

KENWOOD

COMPACT HI-FI COMPONENT SYSTEM

M-303USB

INSTRUCTION MANUAL

Kenwood Corporation

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

Manufacturer:

Kenwood Corporation

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

EU Representative's:

Kenwood Electronics Europe BV

Amsterdamseweg 37, 1422 AC UITHOORN, The Netherlands



MP3/WMA RDS

B60-5691-08/00 (E, X)

Before applying power





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

Units are designed for operation as follows.

Australia AC 240 V only
Europe AC 230 V only

Safety precautions

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

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

The marking of products using lasers

**CLASS 1 LASER PRODUCT
LASER KLASSE 1
APPAREIL A LASER DE CLASSE 1
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT**

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

Location: Bottom

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.

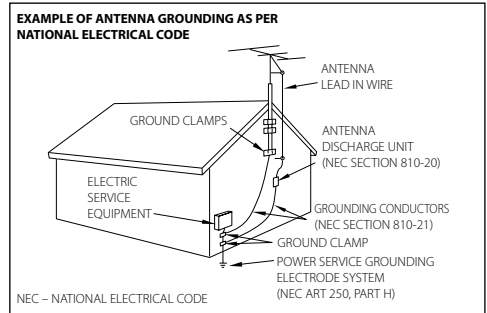
15. Safety Check – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

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:

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

Contents

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

 Before applying power	2
 Safety precautions	2
 IMPORTANT SAFETY INSTRUCTIONS	2
Unpacking	4
Connections	5
Preparing the remote control unit	5
About MP3 and WMA	6
About USB device	7
Description of the button name in this manual	7
Names and functions of parts	8
Basic function	10
Demonstration mode	10
Switching the system on	10
Switching the system to standby mode	10
Volume control	10
Sound control	10
Headphones	10
Using the CD/MP3-CD/WMA-CD/	
USB device	11
Preparation	11
Playing a disc/USB device	11
Selecting a desired track/passage	11
Selecting a desired album/file (For audio file only)	12
Programming tracks	12
Programming files (For audio file only)	13
Random play	13
Repeat play	13
Intro scan	14
Changing the display of the disc/ USB device information	14
Using the radio	15
Tuning in radio stations	15
Storing preset	15
Tuning to a preset radio station	15
Using RDS (Radio Data System)	15
Changing the RDS display information	16
Tuning by Program TYPe (PTY search)	16
Using the cassette	17
Playing a cassette tape	17
Recording on a cassette tape	17
Clock/timer operation	19
View clock	19
Clock setting	19
Timer setting	19
To activate/deactivate the timer	20
Sleep timer setting	20

General information	21
Maintenance	21
In case of difficulty	22
Specifications	23

Unpacking

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

AM loop antenna	(1)
Remote control unit	(1)
Battery (AAA/R3)	(2)

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

Keep this manual handy for future reference.

Connections

Connecting the AM antenna

Set up the AM loop antenna, and then connect it to AM ANT terminal on the back.

Place the antenna where AM broadcast can be received.

For the FM antenna

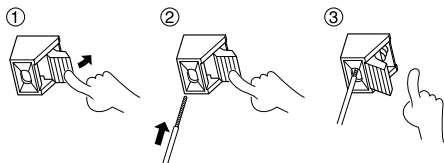
Adjust the position of the FM antenna for the best reception and fix it.

Speakers connection

1 Connect the right speaker to terminal marked "R", with the red wire to + and the black wire to -.

2 Connect the left speaker to terminal marked "L", with the red wire to + and the black wire to -.

Clip the stripped portion of the speaker wire as shown.



- For optimal sound performance, it is recommended to use the supplied speakers.
- Do not connect more than one speaker to any one pair of +/- speaker terminals.

⚠ CAUTION


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

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

Top panel : 50 cm Back panel : 10 cm

Preparing the remote control unit

Operation

When the power cord is plugged in, **standby** indicator is lit. The power turns ON by pressing  button on the remote control unit pointing at the remote sensor. When the power comes on, press the button you want to operate.

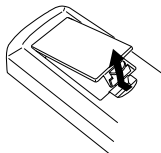


- The supplied battery may have shorter live than ordinary battery due to use during operation checks.
- When the remote-controllable distance gets shorter than before, replace the battery with a new one.
- Placing the remote sensor in direct sunlight, or in direct light from a high frequency fluorescent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

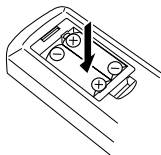
Loading batteries

Use two "AAA"/"R3"-size batteries.

1 Remove the cover.



2 Insert batteries.



3 Close the cover.

⚠ CAUTION

For Main Plug : Mains plug is used as the disconnect device. It shall remain readily, operable and should not be obstructed during intended use.

About MP3 and WMA

The playable MP3/WMA file (hereafter called **Audio file**) and the media format has the following limitation. The Audio file, which is not conforming to the specification, may not play normally, or the file and folder names may not display correctly.

Playable Audio file : MP3, WMA



- Attach the correct extension for the Audio file. (MP3: ".MP3"; WMA: ".WMA")
- Do not attach the extensions to files other than the Audio file. If the extension is attached, the file, which is not the Audio file, will play and outputs a loud noise, causing damage to the speaker.
- The files with copy protection cannot be played.
- Audio files cannot be played depending on the encoding software setting, USB device type, and/or recording conditions.
- The unit may not be compatible with upgrade of compression format standard and additional specifications.

Playable MP3 file

- MPEG 1/2 Audio Layer 3 file
- Transfer bit rate: 8/ 16/ 24/ 32/ 40/ 48/ 56/ 64/ 80/ 96/ 112/ 128/ 144/ 160/ 192/ 224/ 256/ 320 kbps
- Sampling frequency: 48/ 44.1/ 32/ 24/ 22.05/ 16/ 12/ 11.025/ 8 kHz

Playable WMA file

- The file in accordance with Windows Media Audio 9
- Transfer bit rate: 32-192 kbps
- Sampling frequency: 48/ 44.1/ 32 kHz

Playable storage media

- CD-ROM, CD-R, CD-RW
- USB device (USB version 1.1/2.0)



- CD-RW discs which are quick formatted by the writing software cannot be used.
- When recording to the maximum CD-R/RW media capacity at once, the writing software is set to "Disc at once".
- For details on the available USB devices, refer to <About USB device> (page 7).

Playable CD-R/RW format

- ISO 9660 Level 1/2
- Joliet

Playable file format of USB device

- For the formats supported by USB devices, refer to <About USB device> (page 7).

The maximum number of characters for display

- File/Folder name: 30/30 characters
- MP3 ID3 Tag/ WMA Contents property: 30 characters
(The information which can be displayed with this unit: title, artist name, and album name)



- File/Folder name is the number of the characters including the extensions.
- This unit can display the following versions of MP3 ID3 tag: version 1.0/ 1.1/ 2.2/ 2.3

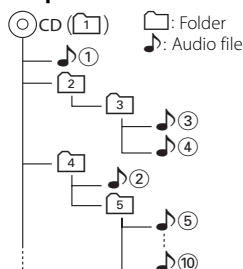
Limitation of structure for the file and the folder

- Maximum number of folders (including root folder)
CD-ROM, CD-R, CD-RW: 256
USB device: 999
- Maximum number of files per folder (including the number of folders)
CD-ROM, CD-R, CD-RW: 512
USB device: 999

Playing order of the audio file

- Audio files are played in the order the files are written. You can specify the order of playback by numbering files in a folder and writing them by folder.

Example

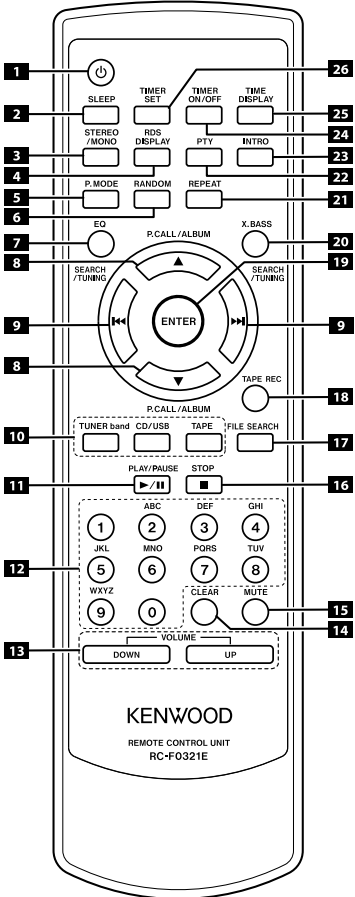


Playing order

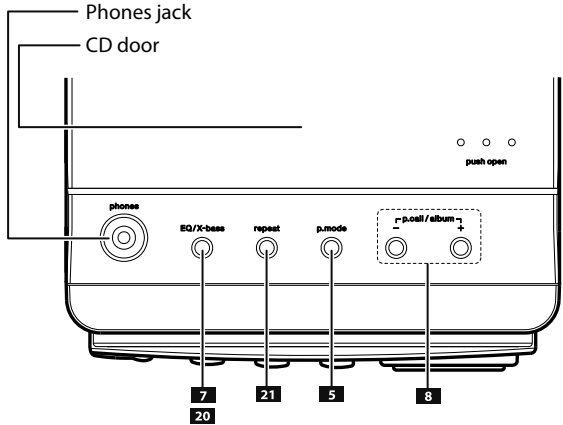
Playing order after ① play:

➡ ②, ③, ④, ⑤...

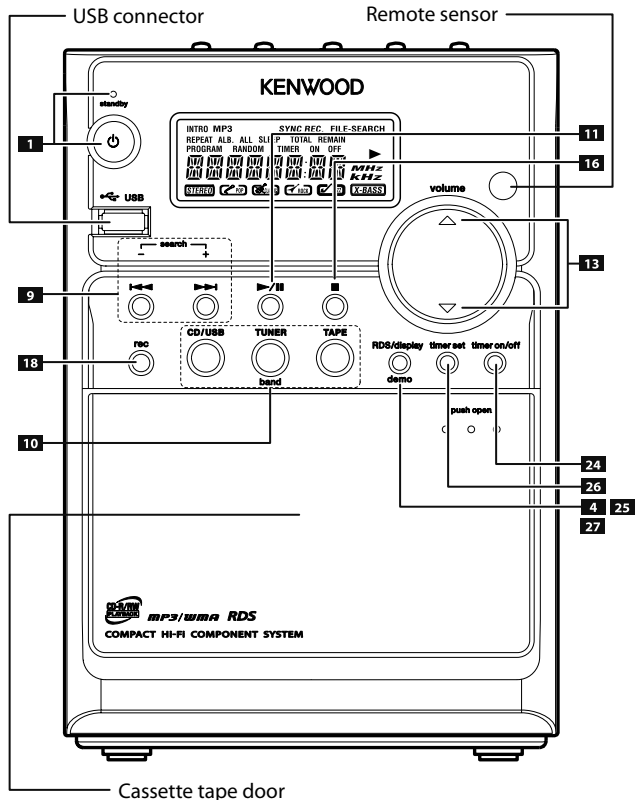
Names and functions of parts




Top view



Front view



Buttons both on the remote control unit and the unit

- 1**  button
To switch the system on or to standby mode.
standby indicator (on the main unit only)
- 4** **RDS DISPLAY (RDS/display)** button
To change the display for RDS.
- 5** **P.MODE (p.mode)** button
To program tracks/files for CD/USB.
To program preset radio stations for TUNER.
To set or reset clock.
To set or reset timer.
- 7** **EQ (EQ/X-bass)** button
To select the desired sound effect : POP, CLASSIC, ROCK, JAZZ, or FLAT (off).
- 8** **P.CALL/ALBUM ▲/▼ (p.call/album +/-)** buttons
To select a preset radio station for TUNER.
To select an album of audio files.
- 9** **SEARCH/TUNING ◀◀/▶▶ (◀◀/▶▶) search +/-) buttons**
To search forward/backward to next/previous track for CD.
To skip tracks for CD.
To search forward/backward or to skip to the next/previous files for audio files.
To fast forward or rewind a tape.
To tune to higher/lower radio frequency or search radio stations for TUNER.
To set the hour and minutes for clock.
To set timer function for timer.
- 10** **Source buttons**
To select the source you wish, or to turn the system on to the selected source.
- 11** **PLAY/PAUSE ▶/II (▶/II) button**
To start or interrupt playback for CD, USB and TAPE.
- 13** **VOLUME UP/DOWN (volume ▲/▼) buttons**
To increase or decrease the volume.
- 16** **STOP ■ (■) button**
To stop playback for CD, USB and TAPE.
To stop program for CD and USB.
- 18** **TAPE REC (rec) button**
To record from TUNER, CD or USB to a cassette tape.
- 20** **X.BASS (EQ/X-bass) button**
To switch on/off bass enhancement.
- 21** **REPEAT (repeat) button**
To repeat one track/file or all tracks/files for CD and USB.
- 24** **TIMER ON/OFF (timer on/off) button**
To switch the timer on/off.

- 25** **TIME DISPLAY (RDS/display) button**
To view the current status of the system.
To change the time display for CD.
To change the information display for audio files.
- 26** **TIMER SET (timer set) button**
To view the clock or set the clock.

Buttons only on the remote control unit

- 2** **SLEEP button**
To select the sleep time.
- 3** **STEREO/MONO button**
To switch between stereo mode and mono mode (on FM band only) for TUNER.
- 6** **RANDOM button**
To playback in random order for CD and USB.
- 12** **digit 0 – 9/A – Z buttons**
To select a track/file number for CD/USB.
To select a preset radio station for TUNER.
To enter file names in file search mode for audio files.
- 14** **CLEAR button**
To delete the file name entered during file search.
- 15** **MUTE button**
To interrupt and resume sound reproduction.
- 17** **FILE SEARCH button**
To select a desired file in audio files.
- 19** **ENTER button**
To confirm the selection in file search mode for audio files.
- 22** **PTY button**
To carry out PTY search.
- 23** **INTRO button**
To play first several seconds for each track/file of CD and USB.

Buttons only on the unit


- 27** **(demo) button**
To activate/deactivate the demonstration in power on mode.

Standby mode

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

Basic function

Demonstration mode

The system is equipped with a demonstration function (only display). When the power cable is plugged in and  button is pressed to turn the system on for the first time, the demonstration automatically starts. The demonstration consists of sequential change of display and indicators showing the operations, but the audio itself does not change. The demonstration function can be cancelled as follows.

To deactivate the demonstration

Press and hold (demo) button on the unit for more than 1 second during demonstration.

To activate the demonstration

After turning the power on, press (demo) button on the unit for more than 1 second.



- The demonstration operates automatically when; a power has failed and then recovered, or the plug of the power cable has been pulled out while the power was on and then plugged back in.


Switching the system on

Press , CD/USB (CD/USB), TUNER band (TUNER band) or TAPE (TAPE) button.

The **standby** LED will go out.

The system will switch to the last selected source or the selected source.

Switching the system to standby mode

Press  button.

The clock is displayed.

Volume control

Press **VOLUME UP** (volume Δ) button to increase, or **VOLUME DOWN** (volume ∇) to decrease the volume level.

“VOL XX” is displayed. “VOL XX” denotes the volume level.

To switch off the volume temporarily

Press **MUTE** button.

Playback continues without sound, and the icon “MUTE” appears on the display.



- To restore the volume, press **MUTE** button again or adjust the volume.

Sound control

The sound control system feature enables you to enjoy special sound effects; preset equalizer settings and bass enhancement, providing the best music reproduction.

To switch on preset equalizer settings

Press **EQ** (EQ/X-bass) button to select the desired sound effect: POP, CLASSIC, ROCK, JAZZ or FLAT (off).

To switch on the bass enhancement

Press and hold **X.BASS** (EQ/X-bass) button until the icon “X-BASS” appears on the display.



- To switch off X-BASS, press and hold **X.BASS** (EQ/X-bass) button until the icon “X-BASS” disappears.
- EQ and X-BASS functions are not applied to the recording sound.

Headphones

To listen to your stereo with headphones (not included), use the 3.5 mm phones jack on the top of the unit.



- Excessive sound pressure from earphones and headphones can cause hearing loss.

Using the CD/MP3-CD/WMA-CD/USB device

Preparation

Loading a disc

- 1 Press **CD/USB (CD/USB) button** to select **CD mode**.
- 2 Press the area marked **[push open]** on the top cover to open the CD door.
- 3 Place a disc into the tray with the label facing up.
Push surrounding of the disc center hole until it is locked to the center part of the tray.
- 4 Close the CD door.

For a normal CD, the total playtime and total number of tracks will appear in the display. For an MP3-CD and WMA-CD, the total album number and total file number will appear on the display.



- To remove the disc, press the area marked **[push open]**, grasp the disc by its edges, and carefully pull it out.

Inserting a USB device

- 1 Press **CD/USB (CD/USB) button** to select **USB mode**.
- 2 Insert a USB device to the USB connector on the front panel.
Playback automatically starts.



- To ensure good system performance; wait until the unit completely reads the disc/USB device before proceeding.
- If the disc compartment is not loaded with a disc, "NO DISC" is displayed. If the disc is unreadable, "NO PLAY" is displayed.
- If no USB device is inserted, "NO USB" is displayed. If the USB device is unreadable, "NO DATA" is displayed.
- For audio files, reading time may exceed 10 seconds due to the large number of songs compiled into one disc/USB device.
- For audio files, "A" on the display represents ALBUM.
- For audio files, the total album number on the display indicates the number of all the albums recorded in the disc/USB device.
- The icon "MP3" appears only when an MP3-file is played. It does not appear when playing a WMA-file.

Playing a disc/USB device

Press **PLAY/PAUSE ►/II (►/II)** button to start playback.

The track/file number and elapsed playing time of the current track/file appear on the display.



- To interrupt playback, press **PLAY/PAUSE ►/II (►/II)** button. The playing time starts flashing.
To resume playback, press **PLAY/PAUSE ►/II (►/II)** button again.
- To stop playback, press **STOP ■ (■)** button.

Selecting a desired track/passage

To select a desired track

Press **SEARCH/TUNING ◀◀ or ▶▶ (◀◀ or ▶▶) search +/-** button repeatedly until the desired track appears on the display.



- If playback is stopped, press **PLAY/PAUSE ►/II (►/II)** button to start playback.
- The digit buttons, 0–9 on the remote control unit can also be used to select a track.
Press the digit buttons as shown below:
To select track 2 : **2** and **ENTER**
To select track 23 : **2**, **3** and **ENTER**
To select track 120 (Audio file only) : **1**, **2** and **0**

To search for a particular passage during playback

Press and hold **SEARCH/TUNING ◀◀ or ▶▶ (◀◀ or ▶▶) search +/-** button and released it when the desired passage is located.

Selecting a desired album/file (For audio file only)

To select a desired album

Press P.CALL/ALBUM ▲ or ▼ (p.call/album + or -) button until the desired album number appears on the display.

"Axxx xxx" appears on the display. "Axxx" indicates album number and "xxx" indicates the file number.

To select a desired file

Press SEARCH/TUNING |◀◀ or ▶▶| (|◀◀ or ▶▶| search +/-) button repeatedly until the desired file from the current album appears on the display.

"Axxx xxx" appears on the display. "Axxx" indicates album number and "xxx" indicates the file number.



- The digit buttons, 0–9 on the remote control unit can also be used to select a file.

To search a desired file by file name

1 In stop mode, press FILE SEARCH button.

The icon "FILE SEARCH" appears on the display.

2 Press the digit buttons A-Z to input the first character of the file name you wish to search.

3 Press ENTER button.

"A" appears and flashes on the next of the first character.

4 Repeat step 2 and 3 to enter the characters until the one before the last character.

5 For the last character, press the digit buttons A-Z to input.

6 Press FILE SEARCH button.

"SEARCH" appears on the display.

7 Press PLAY/PAUSE ▶/|| (▶/||) button to start playback.



- If the unit finds an appropriate file, the album number and track number will be displayed. Press **TIME DISPLAY (RDS/display)** button. The file name will be scrolled on the display.
- If there is no appropriate file, "NO FILE" is appeared.

Programming tracks

Programming tracks of a disc is possible when playback is stopped. Up to 60 tracks can be stored in the memory in any order.

1 In stop mode, press P.MODE (p.mode) button to enter program setting.

The icon "PROGRAM" and "-- P-01" appears on the display. "--" indicates track number and "P-01" indicates program number.

The icon "PROGRAM" starts flashing.

2 Press SEARCH/TUNING |◀◀ or ▶▶| (|◀◀ or ▶▶| search +/-) button to select the desired track.

The program number starts flashing.

3 Press P.MODE (p.mode) button to store the selected track.

The track number returns to "--" and the next program number appears on the display.

4 Repeat steps 2 to 3 to select and store other desired tracks in this way.

The icon "PROGRAM" appears on the display.

5 Press PLAY/PAUSE ▶/|| (▶/||) button to play the programmed tracks.



- The digit buttons, 0–9 on the remote control unit can also be used to select tracks.
- "FULL" starts flashing if you attempt to program more than 60 tracks.
- To review the program sequence, press **P.MODE (p.mode)** button in stop mode.
- If you press **REPEAT (repeat)** button during programmed playback, the current track or all programmed tracks is/are played repeatedly.
The icon "REPEAT" or "REPEAT ALL" and the icon "PROGRAM" appear on the display.

Programming files (For audio file only)

Programming files of an MP3-CD/WMA-CD/USB device is possible when playback is stopped. Up to 60 files can be stored in the memory in any order.

1 In stop mode, press P.MODE (p.mode) button to enter program setting.

The icon "PROGRAM" and "-- -- P-01" appear on the display. "-- --" indicates file number of the disc/USB device and "P-01" indicates program number. The icon "PROGRAM" starts flashing.

2 Press P.CALL/ALBUM ▲ or ▼ (p.call/album + or -) to select the desired album and press SEARCH/TUNING |◀◀ or ▶▶| (|◀◀ or ▶▶| search +/-) button to select the desired file.

The program number starts flashing.

3 Press P.MODE (p.mode) button to store the selected file.

The file number returns to "-- --" and the next program number appear on the display.

4 Repeat steps 2 to 3 to select and store other desired files in this way.

The icon "PROGRAM" appears on the display.

5 Press PLAY/PAUSE ▶/|| (▶/||) button to play the programmed files.



- The digit buttons, 0-9 on the remote control unit can also be used to select files.
- "FULL" starts flashing if you attempt to program more than 60 files.
- Audio files can only be programmed within the same source.
- To review the program sequence, press P.MODE (p.mode) button in stop mode.
- If you press REPEAT (repeat) button during programmed playback, the current file or all programmed files is/are played repeatedly.
The icon "REPEAT" or "REPEAT ALL" and the icon "PROGRAM" appear on the display.

To clear the program

Press STOP ■ (■) button once in stop mode, and twice during program playback.

The icon "PROGRAM" disappears from the display.



- "P" represents PROGRAM.
- The program is automatically cleared as soon as the CD door is opened.
- The function of program setting cannot be used in PLAY/PAUSE mode.

Random play

You can play all the tracks/files in random order.

1 During playing, pause or stop mode, press RANDOM button to enable random play mode.

The icon "RANDOM" appears on the display.

2 To exit random mode, press RANDOM button again.

The icon "RANDOM" disappears from the display.



- If the program function or the repeat function is on, random play cannot be used.

Repeat play

You can play the current track/file/album or the whole disc/USB device repeatedly.

To repeat all the tracks/files

Press REPEAT (repeat) button once in play or pause mode.

The icon "REPEAT ALL" appears on the display.



- All tracks/files are repeated continuously.
- To cancel repeat play, press REPEAT (repeat) button twice for a normal CD and 3 times for audio files.

To repeat a single track/file

Press REPEAT (repeat) button twice for a normal CD and 3 times for audio files in play or pause mode.

The icon "REPEAT" appears on the display.



- To cancel repeat play, press REPEAT (repeat) button once.

To repeat one album (For audio file only)

Press REPEAT (repeat) button twice in play or pause mode.

The icon "REPEAT ALB." appears on the display.



- To cancel repeat play, press REPEAT (repeat) button twice.
- This function cannot be used in program mode.

Intro scan

This function let you listen to the first 10 seconds of each track/file throughout the disc/USB device.

Press INTRO button to start scanning.

The icon "INTRO" appears on the display.

To stop the intro scan

Press INTRO button again.

The unit enters normal play mode and starts playing from where you stop the scanning.

Changing the display of the disc/USB device information

Pressing **TIME DISPLAY (RDS/display)** button shows various display information of the disc/USB device, such as time information of the current track or a whole disc, program number during program play, file and artist name of audio files, and etc.

Using the radio

Tuning in radio stations

- 1 Press **TUNER band (TUNER band)** button to select the desired waveband: **FM** or **AM**.
- 2 Press and hold **SEARCH/TUNING** **◀◀** or **▶▶** (**◀◀** or **▶▶** **search +/-**) button to tune in to the desired frequency.



- To tune to a weak station, briefly press **SEARCH/TUNING** **◀◀** or **▶▶** (**◀◀** or **▶▶** **search +/-**) button repeatedly until the display shows the desired frequency or when the best reception has been obtained.

Storing preset

You can store up to 20 for FM and 20 for AM radio stations in the memory. When a preset radio stations selected, the preset number appears on the display.

- 1 Press **TUNER band (TUNER band)** button to select the desired waveband: **FM** or **AM**.
- 2 Press **SEARCH/TUNING** **◀◀** or **▶▶** (**◀◀** or **▶▶** **search +/-**) button to tune in to the desired frequency.
- 3 Press **P.MODE (p.mode)** button so that “- -” starts flashing.
- 4 If you wish to store the radio station to another preset number, press **P.CALL/ALBUM** **▲** or **▼** (**p.call/album + or -**) to select the desired preset number.
- 5 Press **P.MODE (p.mode)** button again to store the radio station.
- 6 Repeat steps 2 to 5 to store other preset radio stations.



- During program, if no button is pressed within 20 seconds, the system will exit program mode automatically.

Tuning to a preset radio station

Press **P.CALL/ALBUM** **▲** or **▼** (**p.call/album + or -**), or digit buttons, **0–9** on the remote control unit to select the desired preset number.

The preset number and radio frequency appear on the display.

STEREO/MONO

Press the **STEREO/MONO** button to select mono or stereo mode.

When stereo mode is selected, the icon “STEREO” appears on the display (if current station is FM stereo).



- You are able to select stereo or mono mode in FM band only.

Using RDS (Radio Data System)

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

RDS functions

PTY (Program TYpe Identification) Search:

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

PS (Program Service Name) Display:

Automatically displays the station name transmitted by the RDS station.

Radio Text function:

Displays the radio text data transmitted by some RDS stations when you press the **RDS DISPLAY (RDS/display)** button. There is “NO TEXT” display if no text data is transmitted.

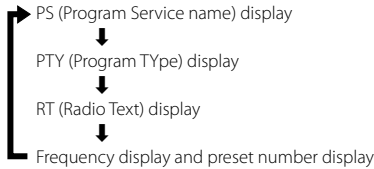


- Some functions and function names may differ in certain countries and areas.

Changing the RDS display information

While receiving a RDS station, pressing the **RDS DISPLAY (RDS/display)** button changes the contents of the display.

Every time the button is pressed, the display changes in the following order:



Tuning by Program Type (PTY search)

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

1 Press TUNER band (TUNER band) button to select FM.

2 Press PTY button.

If the current station is with RDS, the program type of the station is displayed.

3 Press PTY button to select your desired program type.

Program type table

Program Type Name	Display
News	NEWS
Current Affairs	AFFAIRS
Information	INFO
Sport	SPORT
Education	EDUCATE
Drama	DRAMA
Culture	CULTURE
Science	SCIENCE
Varied Speech	VARIED
Pop Music	POP M
Rock Music	ROCK M
Easy Music	EASY M
Light Classical Music	LIGHT M
Serious Classical Music	CLASSICS
Other Music	OTHER M
Weather	WEATHER
Finance	FINANCE
Children's Program	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

4 Press SEARCH/TUNING |◀◀ or ▶▶| (|◀◀ or ▶▶| search +/-) button to start searching.



- Under certain receiving conditions, it may take more than 1 minute to complete the search.
- If the desired program type cannot be found, "NO MATCH" is displayed, then after several seconds the display returns to the original display.

Using the cassette

Playing a cassette tape

- 1 Press **TAPE (TAPE)** button to **TAPE**.
- 2 Press the area marked [push open] to open the cassette tape door.
- 3 Insert cassette tape into the compartment with the open edge facing down.
- 4 Close the door securely.
- 5 Press **SEARCH/TUNING** |◀◀ or ▶▶| (|◀◀ or ▶▶| search +/-) button to move tape to the desired starting point.
- 6 Press **PLAY/PAUSE** ▶/|| (▶/||) button to begin playing the tape.

Recording on a cassette tape

You can record from a radio, a disc, or a USB device.

For the best recording, use a normal bias tape (Type 1 only).

Recording from a radio

- 1 Insert a cassette tape into the tape compartment and close the door.
- 2 Press **TUNER band (TUNER band)** button to **TUNER** and select a radio station.
- 3 Press **TAPE REC (rec)** button to set the unit into recording standby mode.
The icon "REC." appears on the display.
- 4 Press **PLAY/PAUSE** ▶/|| (▶/||) button to begin recording.



- To end recording, press **STOP** ■ (■) button.

Radio recording tip

To temporarily pause the recording, press **TAPE REC (rec)** button. Press **PLAY/PAUSE** ▶/|| (▶/||) button to resume recording.

Recording from a CD/MP3-CD/WMA-CD/USB device

- 1 Insert a blank cassette tape into the tape deck.
- 2 Press the desired source button to select the source you wish to record from.
For CD/MP3-CD/WMA-CD : Press **CD/USB (CD/USB)** button to select CD input.
For USB device : Press **CD/USB (CD/USB)** button to select USB input.
- 3 Insert a disc or a USB device and make sure that the unit is in stop mode.
- 4 Press **SEARCH/TUNING** |◀◀ or ▶▶| (|◀◀ or ▶▶| search +/-) button to select the first track/file you want to record.
- 5 Press **TAPE REC (rec)** button to set the unit into recording standby mode.
The icon "REC." appears on the display.
- 6 Press **PLAY/PAUSE** ▶/|| (▶/||) button to begin recording.
The icon "SYNC" appears on the display.



- To ensure good system performance, wait until the unit completely reads the disc/USB device before recording.
- To interrupt recording, press **TAPE REC (rec)** button. Press **PLAY/PAUSE** ▶/|| (▶/||) button to resume recording.
- To end recording, press **STOP** ■ (■) button.
- For a CD/MP3-CD/WMA-CD : If you perform step 5 and 6 during playback, the recording will start from the beginning of the current track/file.
- During recording, it is not possible to listen to another source.

Program recording from a CD/MP3-CD/WMA-CD/USB device

Desired CD tracks/MP3 files/WMA files can be programmed in the desired sequence and recorded onto a tape.

1 Insert a blank cassette tape into the tape deck.

2 Press the desired source button to select the source you wish to record from.

For CD/MP3-CD/WMA-CD : Press **CD/USB (CD/USB)** button to select CD input.

For USB device : Press **CD/USB (CD/USB)** button to select USB input.

3 Insert a disc or a USB device and make sure that the unit is in stop mode.

4 Program the desired sequence of CD tracks/MP3 files/WMA files.

See page 12 and 13 for programming procedure.

5 Press TAPE REC (rec) button to set the unit into recording standby mode.

The icon "REC." appears on the display.

6 Press PLAY/PAUSE ►/|| (►/||) button to begin recording.

The icon "SYNC" appears on the display.



- To end recording, press **STOP ■ (■)** button.

Clock/timer operation

View clock

The clock (if it is set) is shown in standby mode.

To view the clock in any source mode, press **TIMER SET (timer set)** button. The clock will be displayed.

If the clock has not been set, "0:00" starts flashing.

Clock setting

Before carrying out the clock setting, ensure that the system is in standby mode.

- 1 Press **P.MODE (p.mode)** button to enter the hour setting mode.
The hour indication will start flashing.
- 2 Press **SEARCH/TUNING** |◀◀ or ▶▶| (|◀◀ or ▶▶| search +/-) button to set the hours.
- 3 Press **P.MODE (p.mode)** button to enter the minute setting mode.
The minute indication starts flashing.
- 4 Press **SEARCH/TUNING** |◀◀ or ▶▶| (|◀◀ or ▶▶| search +/-) button to set the minutes.
- 5 Press **P.MODE (p.mode)** button to store the setting.



- The clock setting will be erased when the power cord is disconnected or a power failure occurred.
- The clock can be set in either 12 or 24-hour mode. To change the mode: When the system is in standby mode, press **(p.mode)** button while pressing **(■)** button.

Timer setting

The system can switch on to CD, USB, TUNER or TAPE mode automatically at a preset time, serving as an alarm to wake you up.

The timer recording of radio programs onto a cassette tape is also possible.

Important!

Before setting the timer, ensure that the clock is set correctly.

When setting the timer (playback or recording) for TUNER, be sure to select the station you wish to tune in beforehand.

- 1 Turn the system on.
- 2 Press **TIMER SET (timer set)** button twice to enter timer setting mode.
The icon "TIMER ON" starts flashing on the display.
- 3 Press **P.MODE (p.mode)** button.
The hour indication starts flashing.
- 4 Set the time to start playback.

Press **SEARCH/TUNING** |◀◀ or ▶▶| (|◀◀ or ▶▶| search +/-) button to set timer start hours and press **P.MODE (p.mode)** button to store the setting. Repeat the same procedure to set the minutes.
- 5 Press **TIMER SET (timer set)** button.
The icon "TIMER OFF" starts flashing.
- 6 Repeat the step 3 and 4 to set the time to stop the timer (off time).
- 7 Press **TIMER SET (timer set)** button.
The icon "TIMER" flashes and the source display appears.
- 8 Press **P.MODE (p.mode)** button.
- 9 Press **SEARCH/TUNING** |◀◀ or ▶▶| (|◀◀ or ▶▶| search +/-) button to select the desired source and press **P.MODE (p.mode)** button to store the setting.

The source switches as follows :
"CD" → "USB" → "TUNER" → "TAPE" → "REC TU"
(recording tuner)

continued to next page

10 Press TIMER SET (timer set) button.

The icon "TIMER" flashes and the volume display appears.

11 Press P.MODE (p.mode) button.

12 Press SEARCH/TUNING |◀◀ or ▶▶| (|◀◀ or ▶▶| search +/-) button to set volume level and press P.MODE (p.mode) button to store the setting.

13 Press TIMER SET (timer set) button.

14 Press TIMER ON/OFF (timer on/off) button to activate timer mode.

The icon "TIMER" changes from flashing to steadily lit.

The timer is now set.

15 Switch the system to standby mode.



- When reached the preset timer, the selected source will play or switch to standby mode after the timer has been activated.

To activate/deactivate the timer

Press TIMER ON/OFF (timer on/off) button.

If activated, the icon "TIMER" appears on the display.



- The timer off will not be activated if the starting and stopping time are the same.
- If the selected source ("CD"; "USB"; "TAPE" or "REC TU") is not available when preset timer is reached, TUNER will be selected automatically.
- During timer setting, if no button is pressed within 7 seconds, the system will exit timer setting mode automatically.

Sleep timer setting

If the sleep timer is activated, the system will switch to standby mode after the selected time has expired.

Each press of the SLEEP button decreases the timer period by 10 minutes. The sleep timer can be set up to 90 minutes.


The icon "SLEEP" appears on the display.

The display will change to sleep time display and change as follows:

90 min - 80 min - 70 min - 60 min - 50 min - 40 min
- 30 min - 20 min - 10 min - OFF - 90 min - 80 min...

While sleep mode is in active:

To deactivate the sleep timer

Press SLEEP button or press  button to turn the power off.



- If timer off and the sleep off are all activated, the system will switch to standby mode by the earlier timer set.

General information

Maintenance

Cleaning the cabinet

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasive.

Cleaning discs

- When a disc becomes dirty, clean it with a cleaning cloth, wipe the disc from the center out. Do not wipe in circular motion.
- Do not use solvents such as benzene, thinner commercially available cleaners, or antistatic spray intended for analogue records.

Cleaning the heads and tape path

- To ensure good recording and playback quality, clean the heads, the capstans and pressure rollers after every 50 hours of tape operation.
- Use a cotton swab slight moistened with cleaning fluid.
- You also can clean the heads by playing a cleaning tape once.

Caution on condensation

Condensation (of dew) may occur inside the unit when there is a great difference in temperature between this unit and the outside. This unit may not function properly if condensation occurs. In this case, leave the unit for a few hours and restart the operation after the condensation has dried up.

Be specially cautious against condensation in the following circumstances:

When this unit is carried from one place to another across a large difference in temperature, when the humidity in the room where this unit is installed increases, etc.

Warning notice

In most cases it is an infringement of copyright to make copies of tapes or discs without the permission of the copyright owners. Anyone wishing to copy commercially available tapes or disc should contact the mechanical copyright protection society limited or the performing rights society limited.

In case of difficulty

Resetting the Microcomputer

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

When the power is on and TUNER input is selected, press and hold down the ■ button on the unit for more than 2 seconds.

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

Check that following guide for problem resolution.

General

No sound.

- ➔ Plug in AC cord securely.
- ➔ Set the VOLUME control to proper sound level.
- ➔ Make sure the source is set to the source you wish to operate.
- ➔ Pull out the headphones plug from the headphones jack.

The left and right sound outputs are reverse.

- ➔ Check the speaker connections and location.

The system displays features automatically.

- ➔ Switch off the demo operation.

The system does not operate by pressing any buttons.

- ➔ Unplug the AC cord and plug it back in.

CD player operation

"NO DISC" is displayed.

- ➔ Insert a disc correctly (label side up).
- ➔ Clean the disc.
- ➔ Use a new or readable disc.
- ➔ Wait until the moisture condensation at the lens has cleared.

USB operation

"NO USB" is displayed.

- ➔ Insert the USB device properly.

Radio reception

Noise in radio.

- ➔ Tune to a correct frequency.
- ➔ Adjust the direction of the FM antenna.
- ➔ AM antenna is built in; rotate the system to face a new direction.
- ➔ Increase the distance between the system and TV or VCR.

Cassette deck operation

Cannot record.

- ➔ Replace the tape or cover tabs with adhesive tape.
- ➔ Clean the head.
- ➔ Use only NORMAL (IEC I) tape.
- ➔ Do not use a cassette with more than 90-minute recording time, for the tape used in such a cassette is very thin and tends to cause problem such as entanglement around the pinch roller or could be easily cut off.

Timer/Clock

The timer is not working.

- ➔ Set the correct clock.
- ➔ Press the TIMER ON/OFF button to switch on the timer.
- ➔ Switch the system to standby mode.

The timer/clock is erased.

- ➔ Power has been interrupted or power cord has been disconnected. Set it again.

Remote control unit

Does not function properly.

- ➔ Replace the batteries.
- ➔ Remove the obstacles.
- ➔ Move closer to the system when using the remote control and make sure that you are pointing at unit's remote sensor.

Specifications

Main unit

Amplifier section

Rated output power
.....5.5 W + 5.5 W (1 kHz, 10% T.H.D., at 4 Ω)

Tuner section

FM tuner section
Tuning frequency range
.....87.5 MHz – 108 MHz
AM tuner section
Tuning frequency range
.....531 kHz – 1,602 kHz

CD player section

Laser.....Semiconductor laser
Over sampling.....8 fs (352.8 kHz)
Laser wave length.....760 – 800 nm
Laser power class.....Class 1 (IEC)
D/A conversion.....1 Bit

USB interface

USB standard.....USB 1.1/2.0
Maximum supply current.....500 mA
File system.....FAT 16/ 32
MP3 decode
.....Compliant with MPEG-1/2 Audio Layer-3
WMA decode
.....Compliant with Windows Media Audio 9

Cassette deck section

Track.....4-track, 2-channel stereo

General

Power consumption.....25 W
DimensionsW : 145mm (5-11/16")
H : 208 mm (8-1/4")
D : 235 mm (8-15/16")
Weight (net).....2.8 kg (6.2 lb)

Speakers

Enclosure.....Bass-reflex type
Speaker configuration
Full range.....100 mm, cone type
Impedance.....4 Ω
Maximum input level.....10 W
DimensionsW : 130 mm (5-1/8")
H : 208 mm (8-3/16")
D : 161 mm (8-5/16")
Weight (net).....1.2 kg (2.7 lb) (1 piece)

Notes:

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

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



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

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

byproducts.

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

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

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 _____

KENWOOD

Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>