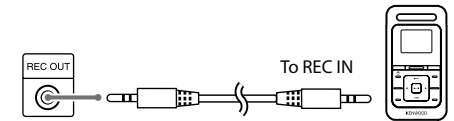
- When a kenwood digital audio player with digital audio link compatibility is connected using the PNC-150 dedicated cable (separately available), the player can be controlled from this system or its remote control unit. The iPod can be controlled when it is connected using the PAD-iP7 dedicated adapter (separately available). (page 40)
- A digital audio player other than above can be connected using a stereo miniplug cable (commercially available).
- When not using the digital audio player or the iPod, unplug the miniplug cable from the main unit.



REC OUT

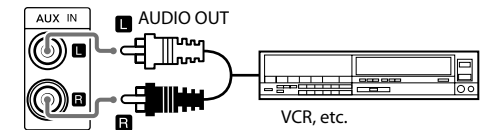
Connect a kenwood digital audio player with direct encoding function to the [REC OUT] terminal on the rear of the main unit.

- The [REC OUT] terminal output the analog audio signals.



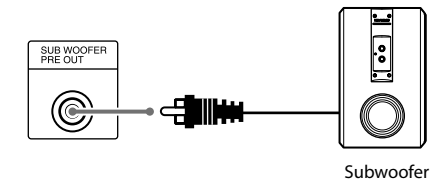
AUX IN

Connect the audio output of the VCR, etc. to the [AUX IN] terminals on the rear of the main unit.



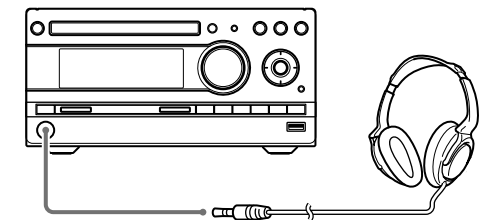
SUB WOOFER PRE OUT

Connect a subwoofer (SW-40HT (separately available), etc.) to the [SUB WOOFER PRE OUT] terminal on the rear of the main unit.



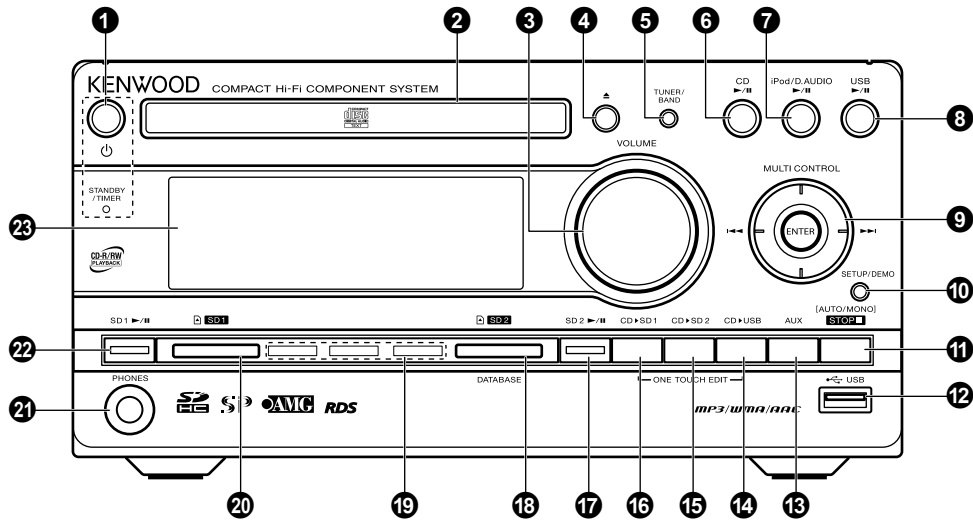
PHONES

Connect headphones with a stereo miniplug to the [PHONES] jack on the front of the main unit.



Names and functions of parts

Main unit



- 1** **⏻ (page 23)**
Press to switch the power of the system ON/OFF (standby mode).
STANDBY/TIMER indicator
Red lighting: Ordinary standby mode
Orange lighting: Timer standby mode
- 2** **CD tray (page 23)**
- 3** **VOLUME (page 22)**
- 4** **⏮ (page 23)**
Press to open or close the CD tray.
- 5** **TUNER (page 44)**
Press to switch the radio band between FM/AM.
- 6** **CD▶/|| (page 28)**
Press to start/pause CD playback.
- 7** **iPod/D.AUDIO▶/|| (page 40)**
Press to start/pause iPod/D.AUDIO playback.
- 8** **USB▶/|| (page 36)**
Press to start/pause USB playback.
- 9** **MULTI CONTROL**
Press to select a track, file or radio station.
Press to fast forward or fast reverse it during playback.
Press to select a menu item.
- 10** **ENTER**
Press to enter the selected item.
- 11** **STOP■**
Press to stop playback or recording.
When the TUNER input is selected, press to switch the tuning mode between auto and manual.
Press during a setup to stop it in the middle.
- 12** **⏪-USB terminal (page 14)**
- 13** **AUX (page 42)**
Press to select the AUX source.
- 14** **CD▶USB (page 52)**
Press to start One-Touch Edit recording of CD into USB.
- 15** **CD▶SD2 (page 52)**
Press to start One-Touch Edit recording of CD into SD2.
- 16** **CD▶SD1 (page 52)**
Press to start One-Touch Edit recording of CD into SD1.
- 17** **SD2▶/|| (page 32)**
Press to start/pause SD2 playback.
- 18** **SD2 slot (page 23)**
Insert an SD card. This slot is used as the AMG database slot during CD playback.
- 19** **SD card illumination**
The illumination varies as SD playback/record/move operation advances.
During playback/pause: Blue (Blinks during pause.)
During recording/record-pause: Red (Blinks during record-pause.)
During move: Moving red
- 20** **SD1 slot (page 23)**
Insert an SD card.
- 21** **PHONES terminal (page 15)**
- 22** **SD1▶/|| (page 32)**
Press to start/pause SD1 playback.
- 23** **Display (page 18)**

One-touch operation function

The system incorporates the convenient one-touch operation function. When the system is in standby mode, pressing any of [TUNER], [CD▶/||], [iPod/D.AUDIO▶/||], [USB▶/||], [AUX], [SD1▶/||] and [SD2▶/||] turns the system ON. Playback also starts if a button related to CD, SD or USB is pressed.

Demonstration function

This system incorporates a demonstration function (display only). In the demonstration mode, the lighting operation indicators vary in sequence but this variation is accompanied with no change in played audio.

- **To cancel:**
Press [SETUP] on the main unit in the middle of demonstration.
- **To start:**
When the system is ON, press and hold the [SETUP] button on the main unit for more than 2 seconds.
- The demonstration is switched on automatically when a power failure occurs or the power cord is unplugged or plugged in again while the system power is ON.

Standby mode

When the [STANDBY/TIMER] indicator is lit, a small amount of power is supplied to the system to operate the microcomputer. This status is referred to as the standby mode. In this state, the system can be switched OFF from the remote control unit.

Unified naming on the main unit and remote control unit

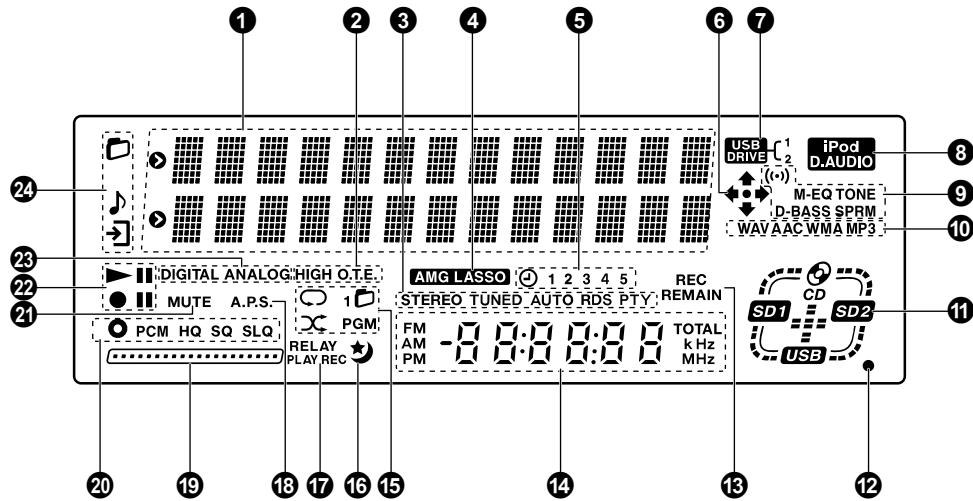
In the text describing operations in this manual, the following controls on the main unit and the remote control unit are expressed as shown below.

- When operation in all of the 4 directions is required: [MULTI CONTROL]
- When only the up-down operations are required: [MULTI CONTROL ▲/▼]
- When only the left-right operations are required: [MULTI CONTROL ◀/▶]

[STOP■]

Read before use

Display



- 1 Shows the information in alphanumeric characters.
▶ indicates the information being selected.
- 2 **O.T.E. (page 52)**
Lights during One-Touch Edit recording.
HIGH (page 87)
Lights during One-Touch Edit recording at the high speed.
- 3 **STEREO (page 45)**
Lights when stereo broadcasting is tuned.
TUNED (page 45)
Lights when a radio station is turned.
AUTO (page 45)
Lights during auto tuning. Does not light in manual tuning mode.
RDS (page 48)
Lights when an RDS station is tuned.
PTY (page 48)
Lights when PTY is selected.
- 4 **AMG LASSO (page 24)**
Lights when an SD card in which the AMG database is copied is inserted into the SD2 slot.
- 5 Lights when the program timer is set.

- 6 The arrows light to indicate the directions controllable with [MULTI CONTROL] for music selection, setup or editing.
- 7 Lights when the connected USB device has two drives, such as the internal memory and SD card drives, for example when kenwood MGR-A7 is connected. The number indicates the drive being selected on the USB device.
- 8 Lights when an iPod or kenwood digital audio player is connected. (page 40)
- 9 Lights when a SOUND SETUP item is selected. (page 92-)
- 10 Lights to indicate the type of the audio file being played.
- 11 Lights or blinks according to the connection and recording status of each medium.
 - CD : Lights when a disc is inserted.
 - SD1 : Lights when an SD card is inserted in the SD1 slot.
 - SD2 : Lights when an SD card is inserted in the SD2 slot.
 - USB : Lights when a USB device is connected.

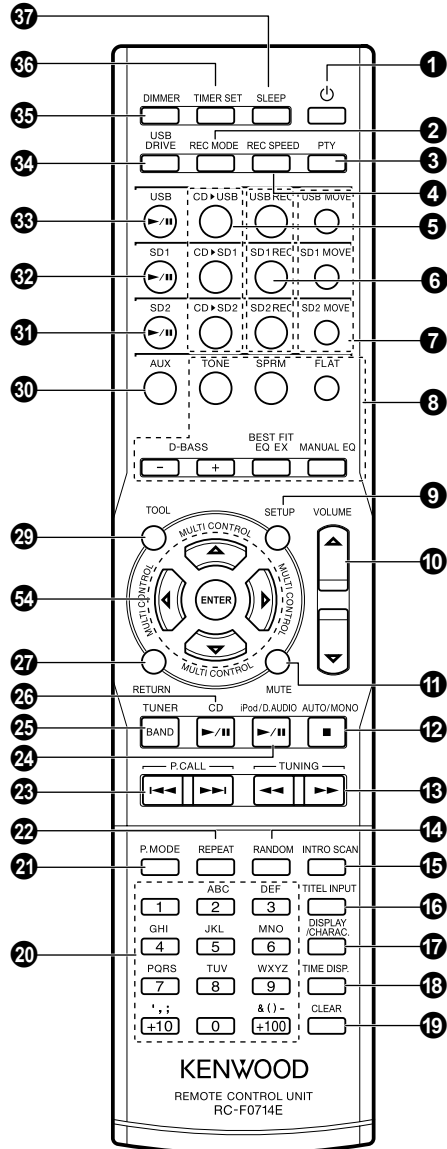
- 12 Lights when HR SOUND is set. (page 99)
- 13 **REC REMAIN (page 66)**
Lights when the remaining recording time is displayed.
- 14 Shows the time of the day, time information or frequency.
FM (page 44)
Lights in FM tuning mode.
AM (page 44)
Lights in AM tuning mode.
TOTAL (page 82)
Lights to indicate the elapse time and remaining time of the disc during CD playback.
kHz
Shows the AM tuning frequency.
MHz
Shows the FM tuning frequency.
- 15 Lights when a playback mode is set.
 - ⏮ : Repeat: Repeat play mode (1 indicates single repeat.)
 - ⏪ : Random play mode
 - 📁 : Folder play mode
 - PGM : Program play mode
- 16 Lights when the sleep timer i.e. set.
- 17 **RELAY PLAY:**Lights when relay play is set. (page 35)
RELAY REC: Lights when relay recording is set. (page 91)
- 18 **A.P.S. (page 76)**
Lights when Auto Power Save is set.
- 19 Shows the progress of recording.
- 20 Shows the SD or USB recording mode.
 - : Lights when another source is played during recording. (page 58)**PCM HQ SQ SLQ:** Indicate the recording mode. (page 86)
- 21 **MUTE (page 22)**
Blinks when muting is activated.
- 22 ▶ : Lights during playback.
 - ⏮ : Lights during pause.
 - : Lights during recording.
- 23 Indicates the recording signal. (page 88)
- 24 📁 : Lights when a folder is selected.
 - 🎵 : Lights when a file is selected.
 - ➡ : Lights during setup or tool editing operation.

✓ • The display illustrations shown in this manual may differ from actual display.

Resume function

When the source of playback is switched from CD-ROM, SD or USB to another input source, pressing [CD▶/||], [SD▶/||] or [USB▶/||] results the playback of the previous source from the point that has been played before the source switching.

Remote Control Unit

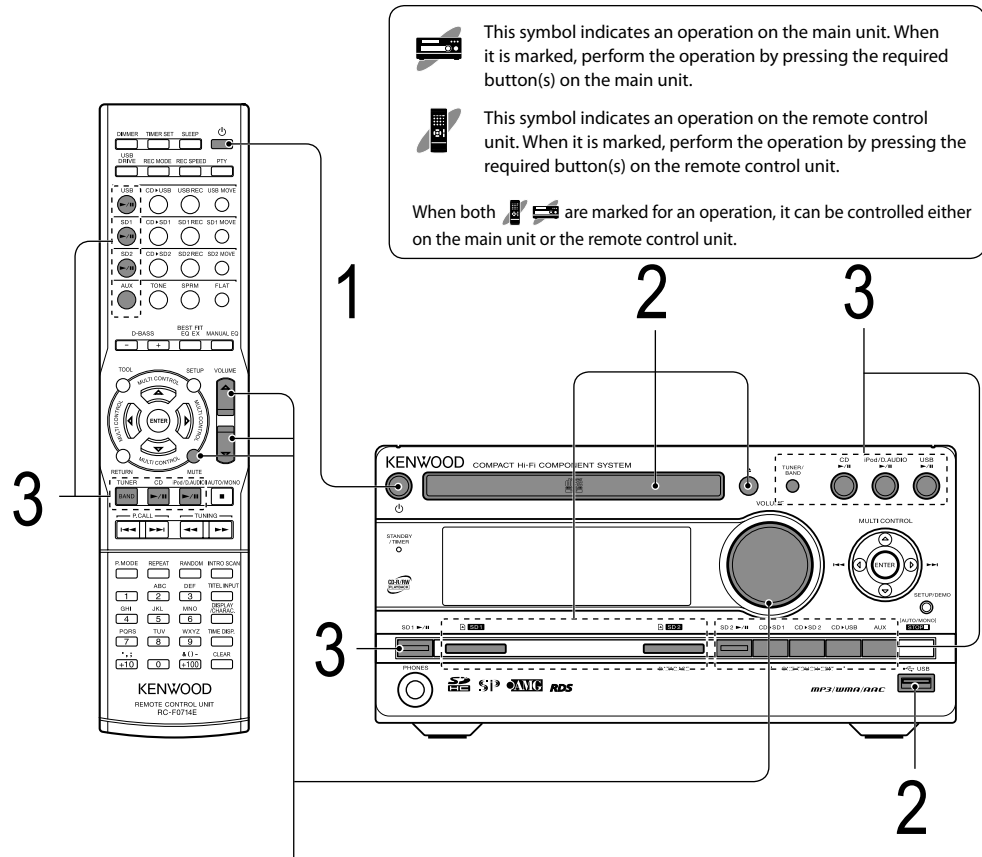


- 1** (page 23)
Press to switch the power of the system ON/OFF (standby mode).
- 2** **REC MODE** (page 86)
Press to set the recording mode used in recording.
- 3** **PTY** (page 48)
Performs PTY search.
- 4** **REC SPEED** (page 87)
Press to set the speed of One-Touch Edit recording.
- 5** Press to start O.T.E. recording of a CD to SD1/SD2/USB.
- 6** Press to start recording in SD1/SD2/USB.
- 7** Press to move a file or folder between SD1/SD2/USB.
SD1 MOVE : Moves into SD1.
SD2 MOVE : Moves into SD2.
USB MOVE : Moves into USB.
- 8** Press to set **TONE, SPRM, FLAT, D-BASS +/-, BEST FIT EQ EX** and **MANUAL EQ**. (page 92-)
- 9** **SETUP** (pages 72, 84, 92)
Press to set up the system of this unit.
- 10** **VOLUME** ▲/▼ (page 22)
Press to adjust the listening volume. Pressing A increases the volume and pressing B decreases the volume.
- 11** **MUTE** (page 22)
- 12** **STOP** ■
- 13** **TUNING** ◀◀/▶▶
Press to fast forward or fast reverse music. When the tuner source is selected, press to select a broadcasting station. (page 45)
- 14** **RANDOM** (pages 29, 33, 37)
Press to start random playback.
- 15** **INTRO SCAN** (page 35)
Press to play the first 10 seconds of every file in SD.
- 16** **TITLE INPUT** (page 62)
Press to rename music files or folders.

- 17** **DISPLAY/CHARAC.**
Press to switch the information shown on the display. (page 82)
Press during title input to switch the character group. (page 64)
- 18** **TIME DISP.** (page 82)
Press to switch the time information on the display.
- 19** **CLEAR**
Press to clear a program or preset radio stations. Press during title input to clear a character. (page 64)
- 20** **Numeric buttons**
Press to select music or broadcasting station. Press during title input to input desired characters. (page 64)
- 21** **P.MODE** (page 30, 34, 38)
Press to switch the playback mode.
- 22** **REPEAT** (pages 29, 33, 37)
Press to start repeat playback.
- 23** **P.CALLI** ◀◀/▶▶
Press to skip an audio file/track. When the tuner source is selected, press to select a broadcasting station. (page 44)
- 24** **iPod/D.AUDIO** ▶/|| (page 40)
- 25** **TUNER** (page 44)
- 26** **CD** ▶/|| (page 28)
- 27** **RETURN** (pages 70, 72, 84, 92)
Press during menu selection to return to the previous operation.
- 28** **MULTI CONTROL** ▲/▼/◀▶
Press to select music or music file. Press to select an item.
ENTER
Press to enter the selected item.
- 29** **TOOL** (page 70)
Press to start editing operations.
- 30** **AUX** (page 42)
- 31** **SD2** ▶/|| (page 32)
- 32** **SD1** ▶/|| (page 32)
- 33** **USB** ▶/|| (page 36)
- 34** **USB DRIVE** (page 37)
When the connected USB device has two drives, such as the internal memory and SD card drives, for example when kenwood MGR-A7 is connected, press to select the drive to be used.
- 35** **DIMMER** (page 75)
Press to adjust the display brightness.
- 36** **TIMER SET** (page 78)
Press to reserve recording of radio broadcasting or playback of music at the specified time of the day on the specified day(s) of the week.
- 37** **SLEEP** (page 74)
Press to set the sleep timer.

- ✓ • The buttons having the same names as the buttons on the main unit function in the same way as the main unit buttons with the same times.

Basic Operation



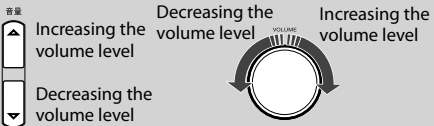
This symbol indicates an operation on the main unit. When it is marked, perform the operation by pressing the required button(s) on the main unit.

This symbol indicates an operation on the remote control unit. When it is marked, perform the operation by pressing the required button(s) on the remote control unit.

When both are marked for an operation, it can be controlled either on the main unit or the remote control unit.

Adjusting the volume

Adjust using [VOLUME]



Adjust in the range from 0 to 40 (max.).

- Turning the knob quickly (on the main unit) or holding a button depressed (on the remote control unit) accelerates the volume variation speed.

Muting the audio temporarily

Press [MUTE].
"MUTE" blinks on the display.

- To cancel muting
Press [MUTE] again (this resumes the original volume) or adjust the volume.

1 Turn the system ON (OFF).

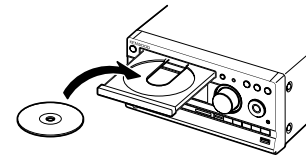
Press [POWER].

- Pressing the play/pause button of the desired audio input source also turns the system ON. (page 17, "One-touch operation function")
- Pressing [POWER] while the system is ON switches it OFF (standby mode).

2 Set the source to be played.

How to load a CD

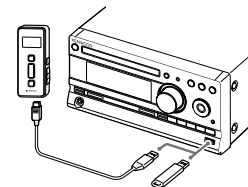
- 1 Press [TRAY] on the main unit to open the tray.
- 2 Place a disc with the label side facing up.



- 3 Press [TRAY] on the main unit to close the tray.
"CD" is displayed.

How to connect a USB device

Hold the device in the correct orientation and insert the connector all the way. "USB" is displayed.

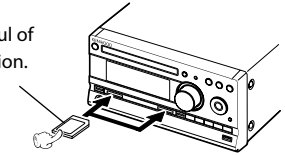


- To disconnect the USB device:
After stopping, set the system to the standby mode and pull out the USB device.

How to load an SD card

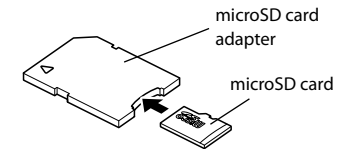
Insert the card completely into the SD1 or SD2 slot. "SD1" or "SD2" is displayed.

Be careful of orientation.



- Insert the SD card so that the label side faces up and the side with a cut comes on the right.
- To remove the SD card:
After stopping, set the system to the standby mode and push the SD card. When it pops out, grasp it and pull out.

- To use a mini SD or micro SD card:



- Attach the card to a special adapter (commercially available) and insert it. The adapter is inserted in the same orientation as the SD card.

3 Start playback.

Press the play/pause button of the desired audio source.

[CD ▶/||], [USB ▶/||], [SD1 ▶/||], [SD2 ▶/||], [TUNER], [iPod/D.AUDIO], [AUX]

- Note on audio source switching
Since this system is compatible with various audio sources (CD, SD card, USB device, etc.), the input selection is not switched by simply setting the audio source in the system.

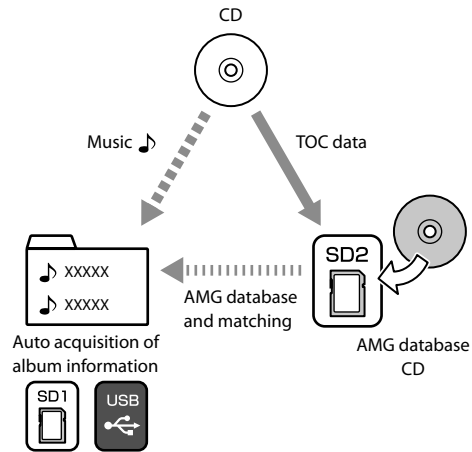
In this manual, the operation of switching the input selector is expressed as "audio source switching". Whenever this instruction is given, press the play button for the desired audio source. The switching operation should sometimes be started from stop mode.

Acquiring the CD title information

AMG database

When a CD is played, the AMG Database can be used to search the title information of the CD based on its TOC (Table Of Contents) information and to acquire information including the album name, track names and artist name.

When the CD is recorded into SD or USB, the title information is added to the recorded files so that it is not necessary to input the information written on the album manually.



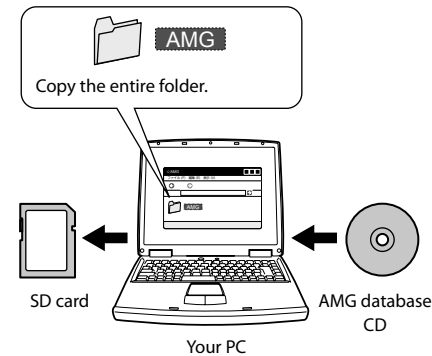
- Even when the played CD is a CD-TEXT disc (a CD containing recording of character information on the titles and artist), the information acquired from the AMG database is displayed in priority.
- The AMG database is updated periodically. The updating allows the users to acquire the title information of even latest albums.

How to use the AMG database

The title information can be acquired automatically when the CD source is selected and a CD is loaded.

1 Copy the provided AMG Database CD into an SD card.

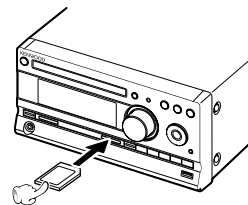
Copy using a PC.
(The copy takes about 10 minutes.)



For how to copy the data, refer to the manuals provided with your PC.

- For accommodating the database, it is recommended to use an SD or SDHC card with a capacity of 2 GB or more (transfer rate Class 4 or higher).

2 Insert the SD card containing the copy in the SD2 slot.



"SD2" and "AMG LASSO" are displayed.

- Always insert the SD card containing a copy of the AMG database in the SD2 slot.

3 Load a CD.

Press [▲] to open the tray and place a CD.

"CD" is displayed.

4 Start playback.

Press [CD▶/III].

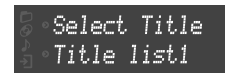


When the CD starts to be played, the AMG database in the SD card is searched using the TOC information of the CD and, if the applicable information is found, it is shown on the display. If the AMG database contains more than one items of applicable information, you can select one of them and use it with the system.



5 Select the candidate information.

Press [MULTI CONTROL ▲/▼].



If "no available" is selected, the information of the AMG database will not be displayed.

6 Enter the selected candidate.

Press [ENTER].

- ✓ With certain CDs, the title information of a CD having similar TOC information may be acquired.
- Do not attempt to record anything in the SD card containing a copy of the AMG database. Otherwise, the AMG database search will take a longer period.
- The non-displayable character is displayed as "**".
- When there is only one candidate, the candidate is selected and entered automatically.

Switching the displayed information

The acquired title information is displayed.

1 Switch the displayed information.

Press [DISPLAY/CHARAC.].

Each press switches the displayed information in the following sequence.

Stop mode

Disc title → Artist → Genre → Day of week/time

Play mode

Disc title → Track title →
Artist → Genre → Day of week/time

Folders and music files

With this system, the music recorded in the CD-ROM, SD card, USB device or digital audio player is referred to as "audio file(s)" or "file(s)".

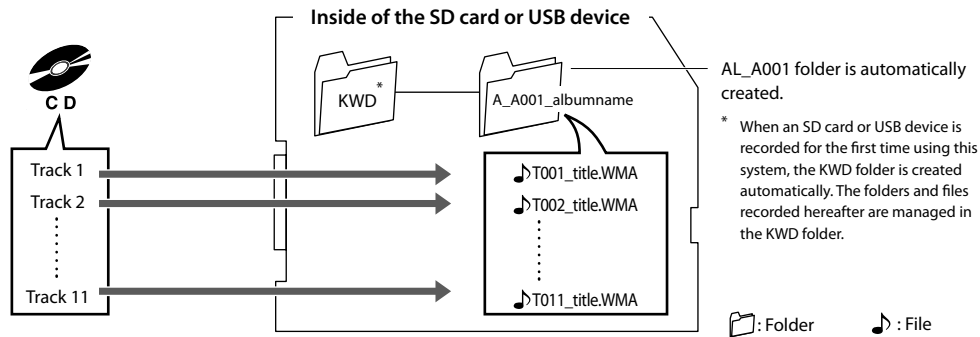
When an SD card or USB card is recorded using this system:

The files recorded into an SD card or USB device using this system are grouped in folders, and management numbers are automatically given to the created folders and files.

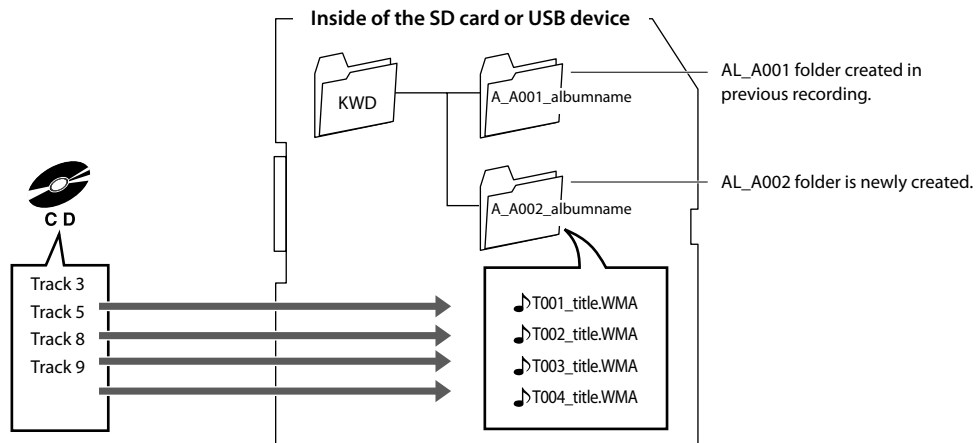
- Management number given automatically to a folder: A_A001...A_A999...A_Z999
- Management number given automatically to a file: T001.WMA, T002.WMA.....
- When a folder is recorded after the title information has been acquired from the AMG database, the album name is attached automatically after the management number of the file, and the filename is attached automatically after the management number of each file.

This system uses the WMA and WAV formats for recording audio into the SD card and USB device.

When a CD is recorded:



When the desired tracks of another CD are recorded after the above:



How to select a folder and/or file

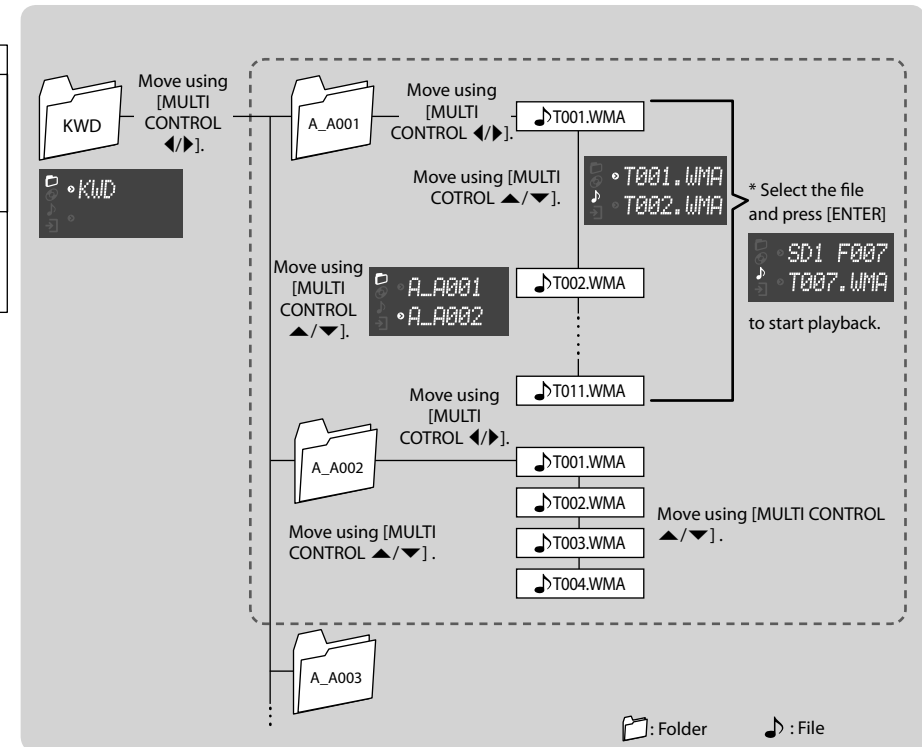
The folder and file can be selected as follows.

Use [MULTI CONTROL] for selection, then press [ENTER] to enter the selection.

Numbers of folders and files that can be accommodated in the KWD folder

Folder.....200
File..... 1000

To check the numbers of available folders and files, see "Checking the remaining SD/USB recording time". (page 68)



* FXXX indicates the order of each file. The folders and files are numbered automatically according to the positions in their orders. Pressing the numeric buttons of the remote control unit makes it possible to start playback from the selected file. (pages 33, 37)

SD1 F007
T007.WMA

Examples) F007:[7]
F102:[+100],[2]

Playing a CD or audio file disc

A CD or a CD-ROM/CD-R/CD-RW containing audio files (WMA/MP3/AAC) can be played as described below.

- For the playable files, see "Playable audio files". (page 102)

Playback

1 Load a CD.

Press [▲] to open the tray and place a CD.

"CD" is displayed.

2 Start playback.

Press [CD▶/||].



When a CD is played:

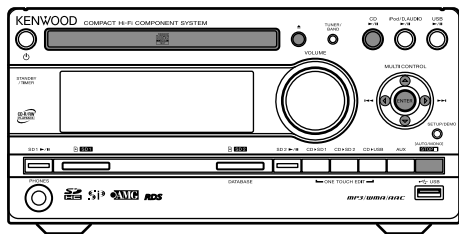
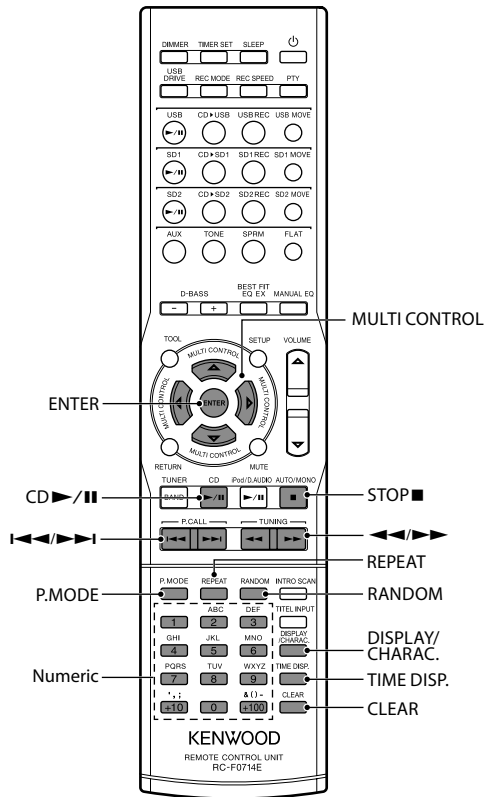
The CD is played from the first track.
When a disc containing audio files is played, the folders and files are searched and playback is started with the file with the smallest file number.

- For the sequence of playback in case multiple folders and/or files are present, see page 103.
- To acquire the CD title information automatically: Insert the SD card containing a copy of the AMG database in the SD2 slot. See page 24 for details.

- ✓ With a CD-TEXT compatible disc, character information including the track title and album title is displayed.
- When the AMG database is used, the information acquired from it is given the priority.
- The audio is interrupted if [REC INPUT] is switched during playback. (page 88)

Button operations during playback/stop

| To | Operation |
|---|---|
| Switch the display information | Press [DISPLAY/CHARAC.] during playback or stop. Each press switches the displayed information. (page 82) |
| Switch the time display information | Press [TIME DISP.]. Each press switches the displayed information. (page 82) |
| Stop | Press [STOP■] during playback. |
| Pause | Press [CD▶/] during playback. Press again to resume playback. |
| Select a track | Press the numeric button(s). File number selection methods : 7th file → Press [7]. 12th file → Press [+10], then [2]. |
| Selecting a folder (audio file disc) | Press [MULTI CONTROL ▲/▼]. |
| Fast forward/fast reverse | Press [◀◀]/[▶▶] during playback. Press and hold [MULTI CONTROL ◀/▶] during playback. |
| Skip a track | Press [CD▶▶1]. Press [MULTI CONTROL ▶]. |
| Return to previous track | Press [I◀◀] successively twice or more. Press [MULTI CONTROL ◀] successively twice or more. |
| Return to the beginning of current track | Press [I◀◀] once. Press [MULTI CONTROL ◀1] once. |
| Start random playback (Playing music in a random order) | Press [RANDOM]. Each press switches the selection. Random playback ON (lit) / Random playback OFF (Not lit) • When [REPEAT] is pressed in the middle of random playback, random playback in a different order of audio files will start after the current random playback has completed. • It is not possible to skip to already played music during random playback. |
| Start repeat playback (Playing music repeatedly) | Press [REPEAT]. Each press switches the selection. Repeat playback of single music file/track (1 lit) / Repeat playback of all music files/tracks (lit) / Repeat playback canceled (Not lit) |



Folder play mode

Audio file disc only

The system can be set to a mode for playback per folder. In this mode, the system plays only the selected folder and stops after all of its files have been played.

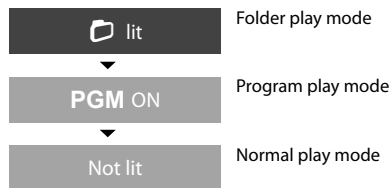
- Select the CD source and enter stop mode.

1 Select "CD" (folder play mode).



Press [P.MODE].

Each press switches the selection.



2 Select the folder to be played.



Press [MULTI CONTROL ▲/▼].

3 Start playback.



Press [CD ►/|||].

- To cancel the folder play mode:
Stop playback and press [P.MODE] to select the normal play mode.

Program playback

Music in a CD or audio file disc can be played in the order programmed by the user.

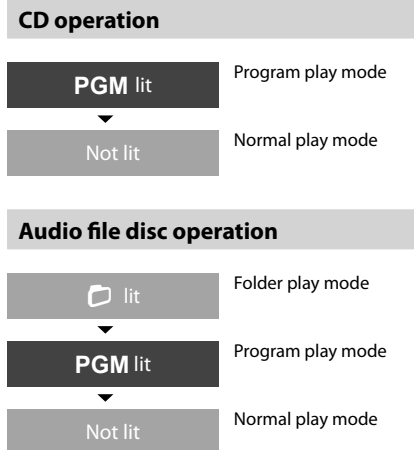
- Select the CD source and enter stop mode.

1 Select "PGM" (program play mode).



Press [P.MODE].

Each press switches the selection.



2 Select a file.

CD operation



Press [MULTI CONTROL ▲/▼] or the numeric button(s) to select, then press [ENTER].



Use [MULTI CONTROL] to select, then press [ENTER].



When the 7th file is selected as the first file of the program:

Audio file disc operation



Press [MULTI CONTROL] or the numeric button(s) to select the folder, then press [ENTER].

Press [MULTI CONTROL] or the numeric button(s) to select the file, then press [ENTER].



Use [MULTI CONTROL] to select, then press [ENTER].

Use [MULTI CONTROL] to select, then press [ENTER].



When the 4th file in folder "005" (T002.WMA) is selected as the first track of the program:

If you committed a mistake in selection, press [CLEAR] on the remote control unit before pressing [ENTER] and restart selection.

- Up to 32 files can be programmed.

3 End the programming.



Press [STOP].

4 Start playback.

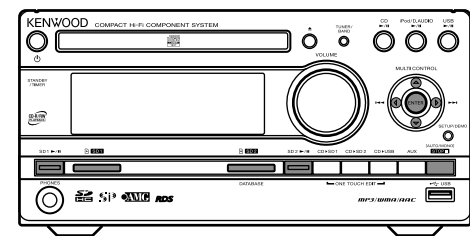
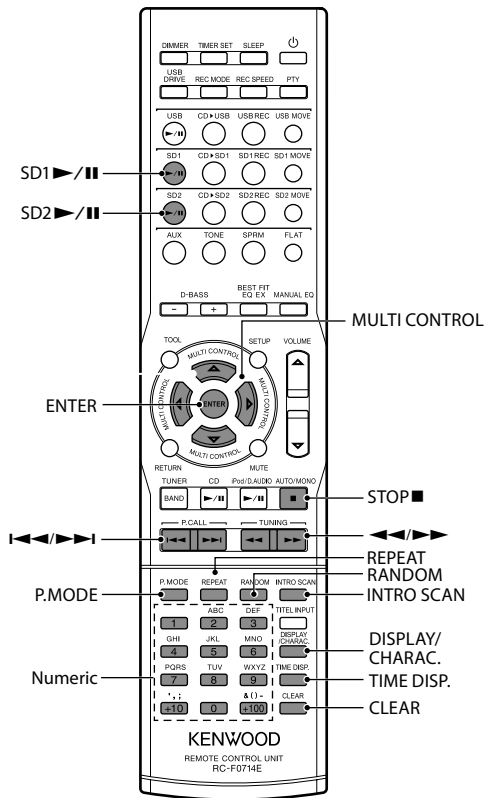


Press [CD ►/|||].

- To clear a music file from the program
Stop playback and press [CLEAR] on the remote control unit. Each press clears the currently last track in the program.
- To add a track in the program
If playback is underway, stop it and perform steps 2 and after.
- To cancel program playback
Stop playback and press [P.MODE] to select the normal play mode. The program is cleared at this time.

- ✓ • Turning the system OFF or taking out a CD with program playback set erases the set program.

Playing an SD card



The audio files in an SD card can be played as described below.

The SD1 and SD2 slots can be used exactly in the same way.

- For the playable files, see "Playable audio files". (page 102)

Playback

1 Insert the SD card.

Insert the SD card in the SD1 or SD2 slot of the main unit.

"SD1" or "SD2" is displayed.

2 Start playback.

Press [SD1▶/||] or [SD2▶/||].



The folders and files are searched and playback is started with the file with the smallest file number.

- For the sequence of playback in case multiple folders and/or files are present, see page 103.
- To remove the SD card:
After stopping, set the system to the standby mode and push the SD card. When it pops out, grasp it and pull out.

- ✓ • Playback does not start if there is no playable file in the card.

Button operations during playback/stop

| To | Operation |
|---|---|
| Switch the display information | Press [DISPLAY/CHARAC.] during playback or stop. Each press switches the displayed information. (page 82) |
| Switch the time display information | Press [TIME DISP.]. Each press switches the displayed information. (page 82) |
| Stop | Press [STOP ■] during playback. |
| Pause | Press [SD1▶/] or [SD2▶/] during playback. Press again to resume playback. |
| Select a track | Press the numeric button(s). File number selection methods: 7th file → Press [7]. 12th file → Press [+10], then [2]. |
| Select a folder and/or file | Press [MULTI CONTROL]. |
| Fast forward/fast reverse | Press [◀◀]/[▶▶] during playback. Press and hold [MULTI CONTROL ◀/▶] during playback. |
| Skip a file/track | Press [▶▶I]. |
| Return to previous file/track | Press [I◀◀] successively twice or more. |
| Return to the beginning of current file/track | Press [I◀◀] once. |
| Start random playback (Playing music in a random order) | Press [RANDOM]. Each press switches the selection. <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">lit</div> <div style="font-size: 2em; margin: 0 5px;">▶</div> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">Not lit</div> </div> Random playback ON Random playback OFF • When [REPEAT] is pressed in the middle of random playback, random playback in a different order of audio files will start after the current random playback has completed. • It is not possible to skip to already played file/track during random playback. |
| Start repeat playback (Playing music repeatedly) | Press [REPEAT]. Each press switches the selection. <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">lit</div> <div style="font-size: 2em; margin: 0 5px;">▶</div> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">lit</div> <div style="font-size: 2em; margin: 0 5px;">▶</div> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">Not lit</div> </div> Repeat playback of single music file/track. Repeat playback of all music files/tracks. Repeat playback canceled. |

Folder play mode

The system can be set to a mode for playback per folder. In this mode, the system plays only the selected folder and stops after all of its files have been played.

SD1 and SD2 can be set separately.

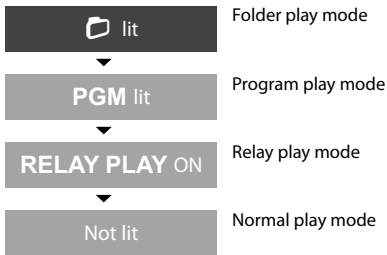
- Select the SD source and enter stop mode.

1 Select "ON" (folder play mode).

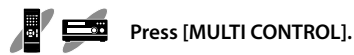


Press [P.MODE].

Each press switches the selection.



2 Select the folder to be played.



Press [MULTI CONTROL].

- For how to select it, see "Folders and files" on page 26.

3 Start playback.



Press [SD1 ▶/||] or [SD2 ▶/||].

- To cancel the folder play mode:
Stop playback and press [P.MODE] to select the normal play mode.

Program playback

Audio files can be played in the order programmed by the user.

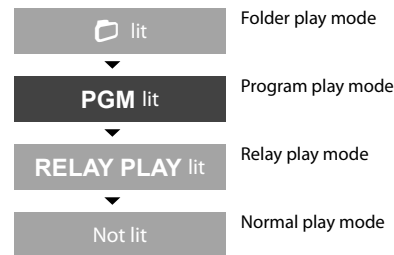
- Select the SD source and enter stop mode.

1 Select "PGM" (program play mode).



Press [P.MODE].

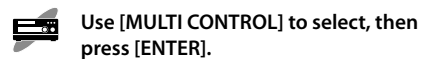
Each press switches the selection.



2 Select a file.



Press [MULTI CONTROL] or the numeric button(s) to select the file, then press [ENTER].



Use [MULTI CONTROL] to select, then press [ENTER].



When the 5th file "T004.WMA" is selected as the first track of the program:

If you committed a mistake in selection, press [CLEAR] on the remote control unit before pressing [ENTER] and restart selection.

- Up to 32 files can be programmed.
- For how to select it, see "Folders and files" on page 26.

3 Start playback.



Press [SD1 ▶/||] or [SD2 ▶/||].

- To clear a music file from the program
Stop playback and press [CLEAR]. Each press clears the currently last track in the program.
- To add an audio file in the program:
If playback is underway, stop it and perform steps 2 and after.
- To cancel program playback:
Stop playback and press [P.MODE] to select the normal play mode. The program is cleared at this time.

- ✓ • The program is cleared when the system is turned OFF or the SD card used in programming is disconnected.

Relay playback of two SD cards

Two SD cards can be played successively in order from SD1 to SD2 or from SD2 to SD1.

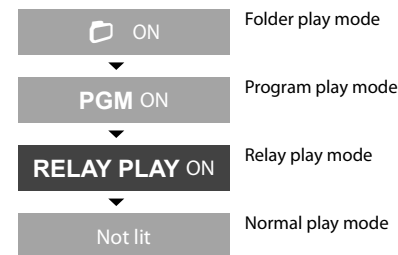
- Select the SD source and enter stop mode.

1 Select "RELAY PLAY" (relay play mode).



Press [P.MODE].

Each press switches the selection.



2 Start playback.



Press [SD1 ▶/||] or [SD2 ▶/||].

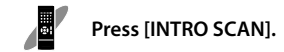
- To cancel relay playback:
Stop playback and press [P.MODE] to select the normal play mode.

Intro Scan playback

Intro Scan plays the first 10 seconds of every audio file. This makes it possible to select the desired audio file from the introduction part and play the entire file in normal playback.

- Select the SD source and enter stop mode.

1 Select the Intro Scan play mode.



Press [INTRO SCAN].



2 When the introduction of the desired file is played, select it.

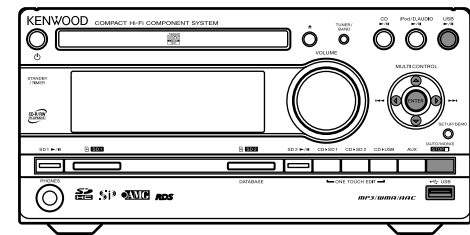
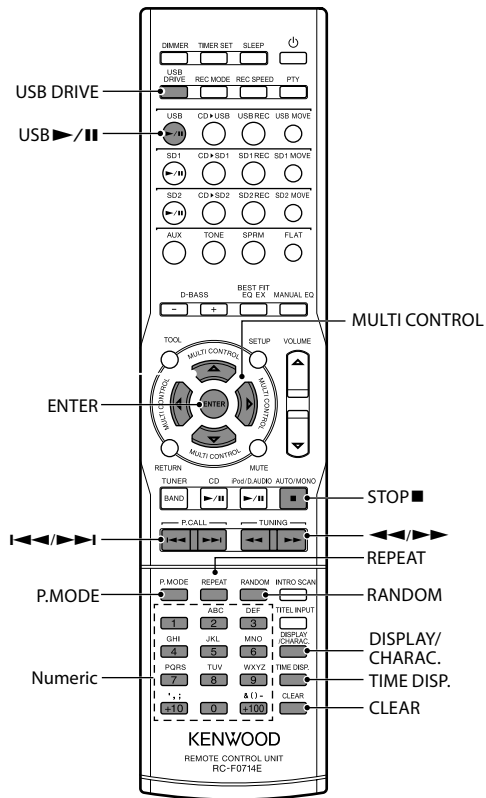


Press [ENTER].

Intro Scan playback completes and normal playback starts.

- ✓ • Editing operations such as file deletion, renaming and moving are possible even in the middle of Intro Scan playback.
- Intro Scan can also be started from the Tool menu. (page 70)

Playing a USB device



A USB device such as a USB flash memory or a digital audio player with USB mass storage class compatibility can be connected to play audio files in it.

- For the playable files, see "Playable audio files". (page 102)

Playback

1 Connect the USB device.

Connect the USB device to the [USB] terminal of the main unit.

"USB" is displayed.

- Also read the instruction manual for the connected USB device.

2 Start playback.

Press [USB▶/||].

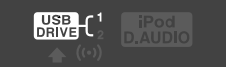







The folders and files are searched and playback is started with the file with the smallest file number.

- For the sequence of playback in case multiple folders and/or files are present, see page 103.

- ✓ Playback does not start if there is no playable file in the card.
- When a digital HDD audio player is connected, the characteristics of the HDD system may cause the sound to be interrupted when playback is resumed after pause.

Button operations during playback/stop

| To | Operation |
|---|---|
| Switch the display information | Press [DISPLAY/CHARAC.] during playback or stop. Each press switches the displayed information. (page 82) |
| Switch the time display information | Press [TIME DISP]. Each press switches the displayed information. (page 82) |
| Switch to another drive | Press [USB DRIVE]. When the connected USB device has two drives, such as the internal memory and SD card drives, for example when Kenwood MGR-A7 is connected, press to select the drive to be used.  Display "1" and "2" are switched over. |
| Stop | Press [STOP] during playback. |
| Pause | Press [USB▶/] during playback. Press again to resume playback. |
| Select a track | Press the numeric button(s). File number selection methods: 7th file → Press [7]. 12th file → Press [+10], then [2]. |
| Select a folder and/or file | Press [MULTI CONTROL]. |
| Fast forward/fast reverse | Press [◀◀]/[▶▶] during playback. Press and hold [MULTI CONTROL ◀/▶] during playback. |
| Skip a file/track | Press [CD▶▶1]. |
| Return to previous file/track | Press [I◀◀] successively twice or more. |
| Return to the beginning of current file/track | Press [I◀◀] once. |
| Start random playback (Playing music in a random order) | Press [RANDOM]. Each press switches the selection.  lit Random playback ON  Not lit Random playback OFF • When [REPEAT] is pressed in the middle of random playback, random playback in a different order of audio files will start after the current random playback has completed. • It is not possible to skip to already played file/track during random playback. |
| Start repeat playback (Playing music repeatedly) | Press [REPEAT]. Each press switches the selection.  1 lit Repeat playback of single music file/track.  lit Repeat playback of all music files/tracks.  Not lit Repeat playback canceled. |

Folder play mode

The system can be set to a mode for playback per folder. In this mode, the system plays only the selected folder and stops after all of its files have been played.

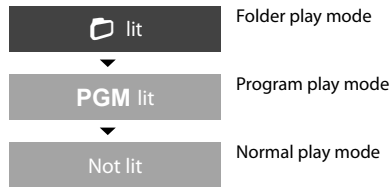
- Select the USB source and enter stop mode.

1 Select "□" (folder play mode).

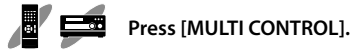


Press [P.MODE].

Each press switches the selection.



2 Select the folder to be played.



Press [MULTI CONTROL].

- For how to select it, see "Folders and files" on page 26.

3 Start playback.



Press [USB ▶/||].

- To cancel the folder play mode:
Stop playback and press [P.MODE] to select the normal play mode.

Program playback

Audio files can be played in the order programmed by the user.

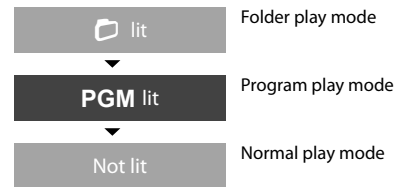
- Select the USB source and enter stop mode.

1 Select "PGM" (program play mode).



Press [P.MODE].

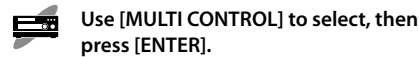
Each press switches the selection.



2 Select a file.



Press [MULTI CONTROL] or the numeric button(s) to select the file, then press [ENTER].



Use [MULTI CONTROL] to select, then press [ENTER].



When the 4th file in folder "005" is selected as the first track of the program:

If you committed a mistake in selection, press [CLEAR] on the remote control unit before pressing [ENTER] and restart selection.

- Up to 32 files can be programmed.
- For how to select it, see "Folders and files" on page 26.

3 Start playback.



Press [USB ▶/||].

- To clear a music file from the program:
Stop playback and press [CLEAR]. Each press clears the currently last track in the program.
- To add an audio file in the program:
Stop playback and perform the operation in steps 2 and 3.
- To cancel program playback:
Stop playback and press [P.MODE] to select the normal play mode. The program is cleared at this time.

- ✓ • The program is cleared when the system is turned OFF or the USB device used in programming is disconnected.

Playing iPod/D.AUDIO

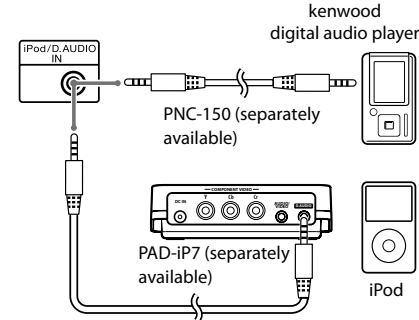
An iPod or kenwood digital audio player can be connected to play audio files in it.

- For the iPod and kenwood digital audio players that can be connected to this system, see "Handling iPod" and "Handling D.AUDIO". (pages 104, 105)

Playback

1 Connect the player.

Connect an iPod or kenwood digital audio player to the [iPod/D.AUDIO IN] terminal on the rear of the main unit using a commercially available connection cable.



- Also read the instruction manual for the connected component.

2 Select the audio source.

Press [iPod/D.AUDIO ▶/■].

3 Turn the connected player ON and start playing it.

"iPod/D.AUDIO" is displayed.

- ✓ While the player is connected to this system, the volume and tone settings on the player are defeated (* except when an iPod is connected through PAD-iPod). If the audio level of the connected iPod/D.AUDIO player is lower or higher than the level at the same volume control position of other audio sources, adjust the input level of this system. For how to adjust the input level, see page 69.

Switching the mode

The playback with the iPod/D.AUDIO connection can be switched between the following two modes.

- iPod/D.AUDIO: Use this mode when the connected player outputs audio only.
- iPod/D.AUDIO (BYPASS MODE): Use this mode when the connected player outputs both video and audio. In this mode, the audio signal is output without passing through the DSP (Digital Signal Processor) so that it will not be delayed with respect to the played video. Note that recording in SD/USB is not possible in BYPASS MODE.

1 Switching the mode

Press [ENTER].

Each press switches the mode.



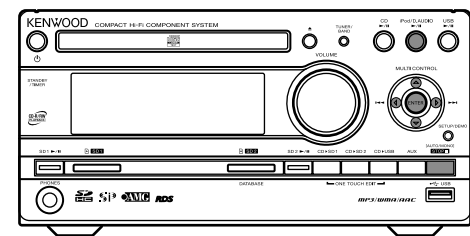
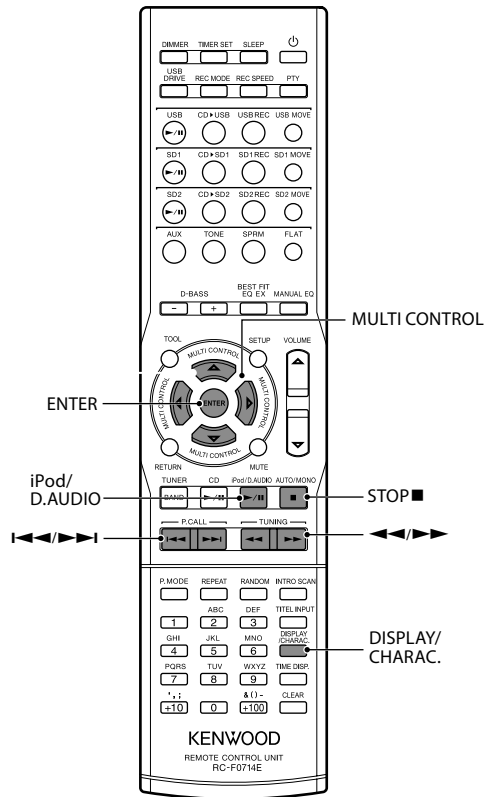
Operation in BYPASS MODE

- The system cannot set the audio settings other than the TONE setting.
 - The record button of the system is defeated.
 - The mode setting is held even after the audio source is switched or the system is turned OFF.
 - Dedicated cable/device for connection
When the separately available PNC-150 (special cable for kenwood digital audio player connection) or PAD-iP7 (special cable for iPod connection) is used to connect the player, the player can be controlled from the main unit and remote control unit.
- For details on the connection and installation, refer to the manual provided with the PNC-150 or PAD-iP7.

Button operations during playback/stop

| To | Operation |
|--|--|
| Stop | Press [STOP ■] during playback. |
| Pause | Press [iPod/D.AUDIO ▶/■] during playback. Press again to resume playback. |
| Skip a folder | Press [MULTI CONTROL ▲/▼]. |
| Fast forward/ fast reverse | Press and hold [I ◀◀]/[▶▶ I] during playback. Press and hold [MULTI CONTROL ◀/▶] during playback. |
| Skip a file | Press [CD ▶▶ I]. Press [MULTI CONTROL ▶]. |
| Return to previous file | Press [I ◀◀] successively twice or more. Press [MULTI CONTROL ◀] successively twice or more. |
| Return to the beginning of current file/ track | Press [I ◀◀] once. Press [MULTI CONTROL ◀] once. |

- Some control operations may be unavailable depending on the connected player.



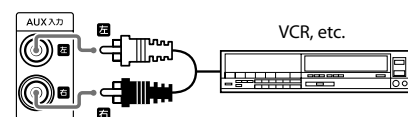
Playback with the AUX Connection

An external component can be connected to the system for playback as the AUX audio source.

Playback

1 Connect an external component.

Connect the [AUX IN] terminals on the rear of the system to the audio outputs of the external component.



- Also read the instruction manual for the connected auxiliary component.
- Be sure to turn both this system and the external component OFF before connecting them.

2 Set the audio source.



Press [AUX].

3 Turn the connected external component ON and start playing it.

- ✓ If the audio level of the connected external component is lower or higher than the level at the same volume control position of other audio sources, adjust the input level of this system. For how to adjust the input level, see page 69.

Switching the mode

The playback with the AUX connection can be switched between the following two modes.

- **AUX:** Use this mode when the connected component outputs audio only.
- **AUX (BYPASS MODE):** Use this mode when the connected player outputs both audio and video, for example it is a VCR. In this mode, the audio signal is output without passing through the DSP (Digital Signal Processor) so that it will not be delayed with respect to the played video. Note that recording in SD/USB is not possible in BYPASS MODE.

1 Switching the mode



Press [ENTER].

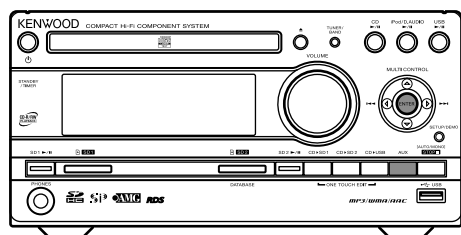
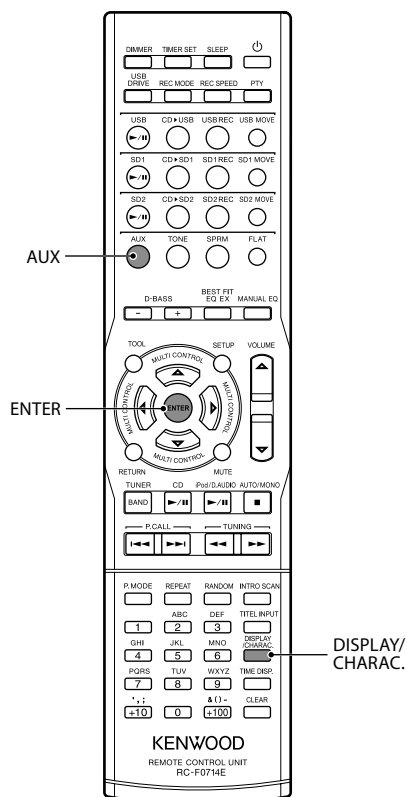
Each press switches the mode.



Select "BYPASS MODE".

Operation in BYPASS MODE

- The system cannot set the audio settings other than the TONE setting.
- The record button of the system is defeated.
- The mode setting is held even after the audio source is switched or the system is turned OFF.



Listening to Radio Broadcasting

A radio station in the FM/AM band can be selected and listened to.

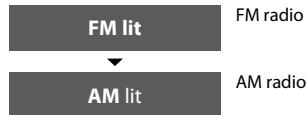
Listening to Radio Broadcasting

1 Select the FM or AM band.



Press [TUNER].

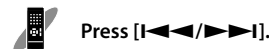
Each press switches the FM/AM band.



2 Select a radio station.

Selecting a station preset in the memory (Preset call)

Select a radio station from the preset memory (No. P01 to P40).



Press [1-4/5-8/9-0].



Press [MULTI CONTROL ◀/▶].



When preset No. P27 is selected

- Pressing and holding the button switches the preset numbers at a high speed.
- The preset number can also be entered directly.

Press the numeric button(s) to select.
To select preset No. P27
Press [+10] twice and [7] once.

Selecting a station that is not preset in memory (Auto tuning/Manual tuning)

1 Select the tuning mode.



Press [STOP].

Each press switches the selection.



Auto tuning

Auto reception is possible when the radio wave condition is favorable.



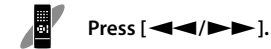
Manual tuning

When the radio wave condition is poor, vary the tuning frequency manually.



When auto tuning is selected:

2 Select a station.



Press [◀◀/▶▶].



Press [MULTI CONTROL ▲/▼].

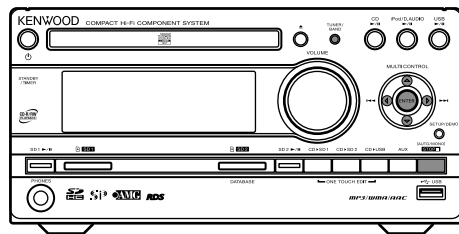
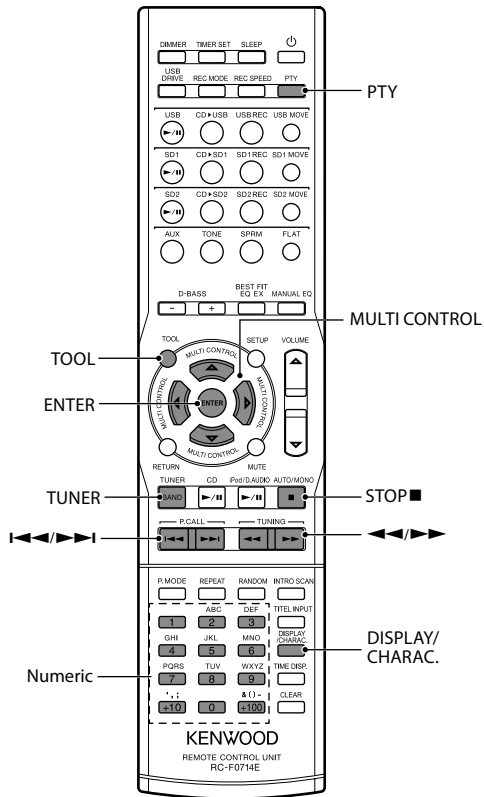
■ Auto Tuning:

Each press tunes into the next receivable station automatically.

■ Manual Tuning:

Each press varies the frequency by 1 step. Hold the button or tilting the knob continuously varies tuned frequencies at a high speed.

- ✓ No audio is output during either auto or manual tuning.
- Auto Tuning receives stations in stereo audio but Manual Tuning receives them in monaural audio. "TUNED" lights up when a station is tuned. "STEREO" lights up when stereo broadcasting is tuned.



Presetting stations automatically (Auto Preset)

Radio stations can be preset automatically in preset channels.

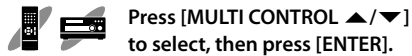
- Stations cannot be preset if other audio source is selected.
- Up to 40 stations can be preset in the system.
- Select the FM or AM band.
- For use of the RDS function, stations must be memorized by AUTO MEMORY.

1 Enter the Tool menu.



Press [TOOL].

2 Select "AUTO MEMORY".



Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



The station is preset in memory and the system enters the status of reception of preset station No. P01.



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

- ✓ 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. (page 45)

Presetting stations manually (Manual Preset)

The FM/AM station being tuned can be preset in memory by specifying the preset No. If a station is preset in a preset No. in which another station has already been preset, the existing setting is overwritten and replaced with the new setting.

1 Tune the radio station to be preset in memory.

Tune with auto tuning or manual tuning. (page 44)

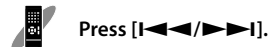
2 Enter the tuned station.



Press [ENTER].



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




Press [I◀◀/▶▶I].



Press [MULTI CONTROL ◀▶].



When preset No. P35 is selected:

- The preset number can also be entered directly.
 **Press the numeric button(s) to select.**
 To select preset No. P35
 Press [+10] three times and [5] once.

4 Preset a radio station.



Press [ENTER].



- To preset other stations, repeat steps 1 to 4 for each of them.
- ✓ Even when a station is preset, it cannot be tuned if the radio wave condition is poor.

RDS (Radio Data System)

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

- Select the FM band.
- Preset RDS stations with the AUTO MEMORY function. (page 46.)
- Some functions may not be provided or be given different names depending on countries or areas.

PS (Program Service Name) Display

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

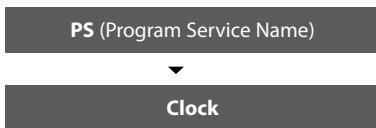


The "RDS" indicator lights up when an RDS broadcast (signal) is received.

- To switch the displays



Each press switches the selection.



Searching for a desired program type (PTY search)

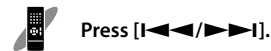
The tuner automatically searches for a station which is currently broadcasting a specified program type (genre).

1 Enter the PTY search mode.



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

2 Select the desired program type



Select it while the PTY indicator is lit. Use program type table for your convenience.

Program type table

| Program Type Name | Display |
|----------------------|----------|
| Pop Music | Pop M |
| Rock Music | Rock M |
| Easy Listening Music | Easy M |
| Light Classical | Light M |
| Serious Classical | Classics |
| Other Music | Other M |
| News | News |
| Current Affairs | Affairs |
| Information | Info |
| Sport | Sport |
| Education | Educate |
| Drama | Drama |

| Program Type Name | Display |
|---------------------|----------|
| Culture | Culture |
| Science | Science |
| Varied | Varied |
| Weather | Weather |
| Finance | Finance |
| Children's programs | Children |
| Social Affairs | Social |
| Religion | Religion |
| Phone In | Phone In |
| Travel | Travel |
| Leisure | Leisure |
| Jazz Music | Jazz |
| Country Music | Country |
| National Music | Nation M |
| Oldies Music | Oldies |
| Folk Music | Folk M |
| Documentary | Document |

3 Start the search.



If a program of the desired type is found, that program is received and the program type name display changes to the station name display.

- To cancel in the middle



- ✓ If a program of the desired type cannot be found, "No Program" blinks, then after several seconds the display returns to the original display.

Before recording

Various recording methods

This system is capable of various recording methods to enable optimum recording according to the recording format and sound properties of the audio sources.

Audio sources recordable with this system

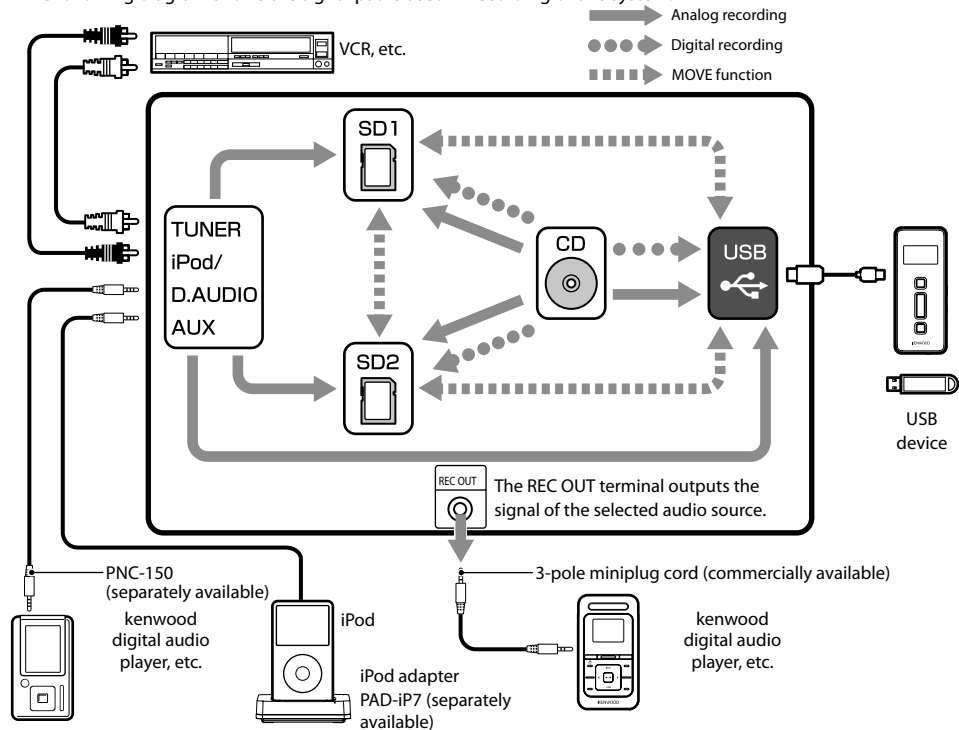
| Recording Source \ Recording Destination | SD1 | SD2 | USB device | Component connected to REC OUT |
|--|------|------|------------|--------------------------------|
| CD | ○/○ | ○/○ | ○/○ | ○ |
| SD1 | — | MOVE | MOVE | ○ |
| SD2 | MOVE | — | MOVE | ○ |
| USB device | MOVE | MOVE | — | ○ |
| iPod/D.AUDIO | ○ | ○ | ○ | ○ |
| Radio broadcast (TUNER) | ○ | ○ | ○ | ○ |
| External component (connected to AUX) | ○ | ○ | ○ | ○ |

○: Signal is recorded in a digital format. —: Recording is impossible.

○: Signal is recorded in the analog format. When a digital copy-controlled CD is recorded, the REC INPUT is switched automatically to "ANALOG". (page 88)

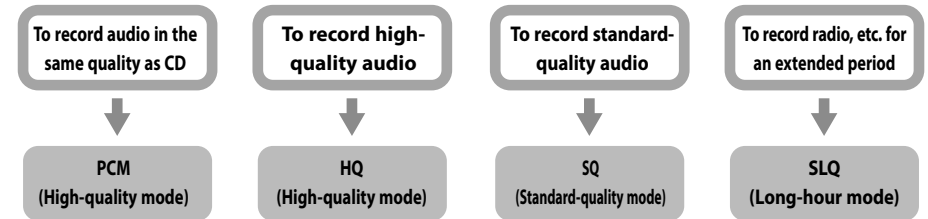
MOVE: Movement of folders/files is possible. (page 60)

The following diagram shows the signal paths used in recording of this system.



Selecting the recording mode according to the quality and purpose

Four modes are available for recording in SD/USB.



Recording modes and recording time

| Record mode \ Memory capacity | PCM (1411 kbps) | HQ (192 kbps) | SQ (128 kbps) | SLQ (96 kbps) |
|-------------------------------|--------------------------|--------------------------|-----------------|---------------------------|
| 128 MB | About 10 minutes | About 1 hour 20 minutes | About 2 hours | About 2 hour 40 minutes |
| 256 MB | About 20 minutes | About 2 hour 40 minutes | About 4 hours | About 5 hour 20 minutes |
| 512 MB | About 40 minutes | About 5 hour 20 minutes | About 8 hours | About 10 hour 40 minutes |
| 1 GB | About 1 hour 20 minutes | About 10 hour 40 minutes | About 16 hours | About 21 hour 20 minutes |
| 2 GB | About 2 hour 40 minutes | About 21 hour 20 minutes | About 32 hours | About 42 hour 40 minutes |
| 4 GB | About 5 hour 20 minutes | About 42 hour 40 minutes | About 64 hours | About 85 hour 20 minutes |
| 8 GB | About 10 hour 40 minutes | About 85 hour 20 minutes | About 128 hours | About 170 hour 40 minutes |

- The maximum number of files recordable in an SD card is 999.
- The recording mode is variable depending on the audio source. For the available recording modes, see "Setting the recording mode per audio source (REC MODE)". (page 86)

One-Touch Edit recording

The One-Touch Edit (O.T.E.) recording function allows the CD to be recorded in an SD card or USB device with a single press of a button.

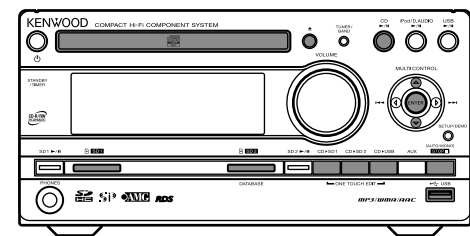
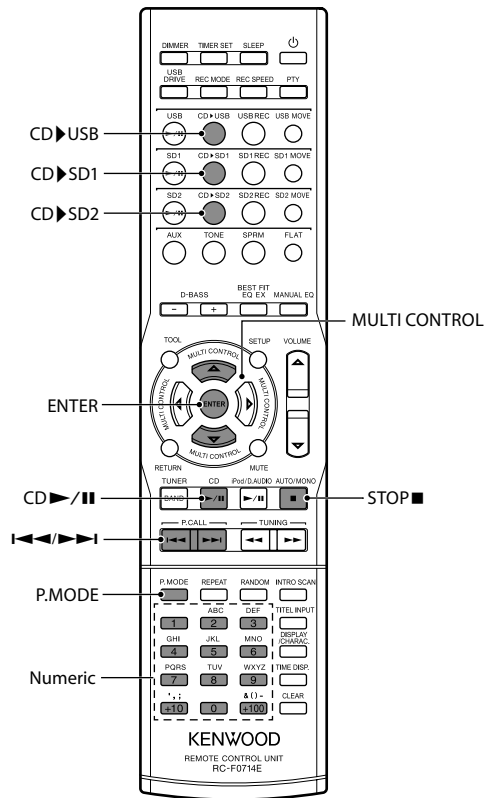
When recording from a digital copy-controlled CD, switch REC INPUT to "ANALOG" before starting the O.T.E. recording.

Recording destination folder/file names

Regardless of the TEXT COPY setting, the radio station name, AMG database information and disc file information are added to the folder and file names.

- In recording from the CD, the title information is added only when it is recorded with the O.T.E. recording. If the AMG database information is available, it is used in priority over other types of title information.

Recording CD in SD/USB



One-Touch Edit recording

Single press of a button starts automatic recording from a CD into SD1, SD2 or USB.

Preparation before recording

- When the CD title information is necessary, acquire it in advance as described in "Acquiring CD title information". (page 24)
- Insert a recordable SD card or USB device in the main unit.
- Load the CD to be recorded.

Recording all tracks in CD

All tracks in the CD will be recorded.

- 1 Select the CD source and enter stop mode.

- 2 Start recording.

Recording in SD

Press [CD>SD1]/[CD>SD2].

Recording in USB

Press [CD>USB].

Recording from CD into SD1/SD2/USB starts. It stops when all of the CD tracks have been recorded.

Recording a single track in CD

Only one track in a CD can be selected and recorded.

- 1 Select the CD source.

- 2 Play the track to be recorded.

Press [CD>/II].

- Select the track in advance.

- 3 Start recording.

Recording in SD

Press [CD>SD1]/[CD>SD2].

Recording in USB

Press [CD>USB].

Recording starts with the beginning of the track being played, and pauses after completion.

Recording desired tracks in desired order

CD tracks can be recorded in the desired order using the program mode.

- 1 Select the CD source and enter stop mode.

- 2 Enter the program mode and select the tracks to be recorded.

Program tracks following steps 1 to 4 in "Program mode playback". (page 30).

- 3 Start recording.

Recording in SD

Press [CD>SD1]/[CD>SD2].

Recording in USB

Press [CD>USB].

Recording of program playback starts.

- To stop recording in the middle:

Press [STOP].

The programmed tracks are recorded until the position where playback is stopped. It is not possible to pause recording in the middle.

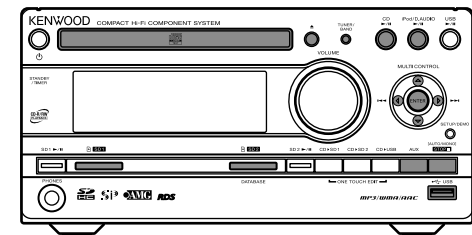
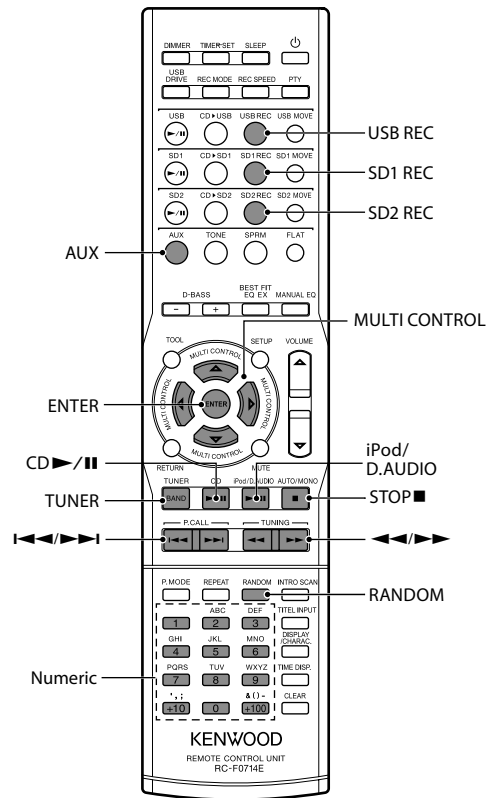
- When recording completes:



"DATA WRITING" blinks and recording end completely.

- ✓ To change recording-related settings, see "Making the recording setup using the Setup menu". (page 84)
- A message is displayed if recording is not possible. For details, see "Displayed Message List". (page 106)
- If the AMG database information or CD-TEXT information is available, the information is added to the recorded folder/files.
- Do not switch the system OFF or apply shock or vibration to it while "DATA WRITING" is displayed.
- If the power to the system is shut off before "DATA WRITING" disappears, the recorded data will be lost.
- Press [STOP] twice to record all of the files in an audio file disc.
- PCM recording at the 4x speed is not possible with a USB device. Set the 1x-speed recording when using the PCM recording mode. (page 87)

Recording general audio source into SD/USB



As well as the audio played with the CD source, the audio played with the TUNER, AUX, iPod or D.AUDIO (Kenwood digital audio player) source can be recorded in SD/USB.

Preparation before recording

- Insert a recordable SD card or USB device in the main unit.
- Prepare the audio source to be recorded.
- Automatic title information acquisition from the AMG database is not available. Remove the SD card containing a copy of AMG database from the SD2 slot.

1 Select the recording source.

Press [CD ▶/||], [TUNER], [iPod/D.AUDIO ▶/||], [AUX].

- When the audio source is CD, select the first track to be recorded and pause at its beginning in advance.
- Make sure that the iPod or D.AUDIO source is stopped.

2 Enter record-pause mode.

Press [SD1 REC]/[SD2 REC]/[USB REC].

3 Start recording.

Recording CD tracks

Start playback of the track to be recorded.

Press [CD ▶/||].

Recording starts automatically following the start of playback (sync recording).

Recording radio broadcasting

- 1 Select the station to be recorded. (page 44)
- 2 Start recording.

Press [SD1 REC]/[SD2 REC]/[USB REC].

Recording D.AUDIO files

- 1 Select the first file to be recorded.
- 2 Start recording.

Press [SD1 REC]/[SD2 REC]/[USB REC].

- 3 Start playback of the file to be recorded.

- When the dedicated cable (separately available PNC-150) is used for the connection, the Kenwood digital audio player can be controlled from the main unit or remote control unit.
- If a cable other than PNC-150 is used for the connection, start playback on the connected Kenwood digital audio player.

Recording iPod files

- 1 On the iPod, select the file to be recorded.
- 2 Start recording.

Press [SD1 REC]/[SD2 REC]/[USB REC].

- 3 On the iPod, start playback of the file to be recorded.

- When the dedicated adapter (separately available PAD-iP7) is used for the connection, the iPod can be controlled from the main unit or remote control unit.

Recording AUX source

- 1 On the AUX-connected external component, start playback of the source.
- 2 Start recording.

Press [SD1 REC]/[SD2 REC]/[USB REC].

To pause recording temporarily:

Press [SD1 REC]/[SD2 REC]/[USB REC].

The file being recorded is closed and saved. When recording is resumed, the rest of music is saved as a new file in the same folder.

To stop recording in the middle:

Press [STOP ■].

When recording completes:



"DATA WRITING" blinks and recording ends completely.

- ✓ To change recording-related settings, see "Making the recording setup using the Setup menu". (page 82)
- A message is displayed if recording is not possible. For details, see "Displayed Message List". (page 106)
- Do not switch the system OFF or apply shock or vibration to it while "DATA WRITING" is displayed.
- If the power to the system is shut off before "DATA WRITING" disappears, the recorded data will be lost.

Dividing a file during recording

When recording radio broadcasting, the file can be divided automatically.

- For details, see "Setting the file division method (AUTO DIVIDE)". (page 89)

Dividing a file manually

When the point you want to divide comes during recording,

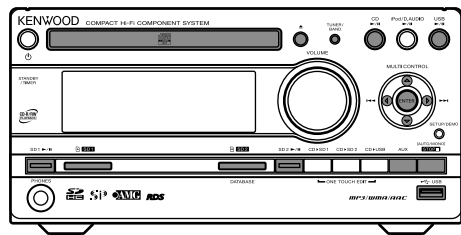
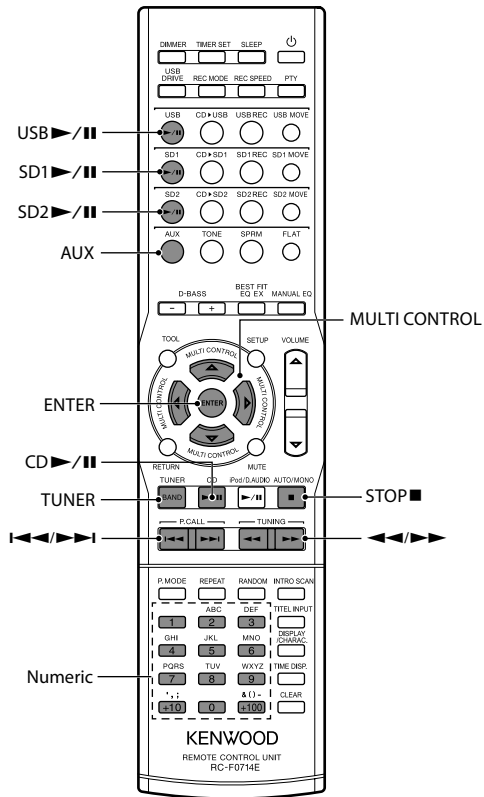
Press [ENTER].

Each press creates a new file.

Dividing a file automatically

Set AUTO DIVIDE to ON before starting recording. For details, see "Dividing files automatically (DIVIDE TIME)". (page 99)

Recording in the digital audio player

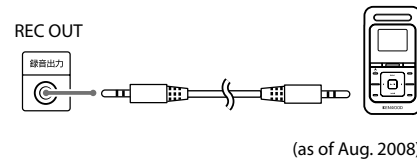


The audio of the CD, SD, USB, TUNER and AUX sources can be recorded in the analog format in a kenwood digital audio player.

Preparation before recording

- Prepare the audio source to be recorded.

1 Connect the digital audio player to the [REC OUT] terminal.

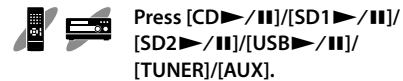


Connectable kenwood digital audio player/recorder models

M2GC7/M1GC7/MGR-A7

- Also read the instruction manual for the connected digital audio player.

2 Select the audio source to be recorded.



- The CD, SD and USB sources should be set to stop mode.

3 Prepare recording.

Recording CD/SD/USB tracks/files

Select the track/file to be recorded or pause at the position where you want to start recording.

Recording radio broadcasting

Select the station to be recorded. (page 44)

Recording AUX source

On the AUX-connected external component, start playback of the source.

4 Start recording of the digital audio player.

- For the recording procedure, also refer to the manual for the connected digital audio player.

Recording CD/SD/USB tracks/files



Recording radio broadcasting

Recording starts.

Recording AUX source

Recording starts.

- **To stop the track/file being recorded:**



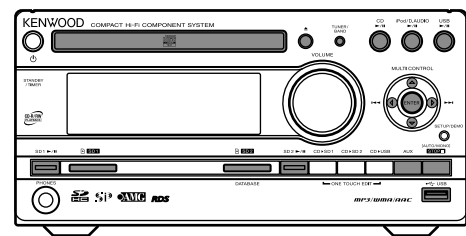
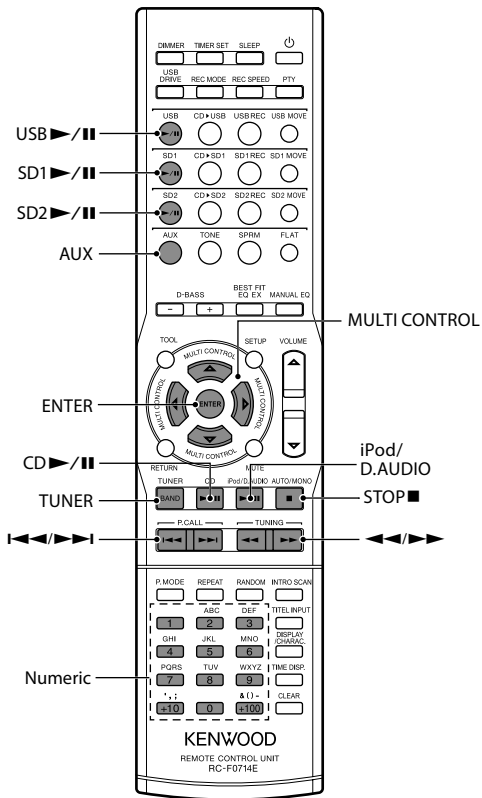
- **To stop recording:**

Press the stop button of the connected digital audio player.

- **If the recorded audio is distorted or its level is too low:**

Adjust the recording level. Adjust the recording level. For details, see "Setting the recording level (REC LEVEL)". (page 88)

Listening to an audio source while recording another



After the start of recording, this system can switch the audio source and listen to its play. This function is convenient when the recorded audio cannot be monitored, for example during One-Touch Edit recording of CD (at the 4x speed).

- Whether or not playback of another source is possible is determined by the recording speed, recording path and the new audio source. Check the table on the next page.

Example) Listening to an audio source during recording of CD in SD1 (at 4x speed)

The TUNER, SD2, AUX, USD or iPod/D.AUDIO source can be selected.

Press [TUNER]/[SD2▶/||]/[AUX]/[USB▶/||]/[iPod/D.AUDIO▶/||].

Example) Listening to an audio source during recording of radio broadcasting in USB

The CD source can be selected.

Press [CD▶/||].

- The display becomes as follows when an audio source is listened to during recording of another source.



- To stop recording in the middle:

- 1 Switch the audio source to the source being recorded.



- 2 Press [STOP■].

Press [STOP■].

The programmed tracks are recorded until the position where playback is stopped. It is not possible to pause recording in the middle.

- When recording completes:

The audio source is switched automatically to the recorded source even the playback being listened to is not completed.

✓ • Relay playback of SD1 and SD2 is not possible.

- During 4x-speed recording

| Recording path | Playable audio source | | | | | | |
|----------------|-----------------------|----------------------|-----|-----|-----|-----|--------------|
| | TUNER | CD | SD1 | SD2 | USB | AUX | iPod/D.AUDIO |
| CD→SD1 | ○ | In use for recording | — | ○*1 | ○*1 | ○ | ○ |
| CD→SD2 | ○ | In use for recording | ○*1 | — | ○*1 | ○ | ○ |
| CD→USB | ○ | In use for recording | ○*1 | ○*1 | — | ○ | ○ |

- During 1x-speed recording

| Recording path | Playable audio source | | | | | | |
|------------------|-----------------------|----------------------|-----|-----|-----|----------------------|----------------------|
| | TUNER | CD | SD1 | SD2 | USB | AUX | iPod/D.AUDIO |
| TUNER→SD1 | In use for recording | ○*2 | — | — | — | — | — |
| TUNER→SD2 | In use for recording | ○*2 | — | — | — | — | — |
| TUNER→USB | In use for recording | ○*2 | — | — | — | — | — |
| CD→SD1 | ○ | In use for recording | — | — | — | ○ | ○ |
| CD→SD2 | ○ | In use for recording | — | — | — | ○ | ○ |
| CD→USB | ○ | In use for recording | — | — | — | ○ | ○ |
| AUX→SD1 | — | ○*2 | — | — | — | In use for recording | — |
| AUX→SD2 | — | ○*2 | — | — | — | In use for recording | — |
| AUX→USB | — | ○*2 | — | — | — | In use for recording | — |
| iPod/D.AUDIO→SD1 | — | ○*2 | — | — | — | — | In use for recording |
| iPod/D.AUDIO→SD2 | — | ○*2 | — | — | — | — | In use for recording |
| iPod/D.AUDIO→USB | — | ○*2 | — | — | — | — | In use for recording |

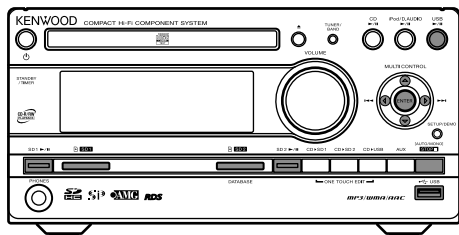
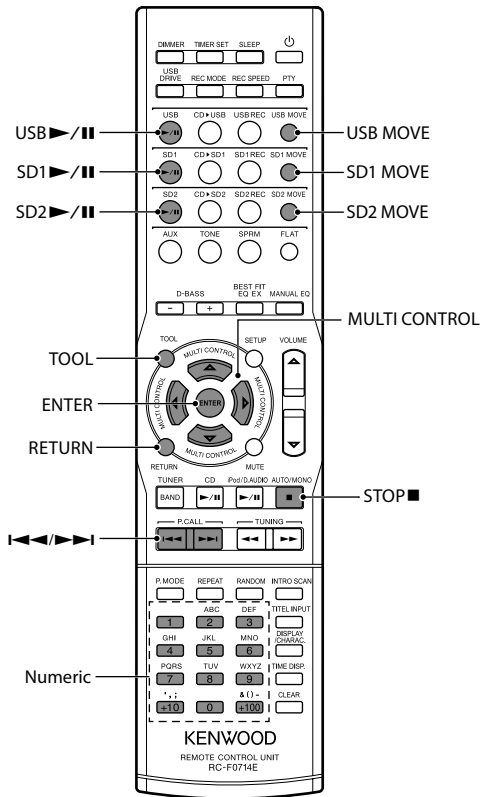
○: Playable.

—: Not playable.

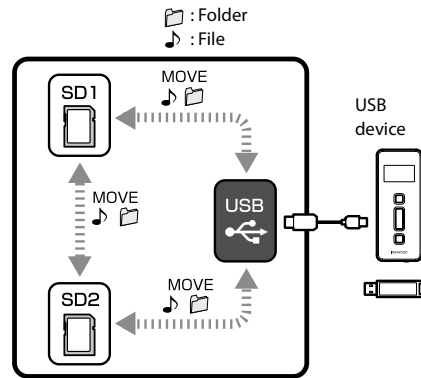
*1: It is not possible to use [◀◀] for skipping to a previous track/file. If track/file selection is required, use [MULTI CONTROL] or the numeric button(s).

*2: 録音中は、AMGデータベースでCDのタイトル取得はできません。

Moving a folder or audio file



A folder or audio file can be moved between SD1, SD2 and USB. Even an audio file being played can be moved.



- To move the file being played, start the procedure from step 4.
- The moved file should be a WMA, MP3, AAC or WAV file.

1 Insert the media.

Insert the SD card(s) and/or USB device for use as the move source and move destination.

- Move source: Medium from which the folder or file is moved.
- Move destination: Medium to which the folder or file is moved.

2 Select the move source audio source.

Press [SD1 ▶/||]/[SD2 ▶/||]/[USB ▶/||].

3 Select the folder or file to be moved.

Use [MULTI CONTROL] or the numeric button(s).

Use [MULTI CONTROL].

- When there is a file being played, this file will be moved.

4 Select the move destination.

Press [SD1 MOVE]/[SD2 MOVE]/[USB MOVE].

continued from "Editing using the Tool menu" (page 70)

Use [MULTI CONTROL ▲/▼] to select, then press [ENTER].

MOVE MODE
SD1 → SD2

When moving from SD1 to SD2

Perform the following steps in the same way as above.

5 Select the move destination folder.

Select where the file or folder is moved by newly creating a folder or to an existing folder.

Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].

MOVE FOLDER
NEW FOLDER

When a new folder is created

MOVE FOLDER
FOLDER SELECT

When an existing folder is selected

MOVE FOLDER
RETURN

When move is canceled

6 Enter the selection.

Once the move operation is started, it cannot be canceled in the middle.

- Select "CANCEL" to cancel the move operation before starting it.

When moving into a newly created folder

Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].

NEW FOLDER
OK

A new folder is created in the move destination KWD folder and movement of the file into the new folder starts.

When moving into an existing folder

- 1 Select the move destination folder.

Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].

FOLDER SELECT
A_A001

When folder "A_A001" is selected as the move destination folder

- 2 Start the move operation.

Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].

A_A001
OK

- If a file with the same name as the moved file is present in the move destination folder, it is possible to select whether the file is moved by overwriting the existing file or the move operation is canceled.

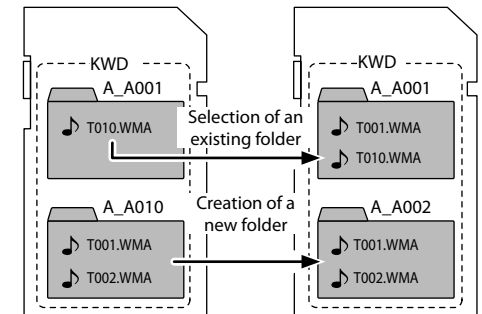
■ The display becomes as follows when the move operation completes.

SD1→SD2(MOVE)
DATA WRITING

At the completion of move from SD1 to SD2

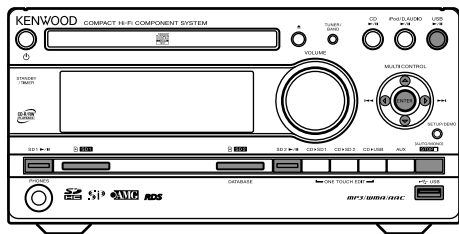
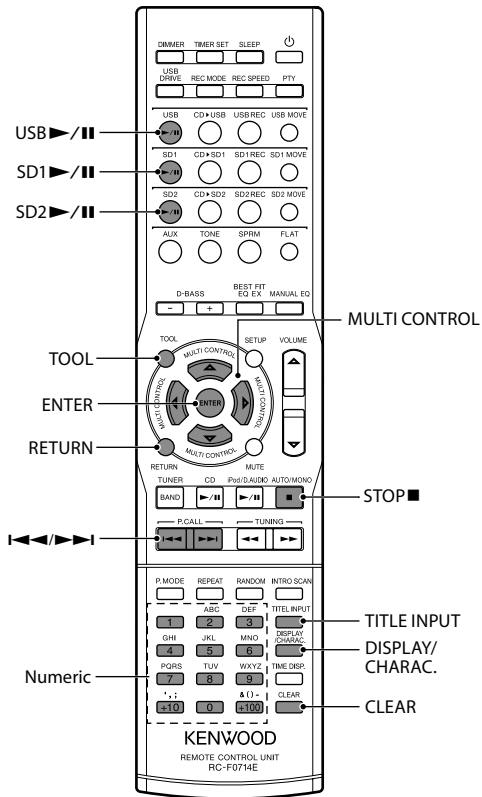
■ Folder and file names of move destination

The folder or file name may sometimes be changed automatically as a result of move.



Folder
File

Renaming a folder or music file



Renaming

The name of a folder or audio file in SD and USB can be modified.

1 Insert the media.

Insert the SD card or USB device containing the file or folder to be renamed in the main unit.

2 Select the audio source.

Press [SD1▶/||]/[SD2▶/||]/[USB▶/||].

3 Select the folder or file to be renamed.

Use [MULTI CONTROL] or the numeric button(s).

Use [MULTI CONTROL].

• If a music file is being played, this file will be renamed.

4 Select Title Input.

Press [TITLE INPUT].

continued from "Editing using the Tool menu" (page 70)

Perform the following steps in the same way as above.

5 Input the desired characters.

To input characters, refer to "Character Input" (page 64)

Folder renaming

Character group (page 64)



The cursor is displayed after the current folder name.



When "BLUE" is added to the folder name

File renaming



The cursor is displayed after the current file name.



When "SKY" is added to the filename

6 Enter the selection.

Press [ENTER].



"COMPLETE" is displayed, then the normal display resumes.

To cancel editing in the middle:

Press [TITLE INPUT], [TOOL] or [STOP■].

Press [STOP■].

- ✓ When renaming a folder or file in SD or USB, be careful not to assign the same name as an existing folder or file.
- The file extension cannot be modified.
- The tag data cannot be modified.
- To rename other folders or files, repeat steps 3 to 6 for each.

Character Input

The character input operation required for renaming is as detailed in the following.

1 Select the character group.

Press [DISPLAY/CHARAC.].

Each press switches the selection.

| | |
|----|--------------------------|
| Aa | Alphabet or symbol input |
| 12 | Numeric or symbol input |

- For details, see "List of characters usable in editing" on the next page.

2 Input the desired characters.

Press the numeric button(s).

Example) When [2] is pressed with group "Aa", each press switches the characters in the following cycle.



3 Input other characters by repeating steps 1 and 2 for each.

When "HAPPY" is input



| Character | Button | Number of presses |
|----------------------------|-------------------|-------------------|
| H | [4] | 2 presses |
| A | [2] | 1 press |
| P | [7] | 1 press |
| Moving cursor to the right | [MULTI CONTROL ▶] | 1 press |
| P | [7] | 1 press |
| Y | [9] | 3 presses |

- To input numeric characters, press [DISPLAY/CHARAC.] to switch the character group and input in the same way as above.

4 Enter the selection.

Press [ENTER].



"COMPLETE" is displayed, then the normal display resumes.

To clear a character:

- Place the cursor on the character to be cleared.

Press [MULTI CONTROL ◀/▶].

- Press to clear the character.

Press [CLEAR].

To insert a character:

- Move the cursor to the position you want to insert a character.

Press [MULTI CONTROL ◀/▶].

- Input the desired characters.

Number of input characters

A folder or file name of SD or USB can be input using max. 28 characters.

Note on the folder and file management numbers

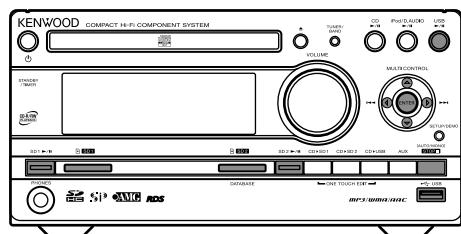
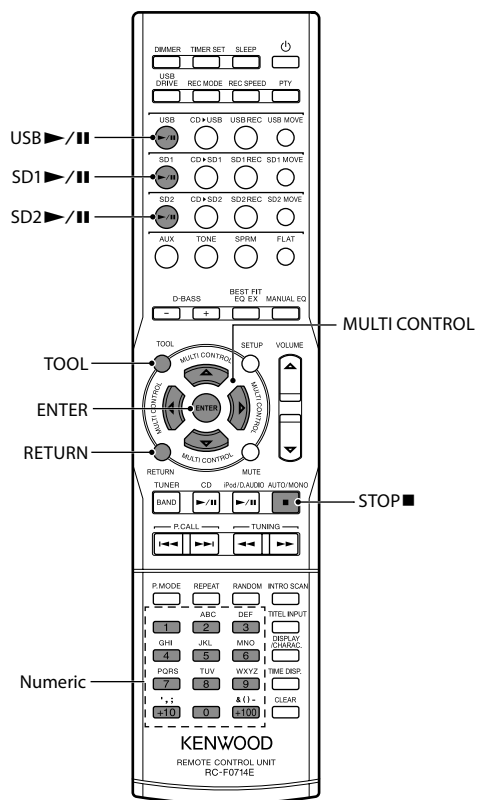
Do not modify the alphanumeric characters (management number) put before a folder or file name in SD or USB. Otherwise, the order of music files will be altered.



List of characters usable in editing

| [Numeric] buttons | Group | Aa | 12 |
|-------------------|-------------------|---------|----|
| | [1] 1 | (Space) | |
| [2] 2 ABC | A B C a b c | | 2 |
| [3] 3 ABC | D E F d e f | | 3 |
| [4] 4 GHI | G H I g h i | | 4 |
| [5] 5 JKL | J K L j k l | | 5 |
| [6] 6 MNO | M N O m n o | | 6 |
| [7] 7 PQRS | P Q R S p q r s | | 7 |
| [8] 8 TUV | T U V t u v | | 8 |
| [9] 9 WXYZ | W X Y Z w x y z | | 9 |
| [0] 0 | (Space) | | 0 |
| [+10] +10 ; , | ' ; , _ ` (Space) | | |
| [+100] +100 &()- | & () - + = # % @ | | |

Deleting a folder or audio file



A folder or audio file in SD or USB can be deleted.

1 Insert the media.

Insert the SD card or USB device containing the folder or file to be deleted in the main unit.

2 Select the audio source.

Press [SD1▶/||]/[SD2▶/||]/[USB▶/||].

3 Select the folder or file to be deleted.

Use [MULTI CONTROL] or the numeric button(s).

Use [MULTI CONTROL].

• When there is a file being played, this file will be deleted.

4 Enter the Tool menu.

Press [TOOL].

5 Select "ERASE".

Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



6 Delete the folder or file.

• Select "CANCEL" to cancel deletion.

Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



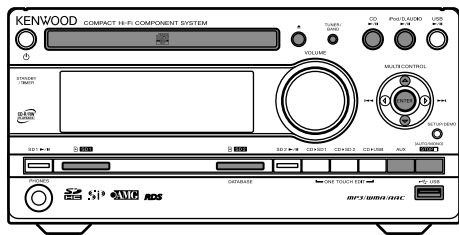
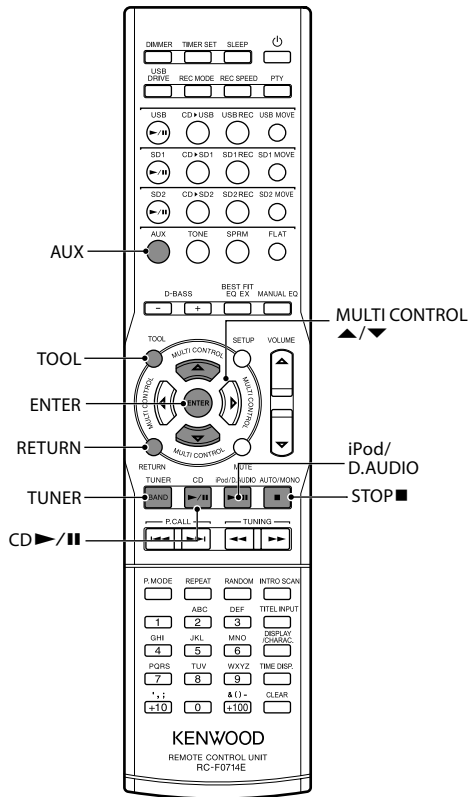
"COMPLETE" is displayed, then the normal display resumes.

■ To cancel editing in the middle:

Press [TOOL].

✓ • A file that cannot be recognized by the system cannot be deleted.

Checking the remaining recording time of SD or USB



The number of folders, the number of audio files and the remaining recording time of SD or USB can be viewed.

1 Insert the media.

Insert the SD card or USB device to be checked in the main unit.

2 Select the audio source.

Press [CD] / [iPod/D.Audio] / [TUNER] / [AUX].

- The remaining recording time of SD1/SD2/USB available with the currently selected audio source is displayed.
- When the CD source is selected, be sure to load a disc.

3 Enter the Tool menu.

Press [TOOL].

4 Select "CAPACITY".

Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].

When checking the capacity of SD1

5 Enter the selection.

Current number of folders/
Folder number limit (200)

Current number of files/
File number limit (1000)

Recording mode

Remaining recording time

- ✓ All of the folders and files recorded with this system are stored in the KWD folder, but the numbers of storable folders and files are limited. (page 102)
- The remaining recording time information is calculated based on the recording modes available with each audio source. (page 86)

Adjusting the External Signal Input Level

If the audio level of the connected external component is lower or higher than the level at the same volume control position of other audio sources, the input level of this system can be adjusted in the range between -3 and +3.

1 Select the audio source.

Press [iPod/D.AUDIO] / [AUX].

2 Enter the Tool menu.

Press [TOOL].

3 Select "INPUT LEVEL".

Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].

INPUT LEVEL
SD1 CAPACITY

4 Adjust the input level.

Press [MULTI CONTROL ▲/▼].

AUX
IN LEVEL +3

When the AUX input level is adjusted to "+3"

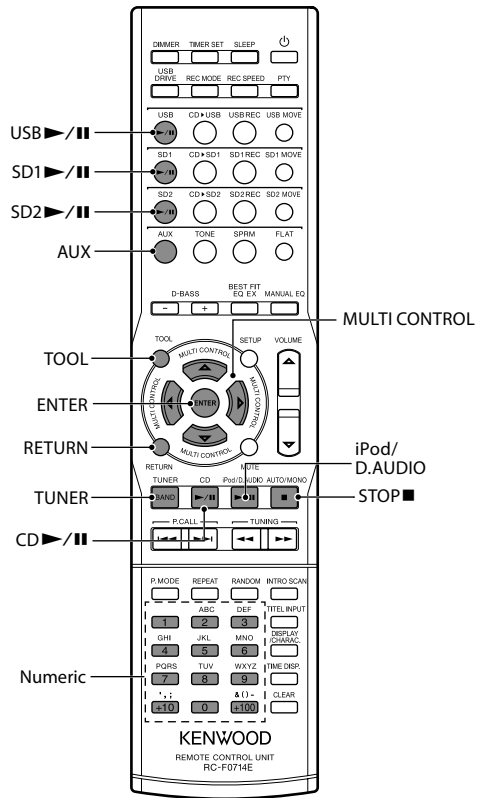
- The input level adjustment is applied only to the audio source selected in step 1.

5 Enter the selection.

Press [ENTER].

- ✓ Adjusting the input level varies the input levels from the external components connected to both the [iPod/D.AUDIO IN] and [AUX IN] terminals.

Editing using the Tool menu



The same editing operations as those available using [TITLE INPUT] of the remote control unit can also be executed using [TOOL]. In addition, some editing items are available only from the Tool menu. If editing is started from the Tool menu, it is possible to apply editing results by simply switching the audio source and editing item.

1 Select the audio source to be edited.

To move, delete or rename a folder or file, also select the folder or file to be edited.

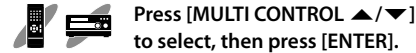
2 Enter the Tool menu.



Press [TOOL].

Editing items are displayed.

3 Select the editing item.



Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].

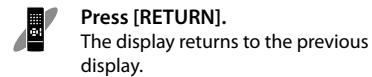


When "ERASE" is selected

4 Perform detail settings of the selected editing item.

Continue operation by following the procedure described in the reference page shown in the following table.

- If you committed a mistake in item or setting



Press [RETURN].
The display returns to the previous display.

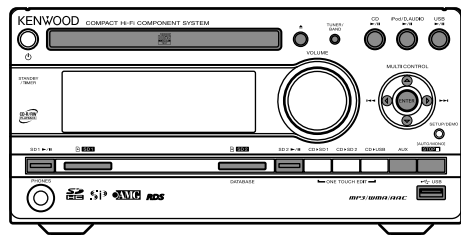
- To exit the Tool menu



Press [TOOL] or [STOP].



Press [STOP].

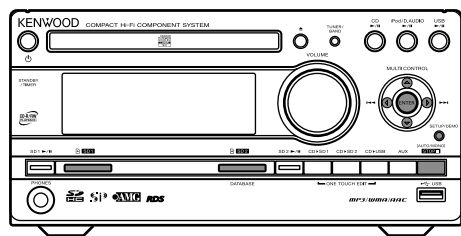
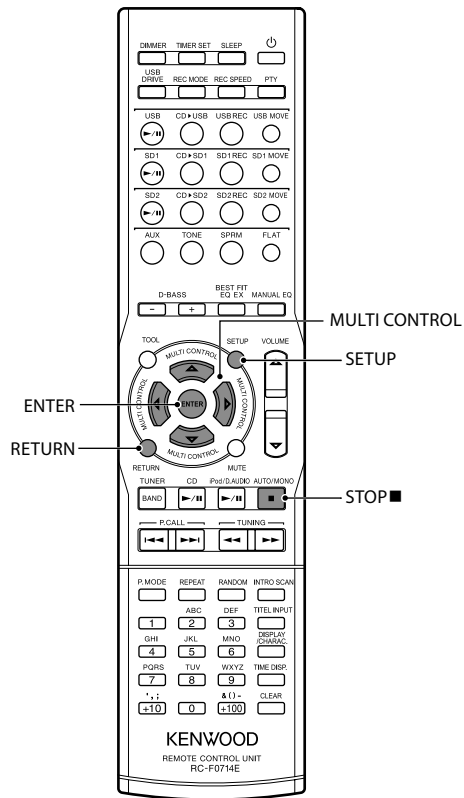


[TOOL]

| Audio source | Editing item | Editing summary | See page |
|---------------------|----------------|---|-------------|
| TUNER | AUTO MEMORY * | Radio stations can be preset automatically in preset channels. | 46 (step 3) |
| | SD1 CAPACITY * | Display the number of folders, number of files and remaining recording time of the SD card in the SD1 slot. | 68 (step 5) |
| | SD2 CAPACITY * | Display the number of folders, number of files and remaining recording time of the SD card in the SD2 slot. | 68 (step 5) |
| | USB CAPACITY * | Display the number of folders, number of files and remaining time of the digital audio player connected to USB. | 68 (step 5) |
| CD | EXIT | Exits the Tool menu. | |
| | SD1 CAPACITY * | Display the number of folders, number of files and remaining recording time of the SD card in the SD1 slot. | 68 (step 5) |
| | SD2 CAPACITY * | Display the number of folders, number of files and remaining recording time of the SD card in the SD2 slot. | 68 (step 5) |
| | USB CAPACITY * | Display the number of folders, number of files and remaining time of the digital audio player connected to USB. | 68 (step 5) |
| iPod/D.AUDIO AUX | No candidate * | Set the selected AMG database information to "no available". | 24 |
| | EXIT | Exits the Tool menu. | |
| | INPUT LEVEL * | Adjusts the input level from the connected external component. | 69 (step 4) |
| | SD1 CAPACITY * | Display the number of folders, number of files and remaining recording time of the SD card in the SD1 slot. | 68 (step 5) |
| SD1/SD2 | SD2 CAPACITY * | Display the number of folders, number of files and remaining recording time of the SD card in the SD2 slot. | 68 (step 5) |
| | USB CAPACITY * | Display the number of folders, number of files and remaining time of the digital audio player connected to USB. | 68 (step 5) |
| | EXIT | Exits the Tool menu. | |
| | ERASE * | Deletes a folder or file. | 66 (step 6) |
| USB | TITLE INPUT | Renames a folder or file. | 62 (step 4) |
| | INTRO SCAN | Starts Intro Scan playback. | 35 (step 2) |
| | MOVE MODE | Moves a folder or file | 61 (step 4) |
| | EXIT | Exits the Tool menu. | |
| USB | ERASE * | Deletes a folder or file. | 66 (step 6) |
| | TITLE INPUT | Renames a folder or file. | 62 (step 4) |
| | MOVE MODE | Moves a folder or file | 60 (step 4) |
| | EXIT | Exits the Tool menu. | |

* These operations are available only from [TOOL].

Making the system setup using the Setup menu



The same setting operations as those available using [DIMMER] of the remote control unit can also be executed using [SETUP] of the main unit or remote control unit. In addition, some setting items are available only from [SETUP]. If setting is started from the Setup menu, it is possible to apply setting results by simply switching the setting item.

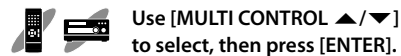
1 Enter the Setup menu.



Press [SETUP].

The setup categories are displayed.

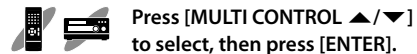
2 Select "SYSTEM SETUP" from the categories.



Use [MULTI CONTROL ▲/▼] to select, then press [ENTER].



3 Select the setting item.



Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].

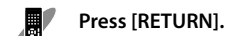


When "TIME ADJUST" is selected

4 Perform detail settings of the selected editing item.

Continue operation by following the procedure described in the reference page shown in the following table.

- If you committed a mistake in item or setting



Press [RETURN].

The display returns to the previous display.

- To exit the Setup menu:

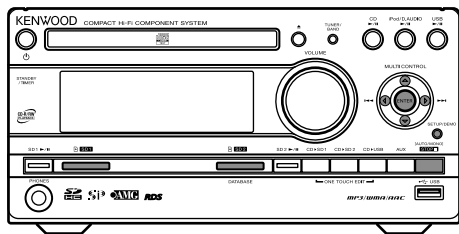
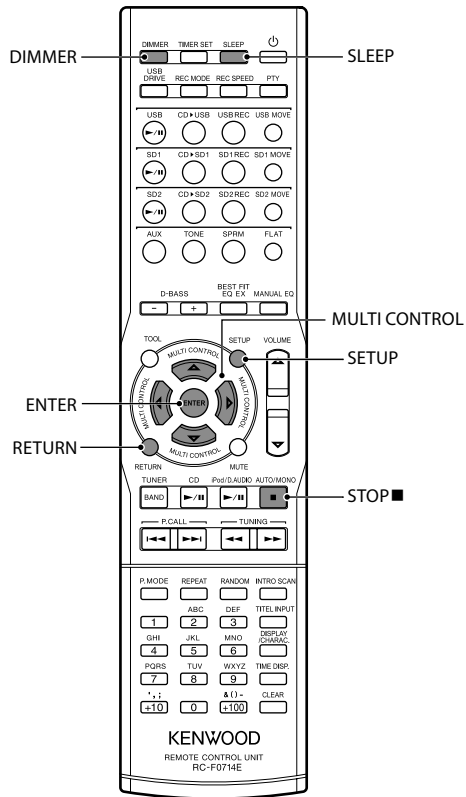


Press [SETUP] or [STOP].

[SETUP]

| Category | Setting item | Setting summary | See page |
|--------------|---------------|--|----------|
| SYSTEM SETUP | SLEEP | Sets the sleep timer. | 74 |
| | DIMMER SET | Adjusts the display brightness. | 75 |
| | SD FORMAT* | Formats an SD card. | 75 |
| | A.P.S.* | Sets the Auto Power Save function to ON/OFF. | 76 |
| | TIME ADJUST* | Adjusts the clock (day of week/hour/minute). | 77 |
| | TIMER SETTING | Reserve recording of radio broadcasting or playback of music at the specified time of the day on the specified day(s) of the week. | 78 |
| | RETURN | Return to the category display. | |
| REC SETUP | REC MODE | Set the recording mode of each audio source. | |
| | O.T.E. SPEED | Set the recording speed of One-Touch Edit recording. | |
| | REC INPUT | Sets whether the digital or analog signal is used in recording of CD in SD/USB. | |
| | REC LEVEL | Set the level of recording in SD/USB/D.AUDIO. | |
| | AUTO DIVIDE | Sets whether the file is divided (for marking distinctions' between music tunes) automatically or manually during recording in SD/USB. | 84 - |
| | DIVIDE TIME | Set the interval for dividing files (for marking distinctions between music tunes) during recording of radio broadcasting, etc. in SD/USB. | |
| | TEXT COPY | Sets copy of the CD-TEXT information together with the CD audio recorded into SD/USB. | |
| | RELAY REC | Sets whether or not recording is relayed from SD1 to SD2 when recording TUNER/AUX/iPod/D.AUDIO into SD. | |
| | RETURN | Return to the category display. | |
| | D-BASS | Adjust the level of low frequencies. | |
| SOUND SETUP | TONE | Adjust the levels of the low frequencies (BASS) and high frequencies (TREBLE). | |
| | MANUAL EQ | Adjust the level of each of the seven frequency bands and registers up to three combinations of settings. | |
| | SPRM | Sets SPRM (Supreme) to OFF/ON. | 92 - |
| | BestFit EQ EX | Sets BestFit EQ EX. | |
| | HR SOUND | Sets HR SOUND to OFF/ON. | |
| | BALANCE | Adjust the balance between the left and right speaker levels. | |
| | RETURN | Return to the category display. | |
| | EXIT | Exits the Setup menu. | |

* These operations are available only from [SETUP].



Setting the Sleep Timer (SLEEP)

During or before playing an audio source, the sleep timer can be set to end the play after the set period of time and turn the system OFF automatically.

1 Select "SLEEP".

Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Setting the Sleep Timer

Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].

Each press switches the selection.



The sleep timer operation indicator lights on the display.

To check the remaining period of the sleep timer after setting:

Press [SLEEP].



- Pressing the button again makes it possible to add a new sleep timer period to the current remaining period.

- The sleep timer cannot be set when the system status is one of the following:
 - In standby mode
 - During power OFF processing
 - During clock/program timer setting
 - During setting using [SETUP]/[TOOL]

To set using [SLEEP] of the remote control unit

Press [SLEEP].

Each press switches the timer.

- The display brightness cannot be adjusted when the system status is one of the following:
 - In standby mode
 - Immediately after power ON
 - During power OFF processing
 - During setting using [SETUP]/[TOOL]

To set using [DIMMER] of the remote control unit

Press [DIMMER].

Each press switches the brightness.

Adjusting the Display Brightness (DIMMER SET)

The brightness of the display panel can be adjusted and the illumination can be switched ON/OFF.

1 Select "DIMMER SET".

Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Adjust the display brightness and illumination.

Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].

- Each press switches the selection.
- DIMMER OFF High display brightness, illumination ON
 - DIMMER 1 Low display brightness, illumination ON
 - DIMMER 2 Low display brightness, illumination OFF
 - DIMMER 3 High display brightness, illumination OFF

Formatting an SD card (SD FORMAT)

This system can be used to format an SD card. Formatting an SD card erases all of the data recorded in it.

1 Select "SD FORMAT".

Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Select the SD card to be formatted.


Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].

- Each press switches the selection.
- SD1 FORMAT
 - SD2 FORMAT
 - RETURN The display returns to the "SYSTEM SETUP" display.

continued on next page ▶▶▶

3 Start formatting.

- Select "CANCEL" to cancel formatting.

 Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



4 Enter the selection.



A message is displayed to solicit reconfirmation of the formatting.

 Press [ENTER].


After completion of formatting, the display returns to the "SYSTEM SETUP" display.

- ✓ Formatting is impossible if the SD card contains a copy of the AMG database.
- Formatting may take long time with certain types of SD card.

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


The A.P.S. (AUTO POWER SAVE) function switches the system OFF automatically when it has not been operated for more than 30 minutes while its power is ON and the CD or SD is in stop mode.

1 Select "A.P.S."

 Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Set the A.P.S. mode to ON/OFF.

 Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].

Each press switches ON/OFF.



"A.P.S." lights when ON is set.

■ When the A.P.S. mode is ON


A.P.S. is activated when the system is in the following status.

- The selected audio source is TUNER, AUX or iPod/D.AUDIO, the volume is set to "0" and no button is pressed
- CD, SD1, SD2 and USB are in stop mode and no button is pressed.

Adjusting the Time (TIME ADJUST)

The day of the week and the time of the day of the system can be set.


1 Select "TIME ADJUST".

 Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Set the day of the week, hour and minute.

Selecting the setting item from day of week, hour and minute

 Press [MULTI CONTROL ◀/▶].

Each press switches the selection.



The selected item lights up.



When "DAY OF WEEK" is selected



When "MINUTE" is selected

Setting the day of week, hour or minute

 Press [MULTI CONTROL ▲/▼].

3 Enter the selection.

 Press [ENTER].

The display returns to the "SYSTEM SETUP" display.

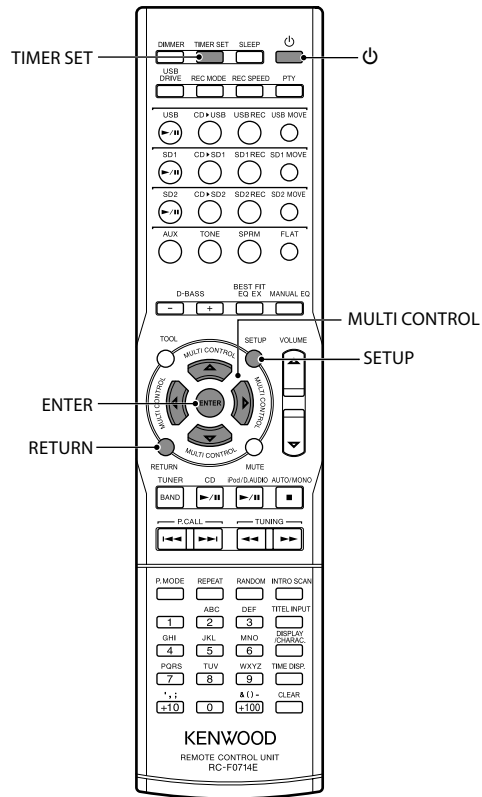
■ To display time of day when the system is OFF (standby mode):

 Press [STOP].



The time of the day is displayed for 5 seconds.

- ✓ If the power cord is unplugged then plugged in or after a power failure, adjust the time of the day again.
- The clock operation involves a certain error. It is recommended to adjust the time of the day periodically.



Setting the program timer (TIMER SETTING)

The program timer can be used to record radio broadcasting in SD1/SD2 at the specified day of the week and time of the day as well as to play radio broadcasting, CD or SD1.

Up to five timer programs can be set. The setting contents can be variable between program numbers.

Setting programs 1 to 3 (for exclusive used in recording)

Radio broadcasting can be recorded in SD1. These programs are designed for exclusive used in timer recording so their setting is easier than programs 4 and 5. The recording mode can be selected from SQ (standard quality) and SLQ (long-hour).

Setting program 4 and 5 (for playback/recording)

Radio broadcasting, CD or SD1 can be played with timer (TIMER PLAY). These programs are optimum for setting as a morning call.

In addition, radio broadcasting can be recorded in SD1/SD2. The recording mode can be selected from HQ (high quality), SQ (standard quality) and SLQ (long-hour).

- Be sure to adjust the clock to the correct time. For the procedure, see "Adjusting the time (TIME ADJUST)". (page 77)

1 Select "TIMER SETTING".

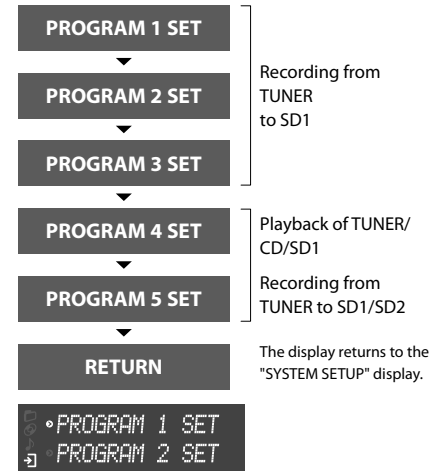
Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Select the PROGRAM number.

Press [MULTI CONTROL ▲/▼].

Each press switches the selection.

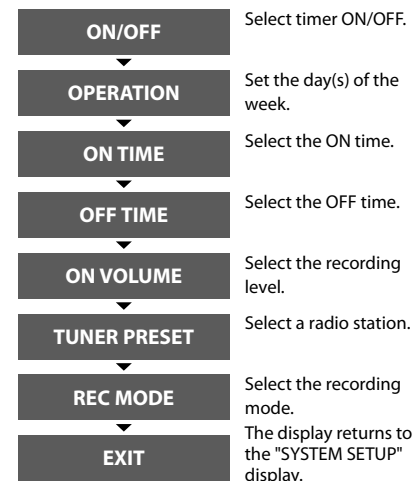


3 Select the programming item.

Press [MULTI CONTROL ▲/▼].

Each press switches the selection.

When PROGRAM1, 2 or 3 is selected in step 2



For the programming items when PROGRAM 4 or 5 is selected in step 2, see the "List of programming items". (page 80)

4 Enter the selection of programming item.

Press [ENTER].

5 Set the details of the programming item.

For the detail setting operation, see "List of programming items". (page 80)
Set all of the necessary programming items by repeating steps 3 to 5 for each.

6 Turn the system OFF.

Press [POWER].

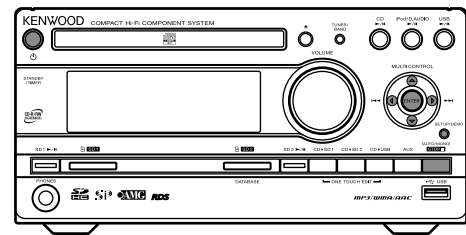


- ✓ The clock should be readjusted when the power plug is disconnected or after a power failure. (page 77)
- When recording of radio broadcasting is programmed, the first section of the broadcasting may be cut off if ON TIME is set exactly at the start time. To prevent this, it is recommended to set ON TIME at about a minute earlier than the start of the broadcasting to be recorded.
- When setting more than one timer program, reserve an interval of at least 3 minutes between the time zones of the programs.


To set using [TIMER SET] of the remote control unit:

Press [TIMER SET].


Each press switches the PROGRAM number. Select the desired PROGRAM number and perform steps 3 to 6.



List of programming items

| Programming items of PROGRAM 1, 2 and 3 | | |
|---|--|--|
| Programming item | Summary | Operation |
| ON/OFF | Select whether the timer is executed or canceled. |  Press [MULTI CONTROL ▲/▼] to select, then press [ENTER]. ON: Executes the timer operation. OFF: Cancels the timer operation. |
| OPERATION | Select the day(s) of the week. | EVERYDAY (Everyday) |
| | | SUNDAY (Sunday) |
| | | MONDAY (Monday) |
| | | TUESDAY (Tuesday) |
| | | WEDNESDAY (Wednesday) |
| | | THURSDAY (Thursday) |
| | | FRIDAY (Friday) |
| | | SATURDAY (Saturday) |
| | | MON-FRI (Monday to Friday) |
| TUE-SAT (Tuesday to Saturday) | | |
| SAT-SUN (Saturday, Sunday) | | |
| ON TIME | Set the timer ON time. | 1 Set the figure of "HOUR". 2 Press [MULTI CONTROL ▶] to switch to "MINUTE". |
| OFF TIME | Set the timer OFF time. | 3 Set the figure of "MINUTE". |
| ON VOLUME | Set the recording level. | This item can be set between 0 and 40 (MAX). |
| TUNER PRESET | Select a radio station (preset number). | Select one of P01 to P40. See page 44 for details. |
| REC MODE | Select the recording mode. | WMA (SLQ) For details on the recording mode, see "Selecting the recording mode according to the quality and purpose". (page 51) WMA (SQ) |
| EXIT | Return to the PROGRAM number selection display in "TIMER SETTING". | |

Programming items of PROGRAM 4 and 5

| Programming item | Summary | Operation |
|-------------------------------|---|---|
| ON/OFF | Select whether the timer is executed or canceled. |  Press [MULTI CONTROL ▲/▼] to select, then press [ENTER]. ON: Executes the timer operation. OFF: Cancels the timer operation. |
| PLAY/REC | Select timer playback or timer recording. | TIMER PLAY*: Execute timer playback. TIMER REC**: Execute timer recording. |
| OPERATION | Select the day(s) of the week. | EVERYDAY (Everyday) |
| | | SUNDAY (Sunday) |
| | | MONDAY (Monday) |
| | | TUESDAY (Tuesday) |
| | | WEDNESDAY (Wednesday) |
| | | THURSDAY (Thursday) |
| | | FRIDAY (Friday) |
| | | SATURDAY (Saturday) |
| | | MON-FRI (Monday to Friday) |
| TUE-SAT (Tuesday to Saturday) | | |
| SAT-SUN (Saturday, Sunday) | | |
| ON TIME | Set the timer ON time. | 1 Set the figure of "HOUR". 2 Press [MULTI CONTROL ▶] to switch to "MINUTE". |
| OFF TIME | Set the timer OFF time. | 3 Set the figure of "MINUTE". |
| ON VOLUME | Set the timer playback volume or the timer recording level. | This item can be set between 0 and 40 (MAX). |
| AI PLAY * | At the start of timer playback, the volume is increased gradually until the value set with ON VOLUME. | ON: Sets AI PLAY. OFF: Cancels AI PLAY. |
| PLAY SOURCE * | Set the audio source to be played. | TUNER When TUNER is selected, proceed to the selection of the radio station (preset number). ① Press [MULTI CONTROL ▶]. ② Press [MULTI CONTROL ▲/▼] to select the radio station, then press [ENTER]. CD SD1 |
| TUNER PRESET ** | Select to set a radio (preset) station. | Select one of P01 to P40. See page 44 for details. |
| RECORDER ** | Select the recording destination source. | SD1: Recording in SD1. SD2: Recording in SD2. |
| REC MODE ** | Select the recording mode. | WMA (SLQ) For details on the recording mode, see "Selecting the recording mode according to the quality and purpose". (page 51) WMA (SQ) WMA (HQ) |
| EXIT | Return to the PROGRAM number selection display in "TIMER SETTING". | |

* TIMER PLAY/ ** TIMER REC: The items displayed hereafter vary depending on the selected operation.

Switching the Display Information

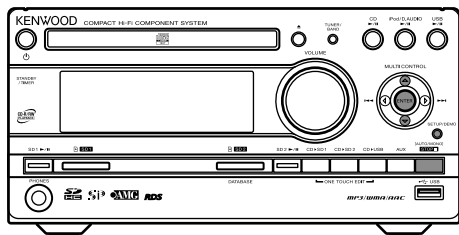
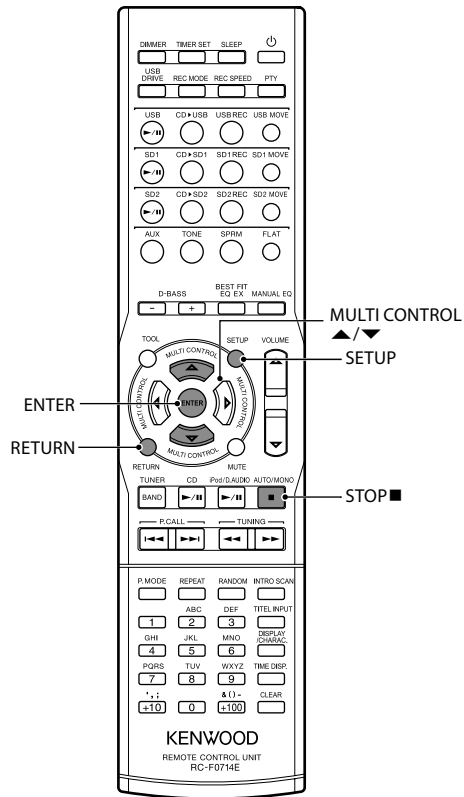


Press [DISPLAY/CHARAC.] or [TIME DISP.].

• The longest time that can be displayed is 9999 minutes 59 seconds. Time longer than this is displayed as "----:--".

| Audio Source | Button | Display During Recording | Display During Playback |
|-------------------------------|-------------------|--|--|
| CD | [DISPLAY/CHARAC.] | | AMG database ▶ Track title* ▶ Artist Name ▶ Genre ▶ Day of Week/Clock * Not displayed in stop mode. Disc title* |
| | | | CD-TEXT present ▶ Track title* ▶ Artist Name ▶ Day of Week/Clock ▶ Album Name CD-TEXT absent ▶ Day of Week/Clock |
| | [TIME DISP.] | | Normal/program play mode ▶ Elapsed time of played music ▶ Remaining time of played music ▶ Elapse time of whole CD ▶ Remaining time of whole CD 1-track repeat/random play mode ▶ Elapsed time of played music ▶ Remaining time of played music |
| Audio files SD | [DISPLAY/CHARAC.] | Recording source name display ▶ SD/USB recording indicators | File name ▶ Folder name ▶ File title* ▶ Artist name* ▶ Album name* * Not displayed in stop mode. ** Not displayed with CD-ROM. Day of Week/Clock ▶ Genre**/** |
| | | | |
| USB | [TIME DISP.] | Remaining SD recording time • The time information is not displayed during the move operation from SD1 or SD2 to USB. | Elapsed time of played music ▶ Remaining time of played music |
| iPod/D.AUDIO/AUX | [DISPLAY/CHARAC.] | | Day of Week/Clock • Only the clock is displayed during playback in BYPASS MODE. |
| TUNER | [DISPLAY/CHARAC.] | | Station name displayed (FM only) ▶ Station name/Frequency ▶ Day of Week/Clock |
| | | | Station name not displayed ▶ Receiving frequency ▶ Day of Week/Clock |

Making the recording setup using the Setup menu



The same recording setting operations as those available using [REC MODE] of the remote control unit can also be executed using [SETUP] of the main unit or remote control unit. In addition, some setting items are available only from [SETUP]. If setting is started from the Setup menu, it is possible to apply setting results by simply switching the setting item.

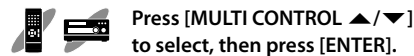
1 Enter the Setup menu.



Press [SETUP].

The setup categories are displayed.

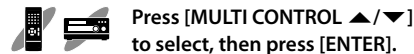
2 Select "REC SETUP" from the categories.



Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



3 Select the setting item.



Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].

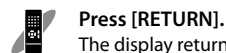


When "REC INPUT" is selected

4 Perform detail settings of the selected editing item.

Continue operation by following the procedure described in the reference page shown in the following table.

- If you committed a mistake in item or setting



Press [RETURN].

The display returns to the previous display.

- To exit the Setup menu:

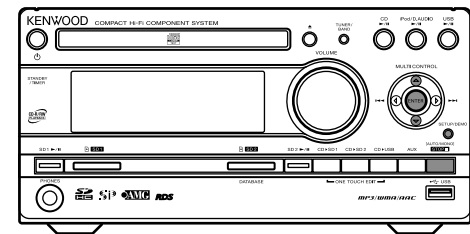
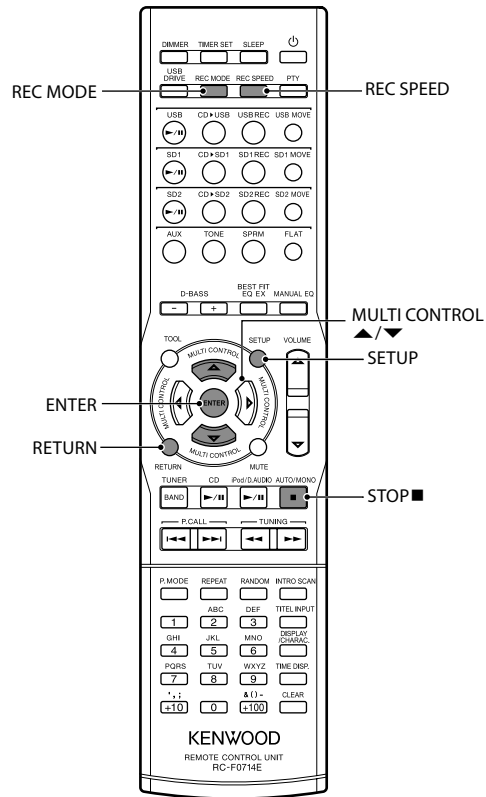


Press [SETUP] or [STOP].

[SETUP]

| Category | Setting item | Setting summary | See page |
|--------------|-----------------------|--|----------|
| SYSTEM SETUP | SLEEP | Sets the sleep timer. | |
| | DIMMER SET | Adjusts the display brightness. | |
| | SD FORMAT | Formats an SD card. | |
| | A.P.S. | Sets the Auto Power Save function to ON/OFF. | |
| | TIME ADJUST | Adjusts the clock (day of week/hour/minute). | 72 - |
| | TIMER SETTING | Reserve recording of radio broadcasting or playback of music at the specified time of the day on the specified day(s) of the week. | |
| | RETURN | Return to the category display. | |
| REC SETUP | REC MODE | Set the recording mode of each audio source. | 86 |
| | O.T.E. SPEED | Set the recording speed of One-Touch Edit recording. | 87 |
| | REC INPUT* | Sets whether the digital or analog signal is used in recording of CD in SD/USB. | 88 |
| | REC LEVEL* | Set the level of recording in SD/USB/D.AUDIO. | 88 |
| | AUTO DIVIDE* | Sets whether the file is divided (for marking distinctions' between music tunes) automatically or manually during recording in SD/USB. | 89 |
| | DIVIDE TIME* | Set the interval for dividing files (for marking distinctions between music tunes) during recording of radio broadcasting, etc. in SD/USB. | 90 |
| | TEXT COPY* | Sets copy of the CD-TEXT information together with the CD audio recorded into SD/USB. | 90 |
| | RELAY REC* | Sets whether or not recording is relayed from SD1 to SD2 when recording TUNER/AUX/iPod/D.AUDIO into SD. | 91 |
| | RETURN | Return to the category display. | |
| | D-BASS | Adjust the level of low frequencies. | |
| SOUND SETUP | TONE | Adjust the levels of the low frequencies (BASS) and high frequencies (TREBLE). | |
| | MANUAL EQ | Adjust the level of each of the seven frequency bands and registers up to three combinations of settings. | |
| | SPRM | Sets SPRM (Supreme) to OFF/ON. | 92 - |
| | BestFit EQ EX | Sets BestFit EQ EX. | |
| | HR SOUND | Sets HR SOUND to OFF/ON. | |
| | BALANCE | Adjust the balance between the left and right speaker levels. | |
| | RETURN | Return to the category display. | |
| EXIT | Exits the Setup menu. | | |

* These operations are available only from [SETUP].



Setting recording mode for each audio source (REC MODE)

The recording mode used in recording in SD/USB can be set per recorded audio source.

1 Select "REC MODE".

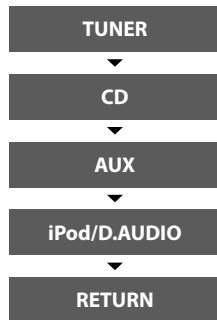
Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Select the audio source you want to set the recording mode.

Press [MULTI CONTROL ▲/▼].

Each press switches the selection.



The display returns to the "REC SETUP" display.

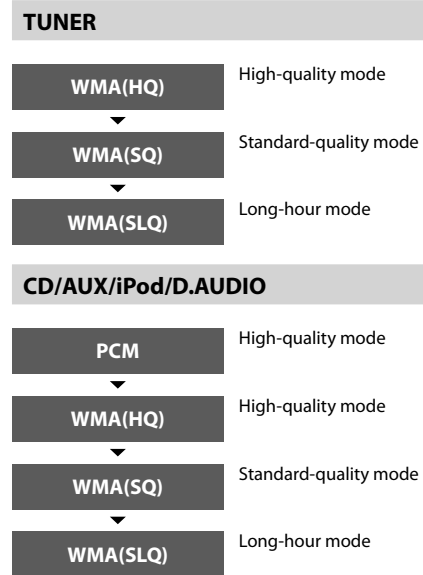
3 Enter the selection of audio source.

Press [ENTER].

4 Select the recording mode.

Press [MULTI CONTROL ▲/▼].

Each press switches the selection.



5 Enter the selection.

Press [ENTER].

- For details on the recording mode, see "Selecting the recording mode according to the quality and purpose." (page 51)

To set using [REC MODE] of the remote control unit:

When the CD, iPod/D.AUDIO, TUNER or AUX audio source is selected:

Press [REC MODE].

Each press switches the recording mode.

Setting the recording speed (O.T.E. SPEED)

The recording speed used in One-Touch Edit recording (page 52) can be set.

1 Select "O.T.E. SPEED".

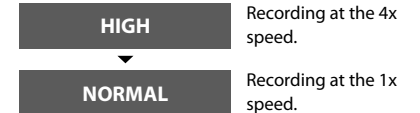
Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Select the recording speed.

Press [MULTI CONTROL ▲/▼].

Each press switches the selection.



3 Enter the selection.

Press [ENTER].

- When a digital copy-controlled CD is recorded, the REC INPUT is switched automatically to "ANALOG". (page 88) At this time, the O.T.E. speed should be set to "NORMAL".

To set using [REC SPEED] of the remote control unit:

When the CD, iPod/D.AUDIO, TUNER or AUX audio source is selected:


Press [REC SPEED].

Each press switches the recording speed.

Setting the recording input (REC INPUT)

When recording a CD in SD/USB, this item is used to select whether digital recording is performed to record the digital output signal or analog recording is performed to record the analog output signal.

1 Select "REC INPUT".

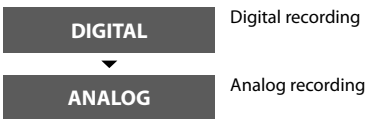
 Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Select the recording input.

 Press [MULTI CONTROL ▲/▼].

Each press switches the selection.



3 Enter the selection.


 Press [ENTER].

- ✓ When a digital copy-controlled CD is recorded, the REC INPUT is switched automatically to "ANALOG".

Setting the recording level (REC LEVEL)

If the audio recorded in the component connected to the [USB]/[REC IN] terminal or in the SD card is distorted or its level is too low, adjust the recording level.

1 Select "REC LEVEL".

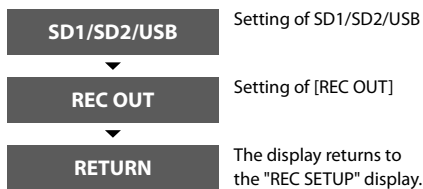
 Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Select the audio source you want to change the recording level.

 Press [MULTI CONTROL ▲/▼].

Each press switches the selection.



3 Enter the selection of audio source.

 Press [ENTER].

4 Adjust the recording level.

 Press [MULTI CONTROL ▲/▼].

SD1/SD2/USB

The recording level can be adjusted as desired in the range between "-2" and "+2".



REC OUT

Select "HIGH" or "LOW" as desired.



5 Enter the selection.


 Press [ENTER].

- ✓ ワンタッチエディット録音のときは、録音レベルは調整できません。

Setting the file division method (AUTO DIVIDE)

When recording radio broadcasting, etc. in SD/USB, this item is used to set whether the file is divided automatically or manually.

1 Select "AUTO DIVIDE".

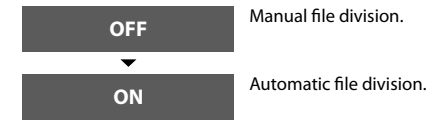
 Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Select the division method.

 Press [MULTI CONTROL ▲/▼].

Each press switches the selection.



3 Enter the selection.

 Press [ENTER].

4 Divide the file.

When OFF is selected

When the point you want to divide comes during recording,

 Press [ENTER].

Each press creates a new file.

When ON is selected


Set the interval for file division in minute. For details, see "Dividing files automatically (DIVIDE TIME)". (page 90)

- ✓ When recording from radio broadcasting, the file is divided at the intervals set with DIVIDE TIME. (page 90)
- When recording from a component connected to iPod/D.AUDIO or AUX, the file is divided every time a no-sound condition has lasted for 3 seconds or more.

Dividing files automatically (DIVIDE TIME)


During recording of radio broadcasting in SD/USB, the file can be divided automatically at the intervals set below.

1 Select "DIVIDE TIME".

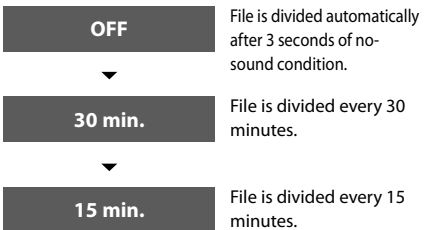
 Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Select the file division interval.

 Press [MULTI CONTROL ▲/▼].

Each press switches the selection.



3 Enter the selection.


 Press [ENTER].

- ✓ Even when the setting for dividing the file every time a no-sound condition has lasted for 3 seconds or more, the file division sometimes does not occur due to noise from the audio source, etc.

Recording the CD-TEXT information (TEXT COPY)

When recording CD into SD/USB, the CD-TEXT information can be copied in the recording destination folder or file name according to the following setting.

1 Select "TEXT COPY".

 Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Select whether or not the CD-TEXT data is recorded.

 Press [MULTI CONTROL ▲/▼].

Each press switches the selection.



3 Enter the selection.


 Press [ENTER].

- ✓ When the CD title information is acquired from the AMG database, the AMG database information is recorded in priority over the CD-TEXT data.

Relay recording between SD1 and SD2 (RELAY REC)

Sets whether or not recording is relayed from SD1 to SD2 when recording iPod/D.AUDIO/TUNER/AUX into SD.

1 Select "RELAY REC".

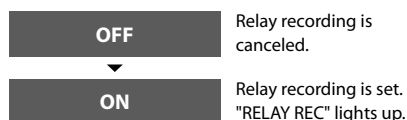
 Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Select whether or not relay recording is used.

 Press [MULTI CONTROL ▲/▼].

Each press switches the selection.

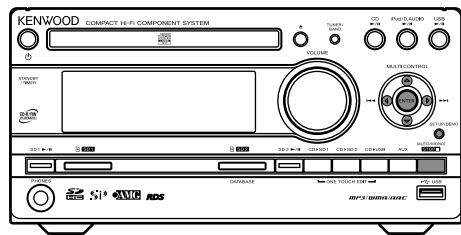
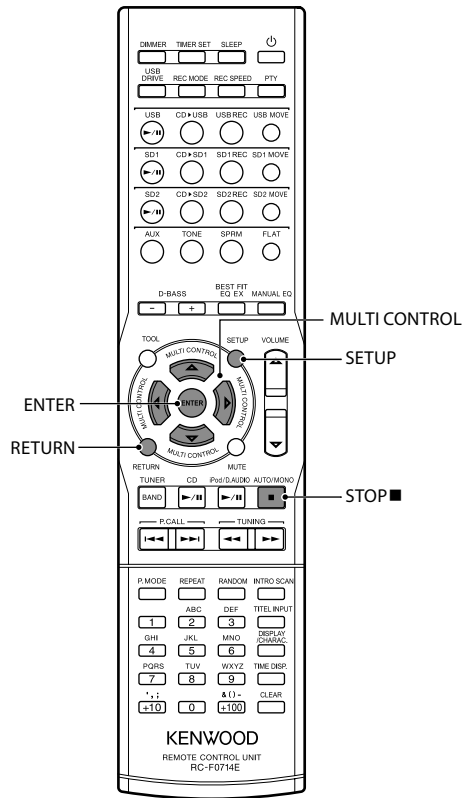


3 Enter the selection.

 Press [ENTER].

- ✓ If the SD card containing a copy of the AMG database is inserted in the SD2 slot, replace the card with another SD card.
- The audio is interrupted at the point the recording destination is switched from SD1 to SD2.

Making the sound setup using the Setup menu



The same sound property setting operations as those available using [REC MODE] of the remote control unit can also be executed using [SETUP] of the main unit or remote control unit. In addition, some setting items are available only from [SETUP]. If setting is started from the Setup menu, it is possible to apply setting results by simply switching the setting item.

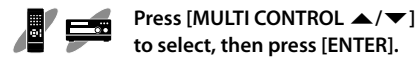
1 Enter the Setup menu.



Press [SETUP].

The setup categories are displayed.

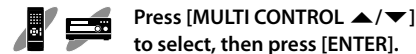
2 Select "SOUND SETUP" from the categories.



Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



3 Select the setting item.



Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].

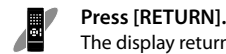


When ERASE is selected

4 Perform detail settings of the selected editing item.

Continue operation by following the procedure described in the reference page shown in the following table.

- If you committed a mistake in item or setting



Press [RETURN].

The display returns to the previous display.

- To exit the Setup menu:

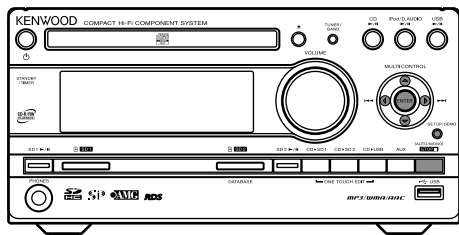
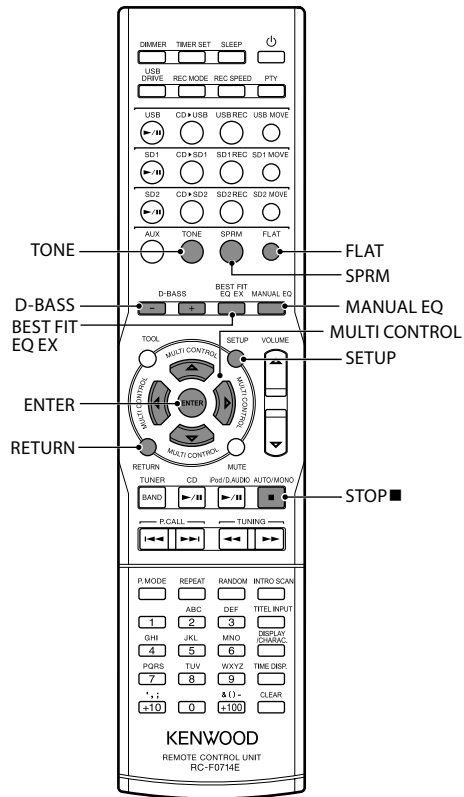


Press [SETUP] or [STOP].

[SETUP]

| Category | Setting item | Setting summary | See page | |
|--------------|---------------|--|----------|----|
| SYSTEM SETUP | SLEEP | Sets the sleep timer. | 72 – | |
| | DIMMER SET | Adjusts the display brightness. | | |
| | SD FORMAT | Formats an SD card. | | |
| | A.P.S. | Sets the Auto Power Save function to ON/OFF. | | |
| | TIME ADJUST | Adjusts the clock (day of week/hour/minute). | | |
| | TIMER SETTING | Reserve recording of radio broadcasting or playback of music at the specified time of the day on the specified day(s) of the week. | | |
| | RETURN | Return to the category display. | | |
| | REC MODE | Set the recording mode of each audio source. | | |
| | O.T.E. SPEED | Set the recording speed of One-Touch Edit recording. | | |
| | REC INPUT | Sets whether the digital or analog signal is used in recording of CD in SD/USB. | | |
| REC SETUP | REC LEVEL | Set the level of recording in SD/USB/D.AUDIO. | 84 – | |
| | AUTO DIVIDE | Sets whether the file is divided (for marking distinctions' between music tunes) automatically or manually during recording in SD/USB. | | |
| | DIVIDE TIME | Set the interval for dividing files (for marking distinctions between music tunes) during recording of radio broadcasting, etc. in SD/USB. | | |
| | TEXT COPY | Sets copy of the CD-TEXT information together with the CD audio recorded into SD/USB. | | |
| | RELAY REC | Sets whether or not recording is relayed from SD1 to SD2 when recording TUNER/AUX/iPod/D.AUDIO into SD. | | |
| | RETURN | Return to the category display. | | |
| | D-BASS | Adjust the level of low frequencies. | | 94 |
| | TONE | Adjust the levels of the low frequencies (BASS) and high frequencies (TREBLE). | | 95 |
| | MANUAL EQ | Adjust the level of each of the seven frequency bands and registers up to three combinations of settings. | | 95 |
| | SPRM | Sets SPRM (Supreme) to OFF/ON. | | 98 |
| SOUND SETUP | BestFit EQ EX | Sets BestFit EQ EX. | 98 | |
| | HR SOUND* | Sets HR SOUND to OFF/ON. | 99 | |
| | BALANCE* | Adjust the balance between the left and right speaker levels. | 99 | |
| | RETURN | Return to the category display. | | |
| | EXIT | Exits the Setup menu. | | |

* These operations are available only from [SETUP].



Enhancing the bass tone (D-BASS)

The level of reproducing the low frequencies can be adjusted in the range between "0" (OFF) and "10".

1 Select "D-BASS".

Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Adjust the enhancement level.

Press [MULTI CONTROL ▲/▼].

The level can be adjusted in the increment/decrement of 1.



"D-BASS" lights up when this setting is made.

3 Enter the selection.

Press [ENTER].

- Pressing [FLAT] ends the D-BASS setting after saving the last condition. Pressing [FLAT] again resets it to the original setting.

To set using [D-BASS +/-] of the remote control unit:

Press [D-BASS +/-].

Enhancing both bass and treble (TONE)

The volume levels of the low frequencies (BASS) and high frequencies (TREBLE) can be enhanced or attenuated independently in 2 dB increments/decrements in the range between "-8 dB" and "+8 dB".

1 Select "TONE".

Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Select the group of frequencies to be enhanced/attenuated and adjust its level as desired.

To select the frequency group

Press [MULTI CONTROL ◀/▶] to select low frequencies (BASS) or high frequencies (TREBLE).

To adjust the level

Press [MULTI CONTROL ▲/▼].



When the low frequency (BASS) level is attenuated by "-2dB".



When the high frequency (TREBLE) level is enhanced by "+6dB".



"TONE" lights up when this setting is made.

3 Enter the selection.

Press [ENTER].

- Pressing [FLAT] ends the TONE setting after saving the last condition. Pressing [FLAT] again resets it to the original setting.

To set using [TONE] of the remote control unit

Press [TONE].

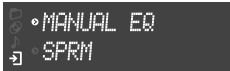
Each press switches ON/OFF. Perform the setting with the operations in steps 2 and 3.

Setting the desired sound properties (MANUAL EQ)

The level of reproducing each of the seven frequency bands (represented by center frequencies) can be enhanced or attenuated independently. Three combinations of these settings can be registered as user setups and later used according to the genres of music.

1 Select "MANUAL EQ".

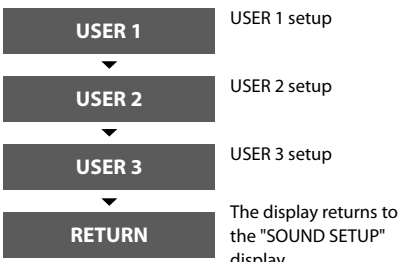
Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Select the user setup number to be used.

Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].

Each press switches the selection.



3 Select the frequency band (center frequency) to be adjusted and adjust its level as desired.

To select the frequency group

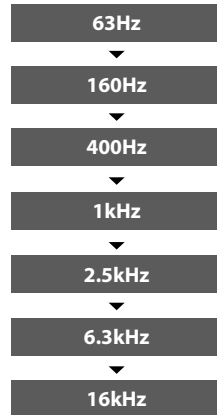
Press [MULTI CONTROL ◀/▶].



The level bar of the selected frequency band blinks. Example) When 400 Hz is selected

Frequency band (center frequency)

Each press switches the selection.
K-511USB/RD-K511USB



For the frequency bands, see "Essences of sound setup". (page 97)

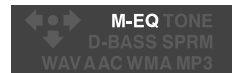
To adjust the level

Press [MULTI CONTROL ▲/▼].

The level can be adjusted in 1 dB increments/decrements in the range between -6 dB and +6dB.



When the level of 400 Hz band is set to -6dB



"M-EQ" lights when this setting is made.

4 Enter the selection.

Press [ENTER].

- Pressing [FLAT] ends the MANUAL EQ setting after saving the last condition. Pressing [FLAT] again resets it to the original setting.

To set using [MANUAL EQ] of the remote control unit:

Press [MANUAL EQ].

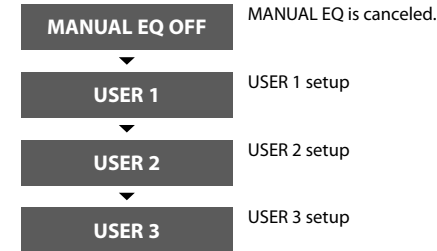
Each press switches the setup number to be used. Perform the setting with the operations in steps 3 to 4.

Recalling a user setup of sound properties (MANUAL EQ)

1 Select the user setup number to be used.

Press [MANUAL EQ].

Each press switches the selection.



Essences of sound setup

| Frequency band (center frequency) | Essences of sound setup |
|-----------------------------------|---|
| Heavy bass band (63 Hz) | Increasing this level reproduces the low-frequency instruments such as the bass and bass drum in a heavy, stable tone. If very low frequencies are too noticeable during listening, decrease this level to an appropriate level. |
| Bass band (160 Hz) | With Japanese-style houses that are less tightly close to European-style houses, the resonant frequency of the listening room is often located in this band, so the low frequencies tend to be exaggerated. In this case, it is often recommended to decrease this level to reduce resonance in the listening room. |
| Mid-bass band (400 Hz) | This band is the basis of music and determines the richness of music. If the audio is felt poor, it is recommended to increase this level slightly to enrich the sound. |
| Mid band (1 kHz) | This Mid band affects most the music featuring the vocal, either enhancing or attenuating the feeling of presence of the vocal according to its level. It is also associated with the depth of music. |
| Mid-treble band (2.5 kHz) | When increased, this band makes the sound more stimulating, metallic or hard. This band can represent freshness or brightness according to the setting, but too much enhancement may sometimes render the sound noisy. |
| Treble band (6.3 kHz) | This band affects the image of music such as the hardness or softness. Increasing its level enriches the sounds of strings (violin, etc.) or wind instruments (flute, piccolo, etc.), but decreasing its level makes these sounds rather quiet. |
| Ultrahigh treble band (16 kHz) | This band affects the expansion and quality of sound. Increasing its level represents the ultrahigh-frequency instruments (triangle, cymbal, etc.) brilliant at the same time as increasing the expansion and delicacy of their sounds. |


Bass ↑
↓ Treble

Reproducing audio with sound properties close to the original (SPRM: Supreme)

When the played audio file lacks high frequencies due to compression used in recording, this function optimizes the reproduced audio using Kenwood-original technology.


- SPRM is valid in playback of SD1, SD2 and USB.

1 Select "SPRM".

 Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Select ON/OFF.

 Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



- ✓ With the remote control unit, this function can be set with the CD, SD and USB audio sources.

To set using [SPRM] of the remote control unit


 Press [SPRM].

Each press switches ON/OFF.

Playing best-fit sound according to genre (BestFit EQ EX)

This function reproduces the optimum sound according to the genre of music.

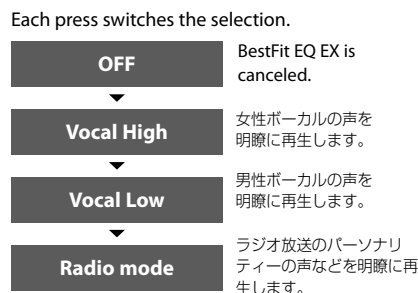
1 Select "BestFit EQ EX".

 Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Select one of the preset modes.

 Press [MULTI CONTROL ▲/▼].



3 Enter the selection.

 Press [ENTER].

- ✓ Pressing [FLAT] ends the BestFit EQ EX setting after saving the last condition. Pressing [FLAT] again resets it to the original setting.
- BestFit EQ EXを設定するとMANUAL EQが解除されます。

To set using [BEST FIT EQ EX] of the remote control unit:

 Press [BEST FIT EQ EX].


Each press switches the preset mode.

Playback with high sound quality (HR SOUND)

This is Kenwood-original sound quality improvement technology, which is capable of reproducing the CD audio with lower distortion as well as audio files.


- HR SOUND以外の音質設定がOFFのときに有効です。

1 Select "HR SOUND".

 Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Select ON/OFF.


 Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



Setting the left and right speaker balance (BALANCE)


Adjust the balance of volume between the left and right speakers.

1 Select "BALANCE".

 Press [MULTI CONTROL ▲/▼] to select, then press [ENTER].



2 Adjust the balance position.

 Press [MULTI CONTROL ◀/▶].



3 Enter the selection.

 Press [ENTER].

Resetting the adjusted frequency characteristics to the original sound (FLAT)

All of the adjustments set with D-BASS, TONE, MANUAL EQ, SPRM and BestFit EQ EX can be reset to the flat condition to reproduce the original sound as it is.

1 Press [FLAT].

 Press [FLAT].

Each press switches ON/OFF.






When ON is selected, lighted indicators such as "TONE" and "D-BASS" are turned off.

- ✓ If the D-BASS, TONE, MANUAL EQ, SPRM and BestFit EQ EX settings are not adjusted after FLAT is set to ON, pressing FLAT again to OFF recalls their previous settings.

Additional Information

Media Usable With This System

| Medium | Icon on this system | Note | |
|--------|---|---|--|
| USB |  | <ul style="list-style-type: none"> Do not connect a component other than a USB flash memory or a USB mass storage class-compatible digital audio player to the [USB] terminal. Kenwood will not assume any liabilities for the malfunction, damage or loss of data that may result from connection of other kind of component. | |
| | | | <ul style="list-style-type: none"> USB flash memory USB mass storage class-compatible digital audio player |
| SD |  | <ul style="list-style-type: none"> An SD/SDHC card of 128 MB to 32 GB can be used. SD/SDHC cards with transfer rate of Class 4 or higher are recommended. A special adapter is required for using a miniSD/microSD card. A multimedia card (MMC) cannot be used. | |
| | | | SD/SDHC card |
| | | | miniSD™ card |
| | | micro SD/SDHC card | |
| CD |  | <ul style="list-style-type: none"> Discs that do not comply with the CD standards, such as the copy-controlled CD may sometimes be unable to be played. Finalizing is required after disc writing. The CD-ROM, CD-R and CD-RW may sometimes be unable to be played with this system depending on the equipment use for recording, the recording conditions and the type of disc. | |
| | | | Commercially available CD |
| | | | CD-R/CD-RW recorded in CD-DA format |
| | | CD-ROM/CD-R/CD-RW recorded in MP3/WMA/AAC/WAV | |

Copyright Information

- Materials recorded from broadcasting, CDs, discs or other recorded materials (music tapes, karaoke tapes, etc.) are protected by the copy right just like the verses and melodies of songs.
- The copyright law prescribes that the permission from the copyright owners is required to sell, distribute, transfer or lend the materials recorded from the above recorded materials or to use them on a commercial basis (including background music in shops, etc.).

Caution for Disc Writing

- A disc recorded with the packet write method or UDF (Universal Disc Format) cannot be played back.
- Be sure to close the session or finalize the disc after writing. A disc that has not been closed or finalized may be unable to be played properly.
- The written folder and file names may not be displayed properly depending on the specifications of the software used in writing.
- When a multi-session disc or a disc containing a large number of folders is played, the time before playback starts may be longer than ordinary discs.
- If both audio files and CD files (CD-DA format) are written on a single disc, it may be unable to be played properly.
- Before writing audio files in a disc, make sure that the PC used in writing can play the files properly. After writing, also confirm that the written files can be played properly.
- Make sure that audio filenames have proper extensions (mp3, wma, m4a). A file without the extension cannot be played. Also, do not put extension (mp3, wma, m3a) to a file that is not an audio file. For the file extensions, see "Playable audio files". (page 102)

Caution for Transport or Movement

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

- Remove the external components including the USB device, SD cards and CD.
- Press [SD1▶/■], [SD2▶/■] and [CD▶/■] and confirm that "NO CARD" or "NO DISC" is displayed.
- Wait a while, and then turn the system OFF.
- If any other external component is connected, make sure that it is turned OFF before disconnecting the connection cable.

Memory Backup

The setups in the system are backed up for about a day even after the power cord has been unplugged from the power outlet.

The backed-up setups are as follows.

Sound and system setups

- Input selection
- Volume setting
- Balance setting
- Input level setting
- D-BASS, MANUAL EQ and SPRM function settings
- Timer settings
- DIMMER setting
- A.P.S.setting

Tuner setups

- Preset stations
- Tuning mode (Auto/manual tuning)
- Receiving band
- Receiving frequency

Recording setups

- Record mode
- Recording speed
- TEXT COPY setting
- Recording level setting
- DIVIDE TIME setting
- AUTO DIVIDE setting

Playable audio files

MP3 file

File format: MPEG 1 Audio Layer 3/ MPEG 2 Audio Layer 3/ MPEG 2 Audio Layer 3 Lower sampling rate (MPEG2.5)

File extension: .mp3

Sampling frequency:

MPEG 1 Audio Layer 3: 32 kHz/44.1 kHz/48 kHz

MPEG 2 Audio Layer 3: 16 kHz/22.05 kHz/24 kHz

MPEG 2.5: 8 kHz/11.025 kHz/12 kHz

Bit rate:

MPEG 1 Audio Layer 3: 32 kbps – 320 kbps

MPEG 2 Audio Layer 3: 8 kbps – 160 kbps

MPEG 2.5: 8 kbps – 160 kbps

WMA file

File format:

Windows Media™ Audio compliant

File extension: .wma

Sampling frequency: 32 kHz/44.1 kHz/48 kHz

Bit rate: 48 kbps – 192 kbps

- Files created with the following functions provided Windows Media™ Player 9 or after cannot be played back:
 - WMA Professional
 - WMA Lossless
 - WMA Voice

WAV file

File format: Linear PCM

File extension: .wav

Sampling frequency: 44.1 kHz/48 kHz

Bit rate: 1411 kbps

AAC file

File format: MPEG-4 AAC (created using iTunes™ 4.1 to 7.7)

File format: .m4a

Sampling frequency: 16 kHz/22.05 kHz/24 kHz/32 kHz/ 44.1 kHz/48 kHz

Bit rate: 32 kbps – 320 kbps

- Files created using the Apple™ lossless encoder cannot be played back.

This system can play CD-ROM, CD-R, CD-RW, SD and USB containing the recording of following audio files.

Disc formats

ISO 9660 Level 1

ISO 9660 Level 2

Joliet

Romeo

SD/USB compatible file systems

FAT16

FAT32

File number limits

Maximum number of folders/files: Total 1000

Maximum number of folders: 200

Maximum number of files per folder: 255

Maximum number of displayable characters

Folder name: 64 characters

Filename: 64 characters (including extension)

Tag display (Title/Album/Artist)

ID3 v1.0/ 1.1: 30 characters

ID3 v2.2/ 2.3/ 2.4: 128 characters

- The non-displayable character is displayed as "**".

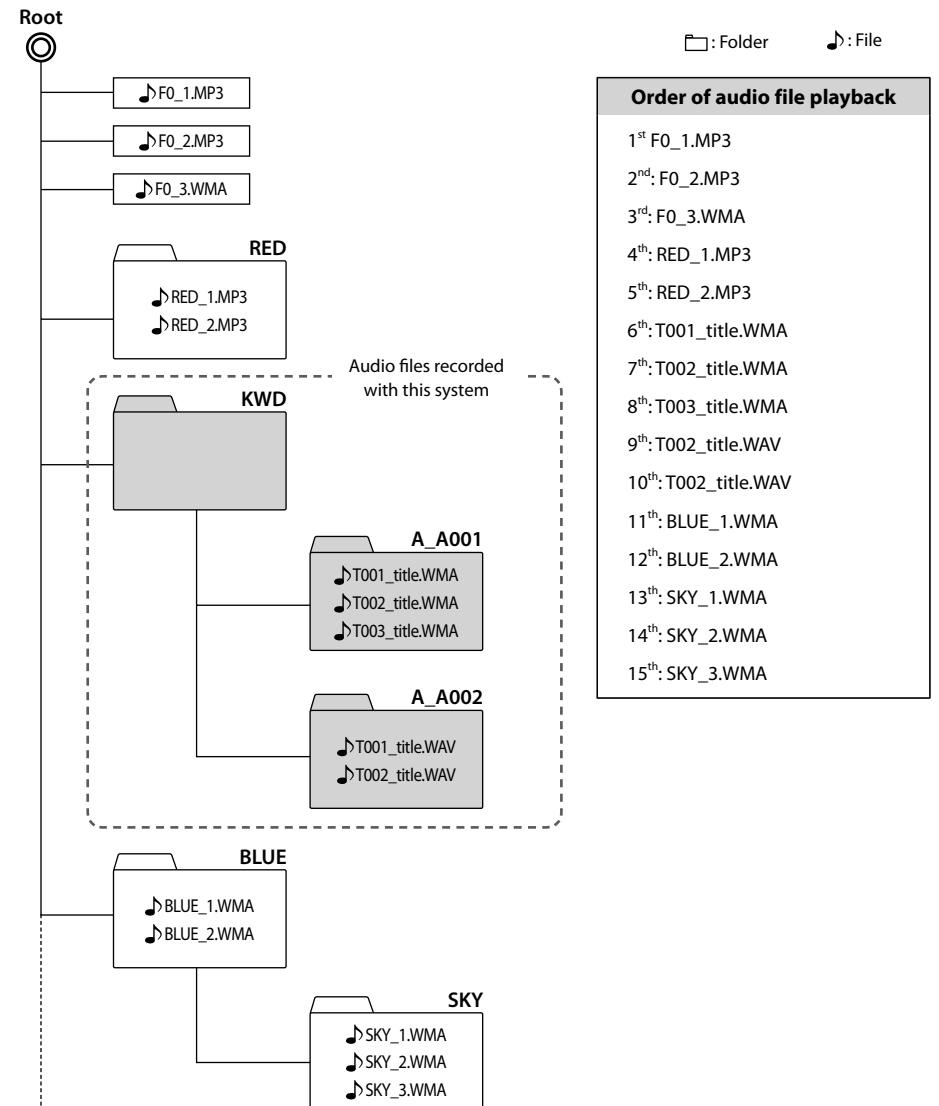
Other cautions

- Even audio files compliant to the above standard may be unable to be played depending on the characteristics and recording conditions of the disc.
- Playback may sometimes be impossible depending on the specifications and setup of the software used in encoding.
- Files with DRM (Digital Rights Management) cannot be played back.
- Audio files encoded in VBR (Variable Bit Rate) may contain data outside the compatible bit rate of this system. Such audio files containing incompatible bit rates cannot be played back.

Order of playback of folders and audio files

Audio files in the root directory are played first. The following diagram shows how this system selects the stored audio files.

Folder configuration example



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 the audio part of a CD (12 cm, 8 cm), CD-ROM, CD-R, CD-RW or CD-EXTRA disc.
- The 8 cm CD adapter cannot be used.

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

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

Cautions on CD discs

Always use a disc carrying the  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.

Handling of USB device

Handling precautions

- Be sure to read the instruction manuals provided with each USB device.
- The USB device is not provided with this system.
- The [USB] terminal on the front panel of the main unit is USB2.0 (Full speed) compatible.
- It is not permitted to connect a USB device through a USB hub.
- The data saved in the USB device may be lost depending on the usage conditions. Kenwood will not assume any liabilities for the damage incurred due to loss of saved data.

Usable USB devices

The following restrictions are applicable to the type and operating method of the USB device.

- The USB device should be USB mass storage class compatible. For whether each USB device is compatible with the USB mass storage class, consult its dealer.
- The maximum current drain should be no more than "500 mA".

If a USB device other than specified above is used, the music files may be unable to be played correctly. Also, note that even a USB device complying with the above specifications may be unable to play certain music files depending on the type or condition of the music files.

Handling iPod

Handling precautions

- Be sure to read the instruction manuals provided with your iPod.
- The iPod is not provided with this system.
- The saved data may be lost depending on the operating situations of the iPod. Kenwood will not assume any liabilities for the damage incurred due to loss of saved data.

Usable iPod

- To control an iPod from the main unit or remote control unit, the PAD-iP7 iPod Dock is necessary. For the usable iPod models, refer to the manual for the PAD-iP7.

Handling of D.AUDIO

Handling precautions

- Be sure to read the instruction manual provided with your kenwood digital audio player.
- The kenwood digital audio player is not provided with this system.
- The saved data may be lost depending on the operating situations of the kenwood digital audio player. Kenwood will not assume any liabilities for the damage incurred due to loss of saved data.

Usable D.AUDIO

- To control a kenwood digital audio player iPod from the main unit or remote control unit, the PNC-150 Kenwood Digital Audio Player Connection Cable is necessary.

Usable kenwood digital audio player models

| HDD audio player | Memory audio player/recorder |
|------------------|--------------------------------------|
| HD20GA7 | MGR-A7/M2GD55/ M1GD55/M1GC7/M2GC7 |

(as of Aug. 2008)

Handling of SD card

Handling precautions

- Be sure to read the instruction manual provided with your SD card.
- The SD card is not provided with this system
- The saved data may be lost depending on the operating situations of the SD card. Kenwood will not assume any liabilities for the damage incurred due to loss of saved data.

Note for disposal/transfer of SD card

The "formatting" and "deletion" functions of this system and a PC consist simply of modifying the file management, and do not erase the data in the SD card completely. Before disposing of or transferring an SD card, it is recommended to destroy the SD card physically or erase the data in it completely by running commercially available data erasure software on a PC.

The data in the SD card should be managed on the user's own responsibility.

SD card (Write protect switch)

The SD card has a switch for inhibiting data write in it. Set the switch to "LOCK" when you want to protect the written data. Set the switch to the unlock position before starting recording, transfer, editing or deletion of the data.



Message List

| Displayed Message | Description |
|---|---|
| AUTO PRESET | Auto Preset is underway for presetting radio stations automatically. |
| CAN'T EDIT | The SD/USB cannot be edited. |
| Can't fix title | An error occurred during entry of the DB title information. |
| Can't load Title | Multiple tiles were hit but the title acquisition failed. |
| CAN'T PLAY | An attempt was made to play a copyright protected file. |
| CAN'T READ | Files in SD/USB cannot be read. |
| Can't Rec. (***: Medium name) | Recording could not be started because it was impossible because the medium cannot be read, etc. |
| Check *** No Capacity (***: Medium name) | Recording was attempted but the medium does not have enough capacity. |
| CHECK CLOCK | An attempt was made to set the timer while the clock is not adjusted. |
| CHECK DISC | <ul style="list-style-type: none"> • TOC*1 data cannot be read. • The disc is not inserted properly. |
| DATA BASE exists in SD | An attempt was made to format the SD card containing a copy of the AMG database. |
| Don't remove *** (***: Medium name) | RECORD/MOVE/FORMAT is underway. |
| EDIT FAILURE | An error occurred during SD/USB editing. |
| Edit now Locked keys. | A button was pressed during editing. |
| END OF TIMER | The system is turned OFF by the program timer/sleep timer. |
| Failed DB search | CD database search failed. |
| Failed MOVE Check *** (***: Medium name) | An error occurred during MOVE or the SD/USB is write protected. |
| FORMAT Locked keys | A button was pressed during formatting. |
| Insert DB SD into SD2 slot | An SD card containing a copy of the AMG database is inserted in the SD1 slot. |
| no available | An error occurred during CD database search (no candidate in the DB). |
| No candidate | No title was hit in CD database search. |
| NO CARD | No SD card is inserted. |
| NO DISC | No CD disc is loaded. |
| NOT CONNECTED | <ul style="list-style-type: none"> • No USB device is connected. • An attempt was made to perform REC or MOVE while no USB device is connected. |

| Displayed Message | Description |
|-----------------------------------|---|
| Not fixed CD title | An attempt was made to start One-Touch Edit recording while the title information is not acquired from the AMG database. |
| NOT FOUND | There is no file that can be read by this system. |
| Now Moving Locked keys. | A button was pressed during MOVE. |
| PGM FULL | An attempt was made to program a 33rd track for program playback. (Programming is possible up to 32 tracks.) |
| Please Change Normal Speed | <ul style="list-style-type: none"> • When 4x-speed recording into a USB device is attempted. • When write in a SD/USB device is not possible with the 4x speed. |
| RANDOM MODE | An attempt was made to start One-Touch Edit recording in the middle of CD random playback. (Random playback should be canceled.) |
| PROTECTED | The SD card is write protected. |
| SCMS | An attempt was made to record the digital signal of a digital copy-controlled source. (Digital recording is not available. Switch to analog recording.) |
| Searching Time-Out | DB title search was aborted forcibly. |
| SETUP TIMER | The system is turned OFF because the program timer is set. |
| Stopped DB searching | DB title search was aborted forcibly. |
| *** Folder No. limit (***: Media) | The folder number in the KWD folder has reached "A_Z999". |

*1: The CD contains information called TOC (Table Of Contents) in addition to audio signals. Like the table of contents of a book, the TOC includes non-rewritable information among the information on the disc such as the number of tracks, playing time and other character information.

Troubleshooting

A trouble with the system does not always mean the failure. Before calling for service, check the following table according to the symptom of trouble.

Amplifier/Speaker Blocks

| Symptom | Remedy | See page |
|---|---|----------|
| No audio output. | • Reconnect the cords properly. | 12 |
| | • Increase the volume level. | 22 |
| | • Set [MUTE] to OFF. | 22 |
| | • If headphones are plugged in, unplug them. | 15 |
| The standby/timer indicator blinks in red and no audio is output. | • The speaker cords may be short-circuited. Unplug the power cord and reconnect the speakers. | 14 |
| | • An internal fault may be produced. Turn the system OFF, unplug the power cord and call for service. | — |
| No audio from headphones. | • Check if headphone plug is inserted properly. | 15 |
| | • Increase the volume level. | — |
| | • Set [MUTE] to OFF. | 22 |
| No audio from one of the speakers. | • Reconnect the cords properly. | 12 |
| The time of the day is not displayed. | • Adjust the clock. | 77 |
| Timer cannot be activated. | • Adjust the clock. | 77 |
| | • Set the On time and Off timer of program timer. | 78 |

Tuner Block

| Symptom | Remedy | See page |
|---|--|----------|
| Radio stations cannot be tuned. | • Connect the antenna(s). | 12 |
| | • Select the appropriate broadcasting band (tuning mode). | 44 |
| | • Tune into the frequency of the desired station. | 44 |
| Noise interferes with reception. | • Install the outdoor antenna away from the road. | — |
| | • Turn OFF the electric appliances installed near this system. | — |
| | • Install the system away from a TV set. | — |
| After Auto Preset, no station can be received by pressing [P.CALL]. | • Perform Auto Preset again. | 46 |
| | • Preset stations with receivable frequencies manually. | 48 |

Remote Control Unit

| Symptom | Remedy | See page |
|--------------------------------|---|----------|
| Remote control is unavailable. | • Replace the batteries with new ones. • Use the remote control unit within the controllable distance. | 11 |

CD Block

| Symptom | Remedy | See page |
|---|---|----------|
| Loaded CD cannot be played back. | • Place the CD properly with the label side up. | 23 |
| | • Clean the disc. | 112 |
| | • Wait until the condensation on the disc surface evaporates. | 112 |
| CD audio is not output. | • Press [CD▶/■]. | 28 |
| | • Clean the disc. | 112 |
| CD sound skips. | • Playback is impossible if the audio file is destroyed. | 102 |
| | • Check if the audio file is playable with this system. | |
| An audio file cannot be played. | • Playback is impossible if the audio file is destroyed. | 102 |
| | • Check if the audio file is playable with this system. | |
| Playback takes time before starting. | • The time until playback may become long if there are large number of folders and/or files. | — |
| The tag data is not displayed correctly. | • Check if the tag data is of the type displayable with this system. | 25 |
| Even when [▲] is pressed, "LOCKED" is displayed and the disc will not come out. | • Unplug the power cord from the power outlet and, while pressing and holding [⏻], plug the power cord again. | 110 |

SD Block

| Symptom | Remedy | See page |
|--|---|----------|
| No sound is output even when an SD card is inserted. | • Insert the SD card properly. | 23 |
| | • Insert an SD card containing music files. | |
| Recording stops in the middle. | • The SD card may not have enough capacity for recording. If there are no unnecessary audio files, replace the SD card with a recordable SD card. | 66 |
| Recording or editing is impossible. | • If the write protect switch is set to "LOCK", set the switch to the unlock position. | 105 |
| | • Replace the SD card with a recordable SD card. | — |
| | • Select the audio source you want to record. | — |
| Some folders cannot be found after recording. | • The number of folders has reached 200. Delete unnecessary folders. | 66 |
| A folder cannot be erased. | • The SD card may contain files other than audio files. Check the SD card content on your PC. | — |
| No folder and file in the SD card is displayed. | • The data in the SD card may be destroyed or the SD card may contain files that cannot be recognized with this system. | — |


USB Block

| Symptom | Remedy | See page |
|--|---|----------|
| Sound is not output even when a USB flash memory or USB mass storage class-compatible audio player is connected. | <ul style="list-style-type: none"> Insert the USB flash memory properly. Connect the USB cable properly. Check if the USB mass storage class-compatible digital audio player is turned ON. | 23 |
| Error message "NOT FOUND" is displayed even when the drive is switched. | <ul style="list-style-type: none"> Insert an SD card containing music files. Insert an SD card in the drive. | 37 |
| A folder cannot be erased. | <ul style="list-style-type: none"> The USB flash memory or USB mass storage class-compatible digital audio player may contain files other than audio files. Check the content on your PC. | — |

Component connected to iPod/D.AUDIO connector

| Symptom | Remedy | See page |
|--|---|-----------|
| Kenwood digital audio player cannot be controlled from the main unit or remote control unit. | <ul style="list-style-type: none"> Connect using the PNC-150 connection cable (separately available). Check if a compatible model is connected. | 14 105 |

Resetting the system

| Symptom | Check Points & Remedy |
|--|--|
| The system malfunctions (resulting in inoperability of the system, erroneous display, etc.). | <p>The system may malfunction due to unplugged and plugging of a cable while the system is ON or to an extraneous cause. In this case, reset the system with the following steps. Resetting the microcomputer results in erasing the setups of the system and returns it to the factory-shipped condition.</p> <ol style="list-style-type: none"> Unplug the power cord from the power outlet. While pressing holding [K] on the main unit, unplug the power cord and plug it again. ("INITIALIZE" is displayed to indicate that the system is reset.)  |

| Term | Description |
|--|---|
| AAC | AAC stands for "Advanced Audio Coding" It is the audio compression method use with the video compression of digital broadcasting, etc. |
| CD-DA | Stands for "Compact Disc – Digital Audio". The CD-DA is usually called "CD". |
| CD-TEXT | Music CD in which the character information such as the disc titles, artist names, track titles, etc. is recorded. |
| MP3 | An audio compression method developed by Faunhofer IIS, Germany. It achieves a high compression rate by thinning out the data of the sound that is less audible to human ears. It can compress music CD data into about 1/11 (128 kbps) while maintaining similar audio quality. |
| SD memory card Class2 Class4 Class6 | Standard on the data read/write speeds of the SD and SDHC memory cards. Three steps of Classes 2, 4 and 6 are standardized and their data transfer rates for read/write are guaranteed respectively at 2 MB/s or more, 4 MB/s or more and 6 MB/s or more. When writing continual data such as music data, it is required that the card is compatible with a speed higher than a certain data transfer rate. With this system, it is recommended to use SD cards of Class 4 or higher. |
| Supreme | This is Kenwood-original band interpolation technology for reproducing audio files in an SD card or USB device with sound properties that are extremely close to the original properties. It employs a unique algorithm to estimate and interpolate the high frequencies lost due to compression for natural, realistic reproduction of music. |
| USB | Standard for interfacing between the PC and peripheral devices. This system is compatible with USB 1.1 and 2.0. |
| USB hub | Adapter for connecting more than one USB device simultaneously. |
| USB mass storage class | Standard for controlling a USB device from a PC. Also, refers to the action that a PC recognizes a USB device connected to it as an external storage device. |
| VBR (Variable Bit Rate) | Technology for assigning the bits by varying their quantity according to the amount of music information. |
| WAV | This is the Windows standard noncompressed audio format. |
| WMA | Stands for "Windows Media™ Audio". This is an audio compressed encoding system developed by Microsoft Corporation. |
| Sampling frequency | Number of times analog signal is converted into digital signal per second. It is 44.1 kHz with music CD. In general, higher sampling frequencies offer higher audio quality. |
| Tag data | Information written in audio file, including the title name, artist name, album name and genre. |
| Bit rate | Figure expressing the amount of information per second. A higher bit rates offer higher audio quality. |
| Ripping | Action of reading digital data from a CD, etc. into a PC. |

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 CD becomes dirty:

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

Care and storage of CD

Before storing the SD card:

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, benzene 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.

Care and storage of SD card

Before storing the SD card:

- Always store the SD card in its case.
- Avoid locations with a very high temperature (such as a place exposed to direct sunlight) or high humidity.

When a CD becomes dirty:

- Wipe gently with a soft, dry cloth.
- Do not use lacquer thinner, benzene or alcohol.

Other cautions

- Do not attempt to open or modify a card.
- Do not peel off the label from the card.
- Do not attach a label or sticker on the card.
- Do not touch the metallic terminals on the back side with a hand or metallic object.

Care and storage of USB device

Be sure to read the instruction manuals provided with each USB device.



Before using the AMG Database CD provided with this product, the user is requested to agree with the following terms and conditions.

Macrovision Flow-Down License Terms (Terms of Use)

This application incorporates software and technology of Macrovision Corporation ("Macrovision"). The Macrovision software and technology (collectively, the "AMG Technology") allows End Users to access music-related data ("AMG Data") over the Internet and otherwise from proprietary AMG databases (the "AMG Databases") located on AMG servers (the "AMG Servers") and to perform other functions. You may access and use AMG Data only by means of the intended End User functions of this application software.

You agree that you will use the AMG Data, the AMG Technology, and the AMG Servers for your own personal non-commercial use only. You agree not to assign, copy, transfer or transmit the AMG Data to any third party. You agree not to use or exploit AMG Data, the AMG Technology, the AMG Databases, or the AMG Servers, except as expressly permitted herein.

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Specifications

Main unit (RD-K511USB)

[Audio section]

Rated power
Output power 20 W + 20 W RMS (1kHz, 10%, 6 Ω)
DIN music power 24 W + 24 W

[Tuner section]

FM tuner section
Tuning frequency range
..... 87.50 MHz – 108 MHz (50 kHz step)
AM tuner section
Tuning frequency range
..... 531 kHz – 1,602 kHz (9kHz step)

[CD section]

Laser Semiconductor laser
Wow & flutter Unmeasurable limit
Supporting disc format
..... ISO 9660 Level 1/2, Juliet, Romeo
Decoding format/type
MP3
MPEG1 Audio layer3
Sampling frequency 32k/44.1k/48 kHz
Bit rate 32k – 320 kbps
MPEG2 Audio layer3
Sampling frequency 16k/22.05k/24 kHz
Bit rate 8k – 160 kbps
MPEG2.5
Sampling frequency 8k/11.025k/12 kHz
Bit rate 8k – 160 kbps
WMA (WMA9 compliant, DRM non-compatible)
Sampling frequency 32k/44.1k/48 kHz
Bit rate (CBR/VBR*) 48k – 192 kbps
AAC (created using iTunes™ 4.1 to 7.7)
Sampling frequency
..... 16k/22.05k/24k/32k/44.1k/48 kHz
Bit rate (CBR/VBR*) 32k – 320 kbps
ID3 tag ver. 1.0/1.1/2.2/2.3/2.4 compatible
Maximum number of folders 255
Maximum number of files 512

[SD card section]

Format SD memory card (Playback/Recording)
Usable SD cards ...SD/SDHC, miniSD, microSD/SDHC card
A special adapter is required for using a miniSD/microSD card. A multimedia card (MMC) cannot be used.
Supporting SD card capacity 128 MB – 32 GB
Supporting file format FAT 16/32
Encoding format/type
WMA SLQ 96 kbps/44.1 kHz Stereo
WMA SQ 128 kbps/44.1 kHz Stereo
WMA HQ 192 kbps/44.1 kHz Stereo
WAV PCM 1411 kbps/44.1 kHz Stereo/16 bit
Decoding format/type
MP3
Sampling frequency 8k – 48 kHz
Bit rate (CBR/VBR*) 32k – 320 kbps
WMA (WMA9 compliant, DRM non-compatible)
Sampling frequency 8k – 48 kHz
Bit rate (CBR/VBR*) 64k – 384 kbps
AAC (created using iTunes™ 4.1 to 7.7)
Sampling frequency
..... 16k/22.05k/24k/32k/44.1k/48 kHz
Bit rate (CBR/VBR*) 32k – 320 kbps
PCM
Sampling frequency 44.1k/48 kHz
Bit rate (CBR/VBR*) 1411 kbps
ID3 tag ver. 1.0/1.1/2.2/2.3/2.4 compatible
Maximum number of folders 200 folders
Maximum number of files 1000 files
Maximum number of folder levels 10 levels

[USB section]

Format USB Host (Playback/Recording)
Usable USB devices USB mass storage class devices
Interface USB 2.0 (Full speed), USB 1.1 compatible
Supporting file format FAT 16/32
Encoding format/type
WMA SLQ 96 kbps/44.1 kHz Stereo
WMA SQ 128 kbps/44.1 kHz Stereo
WMA HQ 192 kbps/44.1 kHz Stereo
WAV PCM 1411 kbps/44.1 kHz Stereo/16 bit
Decoding format/type
MP3
Sampling frequency 8k – 48 kHz
Bit rate (CBR/VBR*) 32k – 320 kbps
WMA (WMA9 compliant, DRM non-compatible)
Sampling frequency 8k – 48 kHz
Bit rate (CBR/VBR*) 64k – 384 kbps
AAC (created using iTunes™ 4.1 to 7.7)
Sampling frequency
..... 16k/22.05k/24k/32k/44.1k/48 kHz
Bit rate (CBR/VBR*) 32k – 320 kbps
PCM
Sampling frequency 44.1k/48 kHz
Bit rate (CBR/VBR*) 1411 kbps
ID3 tag ver. 1.0/1.1/2.2/2.3/2.4 compatible
Maximum number of folders 200 folders
Maximum number of files 1000 files
Maximum number of folder levels 10 levels
Maximum supply current 500 mA

[General section]

Power consumption 67 W
Dimensions (Max.) Width 240 mm
Height 122 mm
Depth 362 mm
Weight 5.0 kg (net)

* VBR audio data may extend outside the compatible bit rate of this system. Audio files containing such data may sometimes be unable to be played.

Speakers (LS-K511)

Enclosure Bass reflex system
Mounted speaker unit
Woofers 120 mm cone type
Tweeter 25 mm balanced-dome type
Impedance 6 Ω
Maximum input power 30 W
Max. dimensions Width 152 mm
Height 265 mm
Depth 212 mm
Weight 2.7 kg (1 pc)

- Design and specifications are subject to change without notice.
- The system may be unable to manifest the full performance in an extremely cold place (under the water freezing temperature).

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 _____