KENWOOD

CD-RECEIVER

KDC-X9006U

INSTRUCTION MANUAL

Kenwood Corporation

Designed for Windows Media™

AAC

Made for iPod

SRS WOW HD

© B64-3770-00/00 (MW)

Contents

Safety precautions

⚠WARNING

To prevent injury or fire, take the following precautions:

- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- Do not watch or fix your eyes on the unit's display when you are driving for any extended period.
- Mounting and wiring this product requires skills and experience. For safety's sake, leave the mounting and wiring work to professionals.

⚠CAUTION

To prevent damage to the machine, take the following precautions:

- Make sure to ground the unit to a negative 12V DC power supply.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not place the faceplate (and the faceplate case) in areas exposed to direct sunlight, excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- To prevent deterioration, do not touch the terminals of the unit or faceplate with your fingers.
- Do not subject the faceplate to excessive shock, as it is a piece of precision equipment.
- When replacing a fuse, only use a new fuse with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- Do not apply excessive force to the open faceplate or place objects on it. Doing so will cause damage or breakdown.
- Use only the screws provided or specified for installation. If you use wrong screws, you could damage the unit.

Attach the panel while you are on the vehicle

The panel lock arm appears when the panel is removed. Therefore, the panel must be attached while the electrical system of the car is operating.

Do Not Load 8 cm (3 in.) CDs in the CD slot

If you try to load a 8 cm (3 in.) CD with its adapter into the unit, the adapter might separate from the CD and damage the unit.

About CD players/disc changers connected to this unit

Kenwood disc changers/ CD players released in 1998 or later can be connected to this unit.
Refer to the catalog or consult your Kenwood dealer for connectable models of disc changers/ CD players. Note that any Kenwood disc changers/ CD players released in 1997 or earlier and disc changers made by other makers cannot be connected to this unit.
Connecting unsupported disc changers/CD players to this unit may result in damage.
Set the "O-N" Switch to the "N" position for the applicable Kenwood disc changers/ CD players.
The functions you can use and the information that can be displayed may differ depending on the models being connected.

⚠

- You can damage both your unit and the CD changer if you connect them incorrectly.

Lens Fogging

When you turn on the car heater in cold weather, dew or condensation may form on the lens in the CD player of the unit. Called lens fogging, this condensation on the lens may not allow CDs to play. In such a situation, remove the disc and wait for the condensation to evaporate. If the unit still does not operate normally after a while, consult your Kenwood dealer.

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

The "AAC" logo is trademark of Dolby Laboratories.

中文字型由北京字研技术开发中心提供

Notes

- If you experience problems during installation, consult your Kenwood dealer.
- When you purchase optional accessories, check with your Kenwood dealer to make sure that they work with your model and in your area.
- Characters that conform to GB2312 or ISO 8859-1 can be displayed. Refer to <Selecting Chinese Characters> (page 35).
- In this document, the description indicator will light means a status is displayed. Refer to <Display Type Selection> (page 14) for the details of the status display.
- The illustrations of the display, the function icon and the panel appearing in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the display in the illustrations may differ from what appears on the display on the actual equipment, and some of the illustrations on the display may be inapplicable.

How to reset your unit

- If the unit fails to operate properly, press the Reset button. The unit returns to factory settings when the Reset button is pressed.
- Remove the USB device before pressing the Reset button. Pressing the Reset button with the USB device installed can damage the data contained in the USB device. For how to remove the USB device, refer to <Playing USB (iPod) device> (page 22).
- Stop recording and copying before pressing the reset button. If the reset button is pressed while writing to the internal memory such as when recording or copying, the data in the internal memory may be damaged. Refer to <Recording music CD> (page 28) and <Copying from USB device> (page 27) for information on canceling recording or copying.
- Press the reset button if the disc auto changer fails to operate correctly. Normal operation should be restored.

Reset button
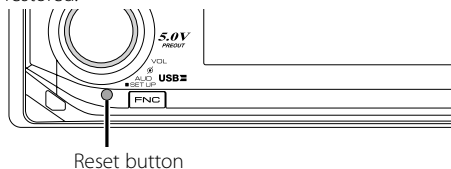
Cleaning the Unit

If the faceplate of this unit is stained, wipe it with a dry soft cloth such as a silicon cloth.
If the faceplate is stained badly, wipe the stain off with a cloth moistened with neutral cleaner, then wipe it again with a clean soft dry cloth.

⚠

- Applying spray cleaner directly to the unit may affect its mechanical parts. Wiping the faceplate with a hard cloth or using a volatile liquid such as thinner or alcohol may scratch the surface or erases characters.

Cleaning the Faceplate Terminals

If the terminals on the unit or faceplate get dirty, wipe them with a dry, soft cloth.

Before using this unit for the first time

This unit is initially set on the Demonstration mode. When using this unit for the first time, cancel the <Demonstration mode Setting> (page 37).

About KENWOOD "Music Editor" of PC application attached to KDC-X9006U

- "Music Editor" is recorded in the CD-ROM attached to this unit.
- Refer to the attached installation manual for the installation method of "Music Editor".
- Refer to the user's manual recorded in the installation CD-ROM and Help of "Music Editor" for the operation method of "Music Editor".
- The unit can play CD/ USB device created by "Music Editor".
- Information about "Music Editor" upgrade is put on the site, www.kenwood.com.

About Audio file

- **Playable Audio file**

  AAC-LC (.m4a), MP3 (.mp3), WMA (.wma),
  WAV (.wav)

- **Playable disc media**

  CD-R/RW/ROM

- **Playable disc file format**

  ISO 9660 Level 1/2, Joliet, Romeo, Long file name.

- **Playable USB device**

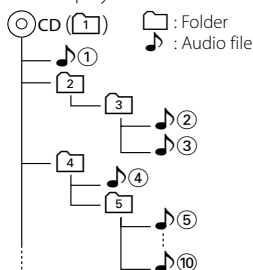 USB mass storage class, iPod with KCA-iP200

- **Playable USB device file system**

  FAT16, FAT32

Although the audio files are complied with the
standards listed above, the play maybe impossible
depending on the types or conditions of media or
device.

- **Playing order of the Audio file**

  In the example of folder/file tree shown below, the
  files are played in the order from ① to ⑩.

An online manual about audio files is put on the
site, **www.kenwood.com/audiofile/**. On this online
manual, detailed information and notes which are not
written in this manual are provided. Make sure to read
through the online manual as well.

- In this manual, the word "USB device" is used for flash
  memories and digital audio players which have USB
  terminals.
- The word "iPod" appearing in this manual indicates the iPod
  connected with the KCA-iP200 (optional accessory). The
  iPod connected with the KCA-iP200 can be controlled from
  this unit. iPods that can be connected with the KCA-iP200
  are the iPod nano and the iPod with video. When an iPod
  is connected using a commercially available USB cable, it is
  handled as a mass-storage-class device.
- For the supported formats and types of USB device, refer to
  www.kenwood.com/usb/.

About USB device

- Install the USB device in the place where it will not
  prevent you from driving your vehicle properly.
- You cannot connect a USB device via a USB hub.
- Take backups of the audio files used with this unit.
  The files can be erased depending on the operating
  conditions of the USB device.
  We shall have no compensation for any damage
  arising out of erasure of the stored data.
- No USB device comes with this unit. You need to
  purchase a commercially available USB device.
- For how to play the audio files recorded in a USB
  device, see <CD/Audio file (USB/iPod/Internal
  Memory) control features> (page 22).
- When connecting the USB device, usage of the CA-
  U1EX (option) is recommended.
  Normal playback is not guaranteed when a cable
  other than the USB compatible cable is used.
  Connecting a cable whose total length is longer
  than 5 m can result in abnormal playback.

About ODD (Offset Dual Differential) D/A System

The high quality sound play is to be done by ODD
D/A System. Dual D/A converters are built-in the ODD
D/A System, and the digital processing is isolated and
controlled separately for front channel so the channel
separation is improved sharply.

Also, the ODD D/A System produces the data by
which the sound data is offset on the minus side and
converts the two signals (original and offset data) to
the analog signal, which has less noise and distortion,
by the synthetic process.

However, ODD D/A System will be disabled if the
following settings are selected.

 - When "2 ZONE" of <Audio Setup> (page 8) is "ON".

Notes

About Bluetooth Hands free control

Refer to the instruction manual of the Bluetooth Hands Free Box KCA-BT100 (optional accessory).

However, the following control methods of the function for this unit may be different from the Instruction manual; therefore, refer to the following supplemental instruction.

<Dialing by Using the Quick Dialing Function>

1. Press the Control knob. Select the "DIAL" display.
2. Press the [FNC] button.
3. Select the number to recall by turning the Control knob.
4. Press the Control knob.

<Registering to the Preset Dial Number List>

1. Operation is the same. Refer to the instruction manual of KCA-BT100.
2. Press the [FNC] button.
3. Select the number to memory by turning the Control knob.
4. Press the Control knob for at least 1 second.

<Deleting a Registered Cell-Phone>

1–3. Operation is the same. Refer to the instruction manual of KCA-BT100.
4. Press the Control knob.
5. Select "YES" using the Control knob.
6. Press the Control knob.
7. Press the [FNC] button.

About Menu operation

For how to operate Menu, refer to <Menu System> in this instruction manual. For the items to be set up, refer to the instruction of Hands Free Box.

About display of Cell-Phone Status

Cell-Phone Status is displayed in the status display of this unit. For the information about the displayed icons, refer to the instruction manual of Hands Free Box. Bluetooth connection status cannot be displayed.

Handling CDs

• Do not touch the recording surface of the CD.
• Do not stick tape etc. on the CD, or use a CD with tape stuck on it.
• Do not use disc type accessories.
• Clean from the center of the disc and move outward.
• When removing CDs from this unit, pull them out horizontally.
• If the CD center hole or outside rim has burrs, use the CD only after removing the burrs with a ballpoint pen etc.

CDs that cannot be used

• CDs that are not round cannot be used.
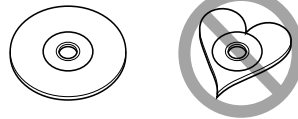
• CDs with coloring on the recording surface or CDs that are dirty cannot be used.
• This unit can only play the CDs with [disc] [disc] [disc].
  This unit may not correctly play discs which do not have the mark.
• You cannot play a CD-R or CD-RW that has not been finalized. (For the finalization process refer to your CD-R/CD-RW writing software, and your CD-R/CD-RW recorder instruction manual.)

The marking of products using lasers (Except for some areas)

**CLASS 1
LASER PRODUCT**

The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1. This means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

General features

ATT VOL Control knob

Release button FNC SRC

ATT indicator

Function icon
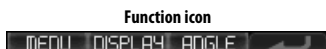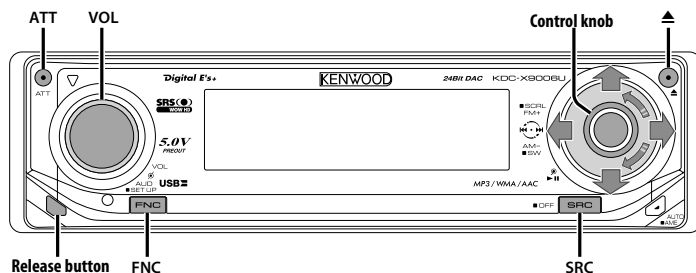
Power

Turning ON the Power
Press the [SRC] button.

✎
- When the power is ON, the <Security Code> (page 31) is displayed as "CODE ON" or "CODE OFF".

Turning OFF the Power
Press the [SRC] button for at least 1 second.

Selecting the Source

There are two types of source selection methods depending on the setting.

SRC Select mode 1:
1 Press the [SRC] button.

2 Turn the Control knob or push it towards left or right.

3 Press the Control knob.

SRC Select mode 2:
Press the [SRC] button.

Source required	Display
Tuner	"TUNER"
USB device (iPod)	"USB" ("iPod")
Internal Memory	"Internal Memory"
CD	"Compact Disc"
TV (Optional accessory)	"TV"
External disc (Optional accessory)	"CD Changer"
Auxiliary input	"AUX"
Auxiliary input (Optional accessory)	"AUX EXT"
Standby (Illumination only mode)	"STANDBY"

✎
- When connection of the iPod is recognized, the source display changes from "USB" to "iPod".
- Switch between SRC Select mode 1 and 2 in <Source Select mode> (page 31).
- USB (iPod) or Internal Memory source is recognized as CD source on the connected unit.

General features

Volume

Increasing Volume
Turn the [VOL] knob clockwise.

Decreasing Volume
Turn the [VOL] knob counterclockwise.

Attenuator

Turning the volume down quickly.

Press the [ATT] button.
Each time you press the button, the Attenuator turns ON and OFF.
When the Attenuator is ON, the "ATT" indicator blinks.

Loudness

Compensating for low and high tones during low volume. (Only the low tone is compensated for when the tuner is selected as a source.)

1 Enter Loudness mode
Using the Control knob, select "DSP" > "SND CONT" > "LOUD".
For the operation method, refer to <Function Control mode> (page 9).

2 Select the Loudness
Turn the Control knob.
Each time you push the knob, the Loudness turns ON and OFF.

3 Exit Loudness mode
Press the Control knob.

Audio Control

1 Select the source to adjust
Press the [SRC] button.
Refer to <Selecting the Source> (page 7).

2 Enter Audio Control mode
Press the [VOL] knob.

3 Select the Audio item to adjust
Press the [VOL] knob.
Each time you press the knob, the item to be adjusted alternates between the items shown in the table below.

4 Adjust the Audio item
Turn the [VOL] knob.

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Adjustment Item	Display	Range
Rear Volume	"REAR VOLUME"	0 — 35
Subwoofer level	"SUBWOOFER LEVEL"	−15 — +15
Balance	"BALANCE"	Left 15 — Right 15
Fader	"FADER"	Rear 15 — Front 15
Exit Audio Control mode (Volume control mode)		

5 Exit Audio Control mode
Press any button.
Press a button other than the [VOL] knob, [▲] and [ATT] button.

Audio Setup

Setting the Sound system, such as Volume offset and Dual Zone.

1 Select the source to adjust
Press the [SRC] button.
Refer to <Selecting the Source> (page 7).

2 Enter Audio Setup mode
Press the [VOL] knob for at least 1 second.

3 Select the Audio Setup item to adjust
Press the [VOL] knob.
Each time you press the knob, the item to be adjusted alternates between the items shown in the table below.

4 Setup the Audio item
Turn the [VOL] knob.

Adjustment Item	Display	Range
Volume offset	"VOLUME OFFSET"	−8 — ±0 (AUX: -8— +8)
Dual Zone System	"2 ZONE"	ON/OFF

{≡}
- Volume offset: Sets each source's volume as a difference from the basic volume.
- Dual Zone System
  Main source and sub source (Auxiliary input) output Front channel and Rear channel separately.
  - Set up the channel of sub source by <Dual Zone System Setting> (page 33).
  - Select Main source by [SRC] button.
  - Adjust the volume of Front channel by [VOL] knob.
  - Adjust the volume of Rear channel by <Audio Control> (page 8).
  - The DSP Control will be disabled.
- You can use the Dual Zone System only when you have set the rear speaker to any mode other than "None" in the <Sound Management system> (page 10).

5 Exit Audio Setup mode
Press the [VOL] knob for at least 1 second.

Subwoofer Output

Turning the Subwoofer output ON or OFF.

Push the Control knob toward down for at least 2 seconds.
Each time you push the knob, Subwoofer output switches ON and OFF.
When it is ON, "SUBWOOFER ON" is displayed.

In Audio file source

Supreme Setting

When AAC, MP3 or WMA files encoded at a low bit rate (less than 128kbps (fs=44.1k, 48kHz)) are played, this function restores their high frequency region to approach the sound quality of equivalents of these files encoded at a high bit rate. Processing is optimized for the compression format used (AAC, MP3, or WMA), and adjustment is made for the bit rate used.

1 Enter Supreme Setting mode
Using the Control knob, select "DSP" > "SND CONT" > "Supreme".
For the operation method, refer to <Function Control mode> (page 9).

2 Select the Supreme
Turn the Control knob or push it towards left or right.

Display	Setting
"Supreme ON"	Plays sound using the Supreme function.
"Supreme OFF"	Plays the original sound stored in the audio file.

3 Exit Supreme Setting mode
Press the Control knob.

⊜

- The sound effect may be imperceptible depending on the relationship between the audio file format and setting.
- This function is not available on iPod.

TEL Mute

The audio system automatically mutes when a call comes in.

When a call comes in
"CALL" is displayed.
The audio system pauses.

Listening to the audio during a call
Press the [SRC] button.
The "CALL" display disappears and the audio system comes back ON.

When the call ends
Hang up the phone.
The "CALL" display disappears and the audio system comes back ON.

⊜

- To use the TEL Mute feature, you need to hook up the MUTE wire to your telephone using a commercial telephone accessory. Refer to <Connecting Wires to Terminals> (page 41).

Function Control mode

To set up various functions of this unit, select tree-structured function items.

1 Enter Function Control mode
Press the [FNC] button.

2 Select your desired setup item
Select a setup item using the Control knob.

Operation type	Operation
Movement between items	Turn the Control knob.
Selection of item	Press the Control knob.
Return to previous item	Press the [FNC] button.

Functions of items are as follows:

Display	Icon	Function of setup item
"Menu"	"MENU"	Allows you to set up the environment. Refer to <Menu system> (page 30).
"DSP"	"DSP"	Sets the DSP function. Refer to page 10 to page 14.
"Display Select"	"DISPLAY"	Allows you to set up the display. Refer to page 14 to page 16.
"Angle Adjust"	"ANGLE"	Allows you to set the panel angle. Refer to <Angle Control> (page 18).
"Preset Memory"	"P.MEMORY"	Allows you to put stations in the memory. Refer to <Station Preset Memory> (page 20).
"File Scan" etc.	"SCAN" etc.	Allows you to set how to play the CD and audio file. Refer to <Play function of CD and Audio file> (page 24).
"Return"	" ◢ "	Returns to the previous item.

3 Select an option for the selected item
Refer to the related pages for the operation of each option.

4 Exit Function Control mode
Press the [FNC] button for at least 1 second.

English | **9**

General features

Sound Management system

1 Enter Sound Management mode
Using the Control knob, select "DSP" > "S.M.S".
For the operation method, refer to <Function Control mode> (page 9).

2 Select the Sound Management item to adjust
Turn the Control knob or push it towards left or right.
Press the Control knob.

Icon			Sound Management Item
"CABIN"			Cabin Setting
"SPEAKER"	>"FRONT"	>"LOCATION"	Speaker Location Front
		>"SIZE"	Speaker Size Front
		>"TWEETER"	Speaker Select Tweeter
	>"REAR"	>"LOCATION"	Speaker Location Rear
		>"SIZE"	Speaker Size Rear
	>"SUB-W"	>"SIZE"	Speaker Size Subwoofer
"DTA"	>"FRONT"		DTA Front
	>"REAR"		DTA Rear
	>"SUB-W"		DTA Subwoofer
"X'OVER"*	>"FRONT"		Front High Pass Filter
	>"REAR"		Rear High Pass Filter
	>"SUB-W"		Subwoofer Low Pass Filter

* The following adjustment items can be selected by up or down knob for "X'OVER".

Icon	Display	Sound Management Item
>"FRONT"	"fc"	Front High Pass Filter Cut off Frequency
	"Slope"	Front High Pass Filter Slope
>"REAR"	"fc"	Rear High Pass Filter Cut off Frequency
	"Slope"	Rear High Pass Filter Slope
>"SUB-W"	"fc"	Subwoofer Low Pass Filter Cut off Frequency
	"Slope"	Subwoofer Low Pass Filter Slope
	"Phase"	Subwoofer Low Pass Filter Phase

⌂

• "CABIN"
Set the type of vehicle for the sound position setting of the DSP.
• "SPEAKER"
Sets the size and location of the speakers.

• "DTA" (Digital Time Alignment).
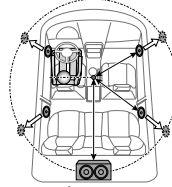
Fine tune the difference in distance between speakers set with Cabin Setting. Use together with <Position Control> (page 11)

1 Set reference point so that the front/rear positions and height are at the position of the ears of the person sitting in the front seat and the left/right position is at the center of the cabin.
2 Measure the distance from the reference point to the speaker.
3 Calculate the difference in distance with reference to the farthest speaker.

• "X'OVER" (Crossover Network Setup)
You can manually set a crossover frequency for the speakers.

3 Adjust the Sound Management item
Turn the Control knob or push it towards left or right.
Each time you push the knob, the setting alternates between the settings shown in the table below.

"CABIN"

Sound Management Item	Range
Cabin Setting	OFF/ Compact/ Full Size Car/ Wagon/ Minivan/ SUV/ Minivan(Long)

"SPEAKER"

Sound Management Item	Range
Speaker Location Front	Door/ On Dash/ Under Dash
Speaker Size Front	16cm/ 17cm/ 18cm/ 4×6/ 5×7/ 6×8/ 6×9/ 7×10/ O.E.M./ 10cm/ 13cm
Speaker Size Tweeter	None/ Use
Speaker Location Rear	• Door/ Rear Deck • 2nd Row/ 3rd Row (Minivan/ Minivan(Long))
Speaker Size Rear	16cm/ 17cm/ 18cm/ 4×6/ 5×7/ 6×8/ 6×9/ 7×10/ None/ O.E.M./ 10cm/ 13cm
Speaker Size Subwoofer	25cm/ 30cm/ 38cm Over/ None/ 16cm/ 20cm

"DTA"

Sound Management Item	Range
DTA Front/ DTA Rear/ DTA Subwoofer	0 — 290 (cm)

"X'OVER"

Sound Management Item	Range
Front High Pass Filter Cut off Frequency/ Rear High Pass Filter Cut off Frequency	Through/ 30 — 100/ 120/ 150/ 180/ 220/ 250 (Hz)
Front High Pass Filter Slope/ Rear High Pass Filter Slope/ Subwoofer Low Pass Filter Slope	-12/ -18/ -24 dB/Oct
Subwoofer Low Pass Filter Cut off Frequency	30 — 100/ 120/ 150/ 180/ 220/ 250 (Hz)/ Through
Subwoofer Low Pass Filter Phase	Normal/ Reverse

4 Exit Sound Management mode
Press the [FNC] button.

Position Control

1 Enter Position mode
Using the Control knob, select "DSP" > "SND CONT" > "POSITION".
For the operation method, refer to <Function Control mode> (page 9).

2 Select the Position item to adjust
Turn the Control knob or push it towards left or right.

Icon	Position Item
"PRESET"	Preset Position
"MANUAL"	Manual Position

3 Enter the Position item
Press the Control knob.

4 Adjust the Position item

Preset Position Setting
Push the Control knob towards right or left.
Each time you push the knob, the setting alternates between the settings shown in the table below.

Range
All/ Front-Left/ Front-Right/ Front

Manual Position Setting
1 Select the items to adjust for Position.
Push the Control knob towards up or down.

Display	Position Item
"L" "FRONT"	Front Left
"L" "REAR"	Rear Left
"L" "SW"	Subwoofer Left
"FRONT" "R"	Front Right
"REAR" "R"	Rear Right
"SW" "R"	Subwoofer Right

2 Adjust the Position.
Turn the Control knob or push it towards left or right.
Each time you push the knob, the setting alternates between the settings shown in the table below.

Range
0 — 100 (cm)

5 Exit Position mode
Press the [FNC] button.

⋛

- About the position setting
  First, set the using environment with "DTA" in <Sound Management system> (page 10).
  Preset position setting is for selecting the actual listening position.
  Manual position setting is for further adjustment of the position selected in preset position setting. This setting value can be memorized for each preset position.
- When using the Subwoofer Left and Subwoofer Right as a single sub woofer, set the left side and right side to the same value.
- Preset Position initial settings

Preset Position	Front		Rear		Subwoofer	
	Left	Right	Left	Right	Left	Right
ALL	0	0	0	0	0	0
Front-Left	0	35	0	35	0	0
Front-Right	35	0	35	0	0	0
Front	0	0	100	100	0	0

General features

Equalizer Control

1 Select the source to adjust
Press the [SRC] button.
Refer to <Selecting the Source> (page 7).

2 Enter Equalizer Control mode
Using the Control knob, select "DSP" > "SND CONT" > "EQ".
For the operation method, refer to <Function Control mode> (page 9).

3 Select the Equalizer Control item to adjust
Turn the Control knob or push it towards left or right.

Icon	Equalizer Control Item
"PRESET"	System Q Setting
"FRONT"	Equalizer Front Setting
"REAR"	Equalizer Rear Setting

4 Enter the Equalizer Control item
Press the Control knob.

5 Adjust the Equalizer control item

System Q Setting
Turn the Control knob or push it towards left or right.
Each time you push the knob, the setting alternates between the settings shown in the table below.

Display	Sound setting
"User"/ "Natural"/ "Rock"/ "Pops"/ "Easy"/ "Top40"/ "Jazz"	User/ Natural/ Rock/ Pops/ Easy/ Top 40/ Jazz

⊜
- User memory:
  The values set on the <Equalizer Front Setting/ Equalizer Rear Setting>.
- To get the best sound, first go through <Sound Management system> (page 10).

Equalizer Front Setting/ Equalizer Rear Setting
1 Select a frequency band you wish to adjust.
Turn the Control knob or push it towards left or right.
Each time you push the knob, the band alternates between "1" (Band 1) and "4" (Band 4).
2 Select the items to adjust for Equalizer.
Push the Control knob towards up or down.
Each time you push the knob, the item to be adjusted alternates between the items shown in the table below.

3 Adjust the Equalizer.
Turn the Control knob or push it towards left or right.
Each time you push the knob, the setting alternates between the settings shown in the table below.

Display	Equalizer adjustment item	Range
"F0"	Equalizer Front Center Frequency/ Equalizer Rear Center Frequency	Refer to the followings.
"Q"	Equalizer Front Quality/ Equalizer Rear Quality	0.25/ 0.50/ 1.00/ 2.00
"Gain"	Equalizer Front Level/ Equalizer Rear Level	−9/ -7/ -5/ -3/ -2/ -1/ 0/ +1/ +2/ +3/ +5/ +7/ +9
"Effect"	Equalizer Front Effect/ Equalizer Rear Effect (BAND1 only)	OFF/ ON

⊜
- The frequency which can be selected by each Frequency band is shown below.

Band	Frequency
Band1	60/ 80/ 100/ 120/ 160/ 200 Hz
Band2	250/ 315/ 400/ 500/ 630/ 800/ 1k Hz
Band3	1.25/ 1.6/ 2/ 2.5/ 3.15/ 4 kHz
Band4	5/ 6.3/ 8/ 10/ 12.5/ 16 kHz

- "Effect"
  Amplifies the range lower than the center frequency as well as the low center frequency.

4 Exit frequency band.
Press the Control knob.

6 Exit Equalizer Control mode
Press the [FNC] button.

WOW HD Control

1 Select the source to adjust
Press the [SRC] button.
Refer to <Selecting the Source> (page 7).

2 Enter WOW HD Control mode
Using the Control knob, select "DSP" > "SND CONT" > "WOW HD".
For the operation method, refer to <Function Control mode> (page 9).

3 Select the WOW HD Control item to adjust
Turn the Control knob or push it towards left or right.
Press the Control knob.

Icon		WOW HD Control Item
"PRESET"		Preset WOW HD
"FRONT"	>"FOCUS"	FOCUS
	>"TruBass"	TruBass Front
	>"Space"	SRS 3D Space Control
	>"Center"	SRS 3D Center Control
	>"Defini"	Definition Front
"REAR"	>"TruBass"	TruBass Rear
	>"Defini"	Definition Rear

4 Adjust the WOW HD control item
Turn the Control knob or push it towards left or right.
Each time you push the knob, the setting alternates between the settings shown in the table below.

WOW HD Control Item	Range
Preset WOW HD	Middle/ High/ User/ Through/ Low
FOCUS	OFF/ 1 — 9
TruBass Front/ TruBass Rear	OFF/ 1 — 9
SRS 3D Space Control	OFF/ 1 — 9
SRS 3D Center Control	-4 — Neutral — 4
Definition Front/ Definition Rear	OFF/ 1 — 9

⊜

• Preset WOW HD:
  FOCUS, TruBass, 3D Space Control, 3D Center Control and Definition are all set.
• FOCUS: Adjusts the vertical position of the front speaker and sound image by virtual adjustment.
• TruBass: Assists the playback for the super bass sound.
• SRS 3D Space Control: Adjusts the soundscape.
• SRS 3D Center Control:
  Adjusts the center image such as vocal part in music.

• Definition:
  Improves sound quality in high range and creates clear sound.

5 Exit WOW HD Control mode
Press the [FNC] button.

⊜

• To get the best sound, first go through <Sound Management system> (page 10).

Memory mode

Storing the values of DSP in memory.

1 Adjust the item you wish to put in memory
By referring to <Sound Management system> (page 10), <Position Control> (page 11), and <Equalizer Control> (page 12), adjust the item you wish to put in the memory.

2 Enter Memory mode
Using the Control knob, select "DSP" > "PRESET" > "MEMORY".
For the operation method, refer to <Function Control mode> (page 9).

3 Select the number to put in the memory
Turn the Control knob.

4 Determine whether to put the Audio Preset in the memory
Press the Control knob.
"Memory?" is displayed.

5 Put the Audio Preset in the memory
Select "YES" using the Control knob.
"Memory Completed" is displayed.

6 Exit Memory mode
Press the [FNC] button.

⊜

• "Memory 1": When you press the Reset, all the sources will be the setting value which is registered.
• "Memory 1", "Memory 2":
  The memory cannot be erased by the Reset button.
• The following items cannot be registered.
  System Q Setting

General features

Memory Recall mode

Recall the value in the memory by the memory mode.

1 Select the source to adjust
Press the [SRC] button.

2 Enter recall mode
Using the Control knob, select "DSP" > "PRESET" > "RECALL".
For the operation method, refer to <Function Control mode> (page 9).

3 Select the recall item
Select the recall number using the Control knob.
Press the Control knob.
Recall the value put by <Memory mode> (page 13).
"Recall?" is displayed.

4 Recall the Audio Preset
Select "YES" using the Control knob.
"Recall Completed" is displayed.

5 Exit Memory Recall mode
Press the [FNC] button.

Display Type Selection

Changing the display mode.

1 Enter Display Type Selection mode
Using the Control knob, select "DISPLAY" > "TYPE".
For the operation method, refer to <Function Control mode> (page 9).

2 Select the Display Type
Turn the Control knob.
Select from the following display types:

Display	Display Type
"TYPE SELECT [A]"	
"TYPE SELECT [B]"	
"TYPE SELECT [C]"	

"TYPE SELECT [D]"

3 Exit Display Type Selection mode
Press the Control knob.
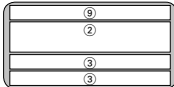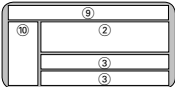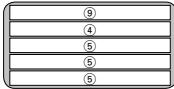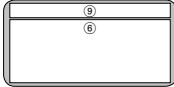
4 Enter Display Mode Selection mode (Display Type B/ Display Type C only)
Using the Control knob, select "DISPLAY" > "MODE".

5 Select the Display Mode
Turn the Control knob.
Select from the following display mode:

Mode	"TYPE SELECT [B]"	"TYPE SELECT [C]"
B-1/ C-1		
B-2/ C-2		
B-3/ C-3		

6 Exit Display Mode Selection mode
Press the Control knob.

⁄

- ①, ②, ③, ④, ⑤, ⑥, ⑦, ⑧ Text display part
  ⑨ Status display
  ⑩ Icon display part
  ⑪ Graphic display part
- To change the information by the Display Type, refer to the page on the following table for the methods to alternate by the Display Type.

Display Type	A	B-1	B-2	B-3	C-1	C-2	C-3	D
Text ①	15	—	15	—	—	15	—	—
Text ③	—	15	—	—	15	—	—	—
Text ④	—	—	15	—	—	15	—	—
Text ⑤	—	—	15	—	—	15	—	—
Text ⑥	—	—	—	15	—	—	15	—
Text ⑦	—	—	—	—	—	—	—	15
Status ⑨	15	—	—	—	—	—	—	—
Icon ⑩	—	—	—	—	16	16	16	—
Graphic ⑪	15	—	—	—	—	—	—	—

- With Display type D, text is displayed between the top and bottom rows when blank is set in the top or bottom row.
- Text display part ⑥
  If whole information cannot be displayed within four rows, hold down on [FM] of the Control knob for at least 1 second to display the remaining portion of the information.

Display Type A
Status Setting

Determine whether the On and Off statuses of various functions are to be displayed on the Display Type A.

1 Enter Status Setting mode
Using the Control knob, select "DISPLAY" > "STATUS".
For the operation method, refer to <Function Control mode> (page 9).

2 Select the Status display
Turn the Control knob.

3 Exit Status Setting mode
Press the Control knob.

Display Type A
Graphic Display Selection

Changing the graphic Display.

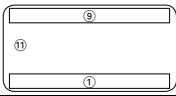**1 Enter Graphic Display Selection mode**
Using the Control knob, select "DISPLAY" > "GRAPHIC".
For the operation method, refer to <Function Control mode> (page 9).

2 Select the graphic display
Turn the Control knob or push it towards left or right.
Select from the following displays:

Graphic display	Display
Movie 1 – 2	
Spectrum analyzer 1 – 8	
Wallpaper 1 – 12	
Downloaded Wallpaper*	
Wallpaper scan	"SCAN"

* For Download Wall Paper, refer to <Picture downloading> (page 36).

3 Exit Graphic Display Selection mode
Press the Control knob.

⟨📣⟩
- During standby, Spectrum analyzer cannot be selected.

Text Display Selection

Changing the text display.

1 Enter Text Display Selection mode
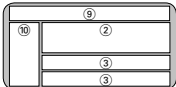**Using the Control knob, select "DISPLAY" > "TEXT".**
For the operation method, refer to <Function Control mode> (page 9).

2 Select the text
Turn the Control knob or push it towards left or right.
See <The text display> (page 16).

Select the row (only for display type with multiple rows)
Push the Control knob towards up or down.
The cursor (▶) moves to the selected text display part.

3 Exit Text Display Selection mode
Press the Control knob.

⟨📣⟩
- When LX-AMP is connected, the item setup by the Display mode of LX-AMP is displayed. (Other than B-3 or C-3 display mode)
- When the music number exceeds 1000, only the last 3 digits of its number are displayed.
- Music title, Artist name, and Album name cannot be displayed in WAV file.
- When playing music from iPod or music edited by "Music Editor", the folder name display may show something different such as playlist or artist name depending on the music selection procedure.
- Same information cannot be displayed in text display part. However, the blank display is able to have multiple selections.
- If the selected display item does not have any information, alternative information is displayed. May be blank depending on the displayed row.

General features

The text display

In Tuner source

Information	Display	Condition
Station name preset	"SNPS"	①③④
Frequency	"Frequency"	① ④
Spectrum Analyzer & Clock	"Speana/Clock"	③④⑤
Clock	"Clock"	① ⑦
Date	"Date"	①③④⑤ ⑦
Blank	"Blank"	①③④⑤ ⑦

In CD & External disc source

Information	Display	Condition
Disc title	"Disc Title"	①③④⑤⑥⑦
Track title	"Track Title"	①③④⑤⑥⑦
Track number & Play time	"P-Time"	① ④
Disc name preset	"DNPS"	①③④⑤ ⑦
Spectrum Analyzer & Clock	"Speana/Clock"	③④⑤
Clock	"Clock"	① ⑦
Date	"Date"	①③④⑤ ⑦
Blank	"Blank"	①③④⑤ ⑦

In Audio file source

Information	Display	Condition
Music title & Artist name	"Title/Artist"	①③④⑤⑥⑦
Album name & Artist name	"Album/Artist"	①③④⑤⑥⑦
Folder name	"Folder Name"	①③④⑤⑥⑦
File name	"File Name"	①③④⑤⑥⑦
Play time & Music number	"P-Time"	① ④
Spectrum Analyzer & Clock	"Speana/Clock"	③④⑤
Clock	"Clock"	① ⑦
Date	"Date"	①③④⑤ ⑦
Blank	"Blank"	①③④⑤ ⑦

In Standby

Information	Display	Condition
Standby	"Source Name"	① ④
Clock	"Clock"	①③④⑤ ⑦
Date	"Date"	①③④⑤ ⑦
Blank	"Blank"	①③④⑤ ⑦

In Auxiliary input source

Information	Display	Condition
Auxiliary input name	"Source Name"	① ④
Spectrum Analyzer & Clock	"Speana/Clock"	③④⑤
Clock	"Clock"	① ⑦
Date	"Date"	①③④⑤ ⑦
Blank	"Blank"	①③④⑤ ⑦

⌣
- See <Display Type Selection> (page 14) for the display position of "Condition".

Display Type A/ Display Type B/ Display Type C
Font Color Selection

Selecting the display font color.

1 Enter Font Color Selection mode
Using the Control knob, select "DISPLAY" > "COLOR".
For the operation method, refer to <Function Control mode> (page 9).

2 Select the text display part

Select the character color/ outline color (Display Type A only)
Push the Control knob towards up or down.

Display	Setting
"FILL-IN"	The color of the text fill.
"OUTLINE"	The color of the text outline.

Select the row (only for display type with multiple rows)
Push the Control knob towards up or down.
The cursor (▶) moves to the selected text display part.

3 Select the Font Color

Basic color (12 colors)
Push the Control knob towards right or left.

Detail color (115 colors)
Turn the Control knob.

4 Exit Font Color Selection mode
Press the Control knob.

Display Type C
Icon Display Switching

Changing the Icon Display.

1 Enter Icon select mode
Using the Control knob, select "DISPLAY" > "SIDE".

2 Switch the Icon display
Turn the Control knob or push it towards left or right.

Select from the following displays:

Icon display	Display
Source graphic	"Source"
Text label	"Text"
Album art (iPod or "Music Editor" media)	"Photograph"

3 Exit Icon select mode
Press the Control knob.

/⊜\

- The Album art display function is not used to display the image corresponding to the tag recorded in the Audio file.
- If Album art display is selected during playback of an iPod or "Music Editor" media on which no album art is recorded, a source icon is displayed.
- During Album art downloading, "Down-loading" is displayed. Downloading requires a maximum of 30 seconds.

Station/Disc Naming (SNPS/DNPS)

Attaching a title to a Station or CD.

1 Receive/play the station/disc you want to attach a title to

/⊜\

- A title cannot be attached to MD or Audio file media.

2 Enter Menu mode
Using the Control knob, select "MENU".
For the operation method, refer to <Function Control mode> (page 9).

3 Select Name set mode
Turn the Control knob.
Select the "Name Set" display.

4 Enter Name set mode
Press the Control knob for at least 1 second.

5 Move the cursor to the enter character position
Push the Control knob towards right or left.

6 Select the character type
Press the Control knob.
Each time you press the knob, the character type alternates between the types shown in the table below.

Character type
Alphabet upper case
Alphabet lower case
Numbers and symbols
Special characters (Accent characters)

7 Select the characters
Turn the Control knob or push it towards up or down.

/⊜\

- Enter characters by using a remote control with numbers buttons.
  Example: If you are entering "DANCE".

Character	Button	Times pressed
"D"	[3]	1
"A"	[2]	1
"N"	[6]	2
"C"	[2]	3
"E"	[3]	2

8 Repeat steps 5 through 7 and enter the name.

9 Exit Menu mode
Press the [FNC] button.

/⊜\

- When operation stops for 10 seconds the name at that time is registered, and Name Set mode closes.
- Memory numbers
  - FM/AM: 30 stations
  - Internal CD player: 10 discs
  - External CD changer/ player: Varies according to the CD changer/ player. Refer to the CD changer/ player manual.
- Change the title of station/CD by the same operation used to name it.

General features

Angle Control

Setting the panel angle.

1 Enter Angle Control mode
Using the Control knob, select "ANGLE".
For the operation method, refer to <Function Control mode> (page 9).

2 Set the panel angle
Turn the Control knob to right or push it towards right.
Each time you turn the Control knob, the panel angle is changed in four levels.

3 Exit Angle Control mode
Press the Control knob.

Theft Deterrent Faceplate

The faceplate of the unit can be detached and taken with you, helping to deter theft.

Removing the Faceplate
Press the Release button.
The faceplate is unlocked, allowing you to detach it.
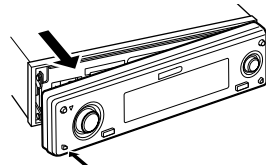
⚠️
- The faceplate is a precision piece of equipment and can be damaged by shocks or jolts.
- Keep the faceplate in its faceplate case while detached.
- Do not expose the faceplate (and the faceplate case) to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.

Reattaching the Faceplate

1 Align the shaft on the unit with the depression on the faceplate.
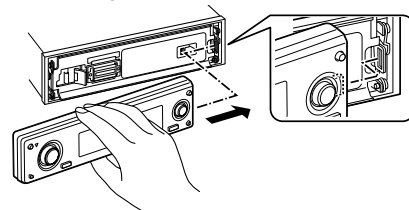
2 Push the faceplate in until it clicks.
The faceplate is locked in place, allowing you to use the unit.

Tuner/TV control features

ATT
Control knob

FNC
SRC **AUTO/AME**

ST indicator

Band display | **Preset station number** | **Frequency display**

FM1-1ch   92.1

Function icon

MENU | DSP | DISPLAY | ANGLE | P.MEMORY
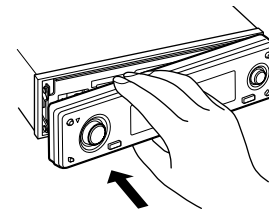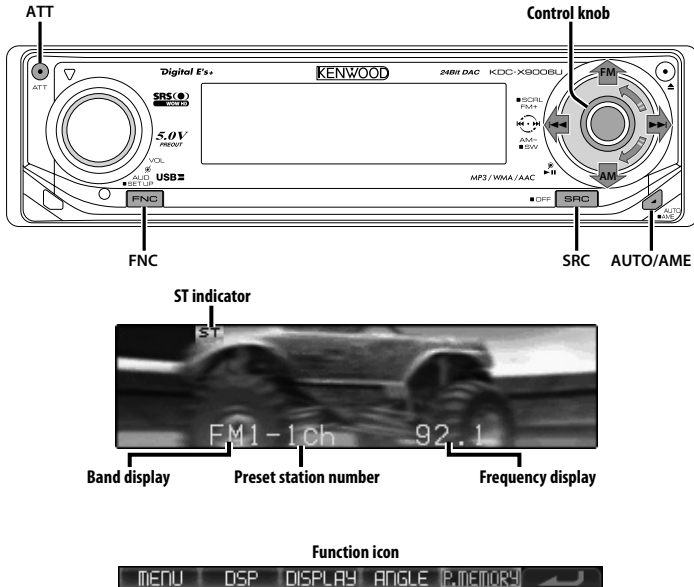
Tuning

Selecting the station.

1 **Select tuner source**
Press the [SRC] button.
Select the "TUNER" display.
Refer to <Selecting the Source> (page 7).

2 **Select the band**
Push the Control knob towards [FM] or [AM].
Each time you push the knob toward [FM], it switches between the FM1, FM2, and FM3 bands.

3 **Tune up or down band**
Push the Control knob towards [I◄◄] or [►►I].
⊛

• During reception of stereo stations the "ST" indicator is ON.

Tuning Mode

Choose the tuning mode.

Press the [AUTO] button.
Each time you press the button, the Tuning mode alternates between the modes shown in the table below.

Tuning mode	Display	Operation
Auto seek	"Seek Mode: Auto1"	Automatic search for a station.
Preset station seek	"Seek Mode: Auto2"	Search in order of the stations in the Preset memory.
Manual	"Seek Mode: Manual"	Normal manual tuning control.

Tuner/TV control features

Function of remote control
Direct Access Tuning

Entering the frequency and tuning.

1 Select the band
Press the [FM] or [AM] button.

2 Enter Direct Access Tuning mode
Press the [DIRECT] button on the remote control.
"– – – –" is displayed.

3 Enter the frequency
Press the number buttons on the remote control.
Example:

Desired frequency	Press button
92.1 MHz (FM)	[0], [9], [2], [1]
810 kHz (AM)	[0], [8], [1], [0]

Cancelling Direct Access Tuning
Press the [DIRECT] button on the remote control.

⟮📖⟯
• You can enter the FM band frequency in steps of a minimum of 0.1 MHz.

Station Preset Memory

Putting a station in the memory.

1 Select the band
Push the Control knob towards [FM] or [AM].

2 Select the frequency to put in the memory
Push the Control knob towards [|◄◄] or [►►|].

3 Enter Preset Memory mode
Using the Control knob, select "P.MEMORY".
For the operation method, refer to <Function Control mode> (page 9).

4 Select the number to put in the memory
Turn the Control knob.

5 Determine the number to put in the memory
Press the Control knob.

6 Allow the determined number to take effect
Press the Control knob.

Cancelling the Preset Memory mode
Press the [FNC] button.

Auto Memory Entry

Putting stations with good reception in the memory automatically.

1 Select the band for Auto Memory Entry
Push the Control knob towards [FM] or [AM].

2 Open Auto Memory Entry
Press the [AME] button for at least 2 seconds.
When 6 stations that can be received are put in the memory Auto Memory Entry closes.

Preset Tuning

Recalling the stations in the memory.

1 Select the band
Push the Control knob towards [FM] or [AM].

2 Enter Preset Tuning Select mode
Turn the Control knob.

3 Select a desired station in the memory
Turn the Control knob.

4 Recall the station
Press the Control knob.

Cancelling Preset Tuning
Press the [FNC] button.

Frequency Step Setting

Changing the tuning frequency step.
The original setting is FM band 50 kHz, and AM band 9 kHz.

1 Turn the power OFF
Press the [SRC] button for at least 1 second.

2 Switch the frequency step
While pressing the [FNC] and [ATT] buttons, press the [SRC] button.
Release your fingers from the button after the display appears.
The frequency step changes to FM band 200 kHz, and AM band 10 kHz.

⟮📖⟯
• When the same operation is repeated, the frequency step returns to the original setting.
• When the frequency step is changed, the frequencies in the memory are deleted.

TV Tuning

Selecting the TV channel of a connected LX BUS Television (optional accessory).
The action depends on the setting of the connected LX BUS Television. Refer to the user instruction of the LX BUS Television for details.

1 Select TV source
Press the [SRC] button.
Select the "TV" display.
Refer to <Selecting the Source> (page 7).

2 Select the TV band and Video input
Push the Control knob toward [FM].
Each time you push the knob to [FM], TV bands and Video input alternate.

3 Select the TV channel
Push the Control knob towards [|◄◄] or [►►|].

TV channel Preset Memory

Putting the TV channels in the memory.

1 Select the TV band
Push the Control knob toward [FM].

2 Select the TV channel to put in the memory
Push the Control knob towards [|◄◄] or [►►|].

3 Enter Preset Memory mode
Using the Control knob, select "P.MEMORY".
For the operation method, refer to <Function Control mode> (page 9).

4 Select the number to put in the memory
Turn the Control knob.

5 Determine the number to put in the memory
Press the Control knob.

6 Allow the determined number to take effect
Press the Control knob.

Cancelling the Preset Memory mode
Press the [FNC] button.

Preset TV Tuning

Recalling the TV channels in the memory.

1 Select the TV band
Push the Control knob toward [FM].

2 Enter Preset Tuning Select mode
Turn the Control knob.

3 Select a desired station in the memory
Turn the Control knob.

4 Recall the station
Press the Control knob.

Cancelling Preset Tuning
Press the [FNC] button.

Direct TV Tuning

Entering the TV channel and tuning.

1 Select the TV band
Press the [FM] button.

2 Enter Direct TV Tuning mode
Press the [DIRECT] button on the remote control.
"– –" is displayed.

3 Enter the TV channel
Press the number buttons on the remote control.
Example:

Desired channel	Press button
8 ch	[0], [8]

Cancelling Direct TV Tuning
Press the [DIRECT] button on the remote control.

CD/Audio file (USB/iPod/Internal Memory) control features

Control knob ▲

FNC   SRC

IN indicator

```
IN                          mp3
P-TIME       F01 T-01  1:23
TITLE+ARTIST  T tle Tag / Artist
SA+CLOCK                    012:34
```

Folder number   File number   Play time

Function icon

```
MENU  DSP  DISPLAY ANGLE  SCAN  RANDOM ALL ROM
FILE REP FOLDER REP  SCAN  DISC ROM M.ROM TRACK REP DISC REP
```
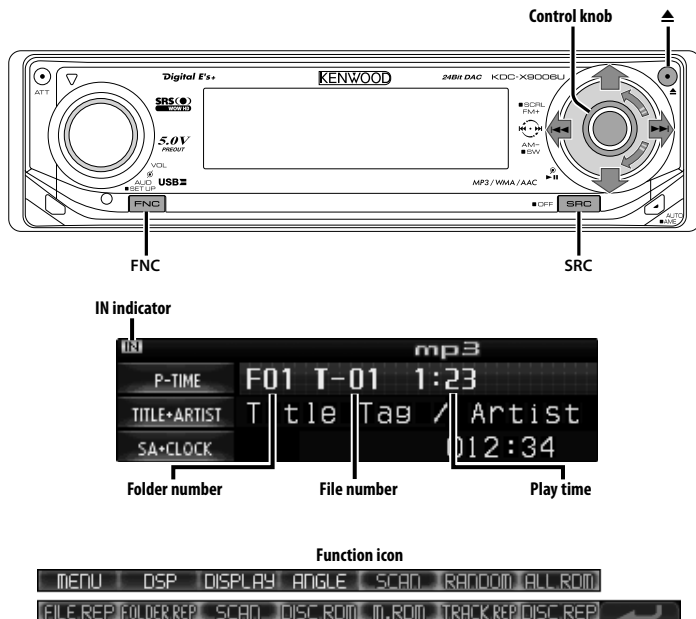
Playing CD & Audio file

When there is no disc inserted

1 Open the panel
Press the [▲] button.

2 Insert a disc.

⚠

- When the faceplate slides open, it might interfere with the shift lever or other vehicle function. If this happens, pay attention to safety and move the shift lever or take an appropriate action to remove the obstacle, then operate the unit.
- Insert the disc horizontal to the slot. If you insert the Disc as you push down on the Disc, it may scratch the Disc.

⟨⟩

- For the audio files and discs you can play with this unit, refer to <About Audio file> (page 5).
- When a disc is inserted the "IN" indicator is ON.

When a disc is inserted
Press the [SRC] button.
Select the "Compact Disc" display.
Refer to <Selecting the Source> (page 7).

Eject the disc

1 Eject the disc
Press the [▲] button.

2 Return the panel to the original position
Press the [▲] button.

⟨⟩

- You can eject the disc for 10 minutes after switching off the engine.

Playing USB (iPod) device

When the USB device is not connected

Connect the USB device
Playback of the file contained in the USB device starts.

When the USB device is connected

Select USB source
Press the [SRC] button.
Select the "USB" (or "iPod") display.
Refer to <Selecting the Source> (page 7).

(⨀)

- For the audio files that can be played with this unit and the devices that can be connected to this unit, refer to <About Audio file> (page 5).
- The word "iPod" appearing in this manual indicates the iPod connected with the KCA-iP200 (optional accessory). Refer to <About Audio file> (page 5).
- If you start playback after connecting the iPod, the music that has been played by the iPod is played first.
  In this case, "RESUMING" is displayed without displaying a folder name, etc. Changing the browse item will display a correct title, etc.
- When the iPod is connected to this unit, "KENWOOD" or "✓" is displayed on the iPod to indicate that you cannot operate the iPod.
- When the USB device is connected to this unit, it can be charged up provided that this unit is powered.
- When the Multi Card Reader is used, refer to <Drive Search> (page 23).
- After you stopped playing a file contained in the USB device, you can restart playing the file from the point where you stopped its playback.
  Even after removing the USB device, you can restart playing the file from the point where you stopped its playback as long as the files contained in the USB device are all the same.
- Be sure to insert the USB device connector as far as it will go.

Removing the USB device

1 **Set the remove mode as the USB source**
Press the [⏏] button for at least 2 seconds.
"USB REMOVE" display blinks.

2 **Remove the USB device.**

Playing Internal Memory

Press the [SRC] button.
Select the "Internal Memory" display.
Refer to <Selecting the Source> (page 7).

Playing External Disc

Playing discs set in the optional accessory disc player connected to this unit.

Press the [SRC] button.
Select the display for the disc player you want.
Refer to <Selecting the Source> (page 7).
Display examples:

Display	Disc player
"CD Changer"	CD changer
"MD Changer"	MD changer

(⨀)

- The functions that can be used and the information that can be displayed will differ depending on the external disc players being connected.

Pause and play

Press the Control knob.
Each time you press the knob, the audio pauses or plays.

Drive Search

Selecting the device inserted in the Multi Card Reader.

1 **Put the playback to pause**
Press the Control knob.

2 **Select a device**
Push the Control knob towards up or down.

3 **Restart playback**
Press the Control knob.

(⨀)

- This unit is compliant with Multi Card Readers with a maximum of 4 slots.
- If a device is inserted during connection of the Multi Card Reader, it is not recognized. Select the Remove mode with reference to <Playing USB (iPod) device> (page 22), remove the Card Reader, and then insert the memory.

CD/Audio file (USB/iPod/Internal Memory) control features

Fast Forwarding and Reversing

Fast Forwarding
Hold down toward [▶▶I] with the Control knob.
Release to resume the playback.

Reversing
Hold down toward [I◀◀] with the Control knob.
Release to resume the playback.

⁄
• There is no sound while the Audio file is being searched.

Music Search

Switching between music contained in the disc or folder being played now.

Push the Control knob towards [I◀◀ or ▶▶I].

Function of disc changer/ Audio file
Disc Search/Folder/Album Search

Switching between folders/albums contained in the disc changer, media, or device being played now.

Push the Control knob towards up or down.

⁄
• Disabled when "RESUMING" is displayed on the iPod.

Function of remote control
Direct Music Search

Doing Music Search by entering the music number.

1 Enter the music number
Press the number buttons on the remote control.

⁄
• You can select Direct music Search up to 999.

2 Do music Search
Press the [I◀◀] or [▶▶I] button.

Cancelling Direct Music Search
Press the [▶II] button.

⁄
• This function is not available on iPod and the music edited by "Music Editor".

Function of disc changers with remote control
Direct Disc Search

Doing Disc Search by entering the disc number.

1 Enter the disc number
Press the number buttons on the remote control.

2 Do Disc Search
Press the [FM+] or [AM−] button.

Cancelling Direct Disc Search
Press the [▶II] button.

Play function of CD and Audio file

Setting up the Repeat Play and Scan Play.

1 Set up the play function
Using the Control knob, set your desired setup item to On/Off.
For the operation method, refer to <Function Control mode> (page 9).
When the play function is turned on, "ON" is displayed.

Display	Icon	Function
"File Scan"	"SCAN"	Successively plays the audio files in the current folder or genre.
"Folder RDM"	"RANDOM"	Plays the audio files in the current folder or genre at random.
"All Random"	"ALL RDM"	Plays the audio files in the current disc, USB device or Internal Memory at random.
"File Repeat"	"FILE REP"	Plays the current audio file repeatedly.
"Folder Repeat"	"FOLDER REP"	Plays the audio files in the current folder or genre repeatedly.
"(Track) Scan"	"SCAN"	Plays the beginnings of the music on the current CD/MD one after another for 10 seconds each.
"Disc Random"	"RANDOM"	Plays the music on the current CD/MD at random.
"Magazine RDM"	"M.RDM"	Plays the music in the disc changer at random.
"(Track) Repeat"	"TRACK REP"	Plays the current music on the current CD/MD repeatedly.
"Disc Repeat"	"DISC REP"	Plays the music on the current CD/MD repeatedly.

2 Select an option for the selected item
Press the Control knob.
Pressing the Control knob switches between options.

3 Exit Play Function Set mode
Press the [FNC] button.

/≡\

- Only the icons available to the current source are displayed.
- Location played with "File Scan"
  - Audio file: First 10 seconds
  - Music Editor media: First 10 seconds or the part picked by Intro Skip (30 seconds)
    During Intro Skip, turn the control knob left or right to change the song.
    The scan method depends on the Music Editor setting. See the Music Editor help for details.
- During random play, turn the control knob right to randomly select the next song.

Function of Audio file
File Select

Selecting the music you want to listen to from the device or media being played now.

1 Enter File Select mode
Turn the Control knob.

2 Search for music
Select the category item using the Control knob.

Operation system for iPod

Operation type	Operation
Movement between items	Turn the Control knob.
Selection of item	Press the Control knob.
Return to previous item	Push the Control knob towards up.
Return to first item	Push the Control knob towards up for at least 1 second.

Operation system for other than iPod

Operation type	Operation
Movement between items	Turn the Control knob.
Selection of item	Push the Control knob towards right.
Return to previous item	Push the Control knob towards left.
Return to first item	Push the Control knob towards left for at least 1 second.

The "◄" or "►" symbol shown beside the displayed item indicates that the item is preceded or followed by another item.
Selecting a music will play it from the beginning.

Cancelling File Select
Press the [FNC] button.

/≡\

- Even when the iPod is connected, you can change the operation method from <Operation method for iPod> to <Operation method for other than iPod>. Refer to <iPod mode Setting> (page 31).

Text/Title Scroll

Scrolling the displayed CD text, Audio file text, or MD title.

Push the Control knob toward up for at least 2 seconds.

/≡\

- When the <Display Illumination Control> (page 33) is set to OFF, the display may black out while scrolling.

Recording & Downloading

Control knob

FNC

Memory size

```
IMPORT    ♪Track1        4:34
          ♪Track2        5:59
MEMORY    ♪Track3        3:28
          ♪Track4        6:16
```

Function icon

```
MENU   DSP   DISPLAY  ANGLE   COPY  IMPORT CD DELETE
SCAN  RANDOM ALL ROM FILE REP FOLDER REP  SCAN  TRACK REP
```
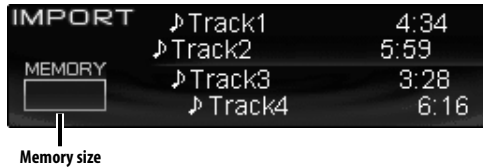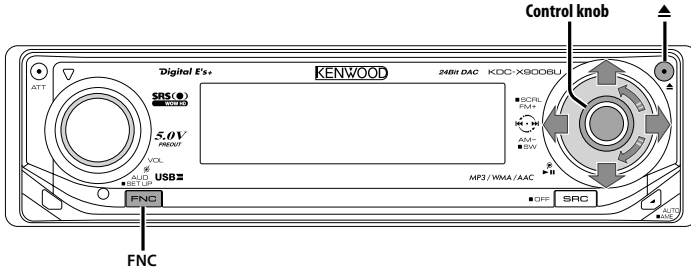
About Internal Memory

Audio files can be stored in internal memory. The stored audio files can be played in the same manner as CDs.

Audio files can be stored by recording a music CD or copying from a USB device.

To play the stored audio file, refer to <CD/Audio file (USB/iPod/Internal Memory) control features> (page 22).

- **Built-in flash memory**
  512 MB
- **Max. recording time/ tracks**
  Approx. 16 hours/ Approx. 240 tracks
  (Assuming that each tracks is in the 64 kbps WMA format with playback time of about 4 min.)

⊜ **Notes on recording, copying, and erasing**

- Kenwood will not be responsible for the loss or damage to the music or sound data in case recording fails due to machine fault or failure.
- Audio files may be lost if the engine is started while recording or copying.
- Record or copy with the engine running.

- Do not press the reset button or remove the battery while recording, copying, or erasing. Otherwise, the audio file in the internal memory may be lost.
- The audio file in the internal memory cannot be copied to another media.
- Only the following controls can be used while recording, copying, or erasing:
  - Volume
  - Attenuator
  - Power off

When recording or copying is interrupted

If ACC is turned off while recording or copying, a screen to confirm whether to continue recording or copying appears next time ACC is turned on (Resume function).

1 When "Checking the condition..." is displayed, "Continue Ripping?" or "Continue USB Copy?" is also displayed.

2 Turn on the engine and then select "YES".

3 Press the Control knob.
  Recording or copying resumes.

(⬚)
- Resume is canceled if "CANCEL" or "NO" is selected.
  - "CANCEL": Press the Control knob.
  - "NO": Select "NO" using the Control knob. Press the
    Control knob.
- The resume function may be disabled depending the
  condition of the vehicle or battery. The audio file may be
  lost if the resume function is disabled.
  Record or copy while the engine is running.

Copying from USB device

Copy audio files and folders from USB device to
internal memory.

⬚ : An empty folder cannot be
copied.
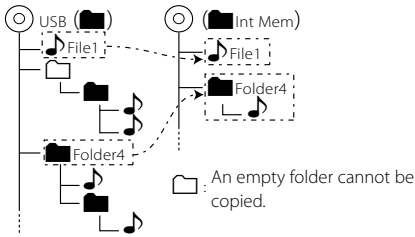
(⬚)
- Read <About Internal Memory> (page 26) before
  starting copy.

1 Connect the USB device to copy.

2 Enter Copy mode
Using the Control knob, select "COPY".
For the operation method, refer to <Function
Control mode> (page 9).

3 Select a file/folder to copy
**Select the audio file or folder using the Control
knob.**

Operation type	Operation
Movement between items	Turn the Control knob or push it towards up or down.
Selection of item	Push the Control knob towards right.
Return to previous item	Push the Control knob towards left.
Return to first item	Push the Control knob towards left for at least 1 second.
Confirm item	Press the Control knob.

4 Start copy
Select "OK" using the Control knob.

Number of files copied
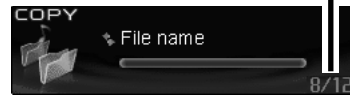
"Completed" is displayed when copying completes.

Cancelling copy
1 Cancel copy
Press the [FNC] button.
Exits Copy mode if pressed by step 3.
2 Select "YES"
Select "YES" using the Control knob.

5 Exit Copy mode
Select "EXIT" using the Control knob.
Returns to step 3 if "NEXT" is selected.

(⬚)
- If a folder is selected, the files in the folder are copied.
  Sub folders are not copied.
- If there is a file or folder with the same name, a message
  is displayed. If you select "OK", a number is added as
  "Name_001".
- If there is not enough space for the selected file or folder,
  "OVER" is displayed. Reduce the number of files to copy
  or erase unnecessary files in the USB memory.
- If copying is canceled or if space runs out while copying,
  the files copied up to that point remain.
- The displayed space is a rough estimate. The actual size
  may be smaller or greater.
- Audio files with DRM can be copied, but cannot be
  played.
- Files cannot be copied from an iPod.
- Depending on the digital audio player, it may not be
  possible to copy files.
- When files are copied from Music Editor media, the
  copied audio files are played as normal audio file. Song
  selection using the Music Editor media function is not
  possible.

Recording & Downloading

When music CD is inserted
Setting the recordable time

Set the recordable time for recording music CD.

1 Enter Mode setting
Using the Control knob, select "IMPORT CD" > "MODE SET".
For the operation method, refer to <Function Control mode> (page 9).

2 Set the recordable time
Turn the Control knob.

Display	Setting	Max. recording time*
"Standard"	Standard recording	Approx. 8 hours
"Long Play"	⋮	Approx. 12 hours
"Super Long Play"	Extended time recording	Approx. 16 hours

3 Exit Mode setting
Press the Control knob.

⚲
- * The maximum recordable time is obtained when there is no other file. The actual recording time depends on the song.
- The sound quality for Extended recording is lower than for Standard recording.

Recording music CD

Music CD can be compressed and stored in internal memory.
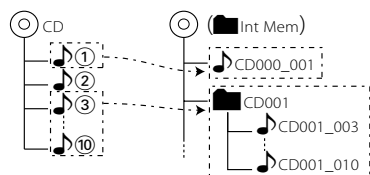
⚲
- Read <About Internal Memory> (page 26) before starting copy.
- Music CD can be recorded only from the internal CD. Recording is performed at x1 speed.

1 Insert a CD-DA
Insert the music CD to record.
Refer to <Playing CD & Audio file> (page 22).

2 Change to import mode
Using the Control knob, select "IMPORT CD" > "IMPORT".

For the operation method, refer to <Function Control mode> (page 9).

3 Select record mode
Push the Control knob towards right or left.
Multiple song record mode is set when the control knob is turned right and single song record mode is set when it is turned left.

4 Select the song to record
Turn the Control knob or push it towards up or down.

Record mode	Operation
Single song	Selects a single song.
Multi song	Selects all songs or from specified song to the last song.

5 Confirm the song
Press the Control knob.

6 Name the target file or folder
Using the Control knob, select "NAME SET".
Recording starts if "SKIP" is selected.

7 Enter Name set mode
Press the Control knob.

8 Enter the name

Operation type	Operation
Move the cursor to the enter character position	Push the Control knob towards right or left.
Select the character type*	Press the Control knob.
Select the characters	Turn the Control knob or push it towards up or down.

* Each time you press the knob, the character type alternates between the types shown in the table below.

Character type	Alphabet upper case
	Alphabet lower case
	Numbers and symbols
	Special characters (Accent characters)

⚲
- Enter characters by using a remote control with numbers buttons.
  Example: If you are entering "DANCE".

Character	"D"	"A"	"N"	"C"	"E"
Button	[3]	[2]	[6]	[2]	[3]
Times pressed	1	1	2	3	2

9 Confirm the name
Using the Control knob, select "ENTER".

10 Start recording
Press the Control knob.

Recording track no. and remaining time
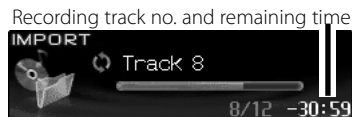
"Completed" is displayed when recording completes.

Canceling recording
1 Cancel recording
Press the [FNC] button.
Exits Import Mode when pressed by step 4.
2 Select "YES"
Select "YES" using the Control knob.

11 Exit Record mode
Select "EXIT" using the Control knob.
Returns to step 3 if "NEXT" is selected.

⟨😊⟩

- Recording is possible only from music CD and not from CD containing audio files. Copy audio files from USB device.
- Sound may skip due to vibration when the vehicle is in motion. The song will be recorded together with the skip.
- Normal recording or playback may not be possible with some CDs.
- DSP cannot be enabled while recording, but it can be enabled during playback.
- When a song is selected, the remaining recording time is decreased by the length of the recording. The remaining recording time is a rough estimate. It may increase of decrease when recording is completed.
- If recording is canceled or if space runs out while recording, the recorded songs will remain.
- There is no tag (song information) on the recorded file.
- File name or folder name may contain up to 16 characters.
- If a folder name is specified when recording multiple songs, the file name will be "foldername_tracknumber".
- If there is a file or folder with the same name, a number is added as "Name_001".
- If file name or folder name is not specified:
  - Single song recording: Files are named sequentially starting from "CD000_001.wma".
  - Multi song recording: Folders are named sequentially starting from "CD001".
  - File and folder name are incremented successively from the last number even if files in the middle are deleted. The number returns to 001 when 999 is reached.
  - Setting file name and folder name is recommended.

Deleting files in memory

Deleting audio files in memory.

⟨😊⟩

- Read <About Internal Memory> (page 26) before starting to delete.
- Deleted files and folder cannot be restored.
- Use Format to delete all songs. Refer to <Internal Memory Format> (page 37).

1 Select Internal Memory source
Press the [SRC] button.
Select the "Internal Memory" display.
Refer to <Selecting the Source> (page 7).

2 Enter Delete mode
Using the Control knob, select "DELETE".
For the operation method, refer to <Function Control mode> (page 9).

3 Select a file/folder to delete
Select the audio file or folder using the Control knob.

Operation type	Operation
Movement between items	Turn the Control knob or push it towards up or down.
Selection of item	Push the Control knob towards right.
Return to previous item	Push the Control knob towards left.
Return to first item	Push the Control knob towards left for at least 1 second.
Confirm item	Press the Control knob.

4 Start deleting
Select "OK" using the Control knob.
Number of files deleted

"Completed" is displayed when deleting completes.

Canceling delete
1 Cancel delete
Press the [FNC] button.
Exits Delete mode when pressed by step 3.
2 Select "YES"
Select "YES" using the Control knob.

5 Exit Delete mode.
Select "EXIT" using the Control knob.
Returns to step 3 if "NEXT" is selected.

Menu system

Control knob

FNC　　　　　　**SRC**

Function icon

MENU DISPLAY ANGLE

Menu System

Setting beep sound during operation, etc. functions.
The Menu system basic operation method is explained here. The reference for the Menu items and their setting content is after this operation explanation.

1 Enter Menu mode
 Using the Control knob, select "MENU".
 For the operation method, refer to <Function Control mode> (page 9).

2 Select the menu item
 Turn the Control knob or push it towards up or down.
 Example: When you want to set the beep sound select the "Beep" display.

3 Set the menu item
 Push the Control knob towards right or left.
 Example: When you select "Beep", each time you push the knob it alternates between "Beep : ON" or "Beep : OFF". Select 1 of them as the setting.

30 | English

You can continue by returning to step 2 and setting other items.

4 Exit Menu mode
 Press the [FNC] button.

⁂

• When other items those applicable to the basic operation method above are displayed, their setting content chart is entered. (Normally the setting listed at the top of the chart is the original setting.)
 Also, the explanation for items that are not applicable (<Manual Clock Adjustment> etc.) are entered step by step.

Security Code

Activating the Security Code disables the usage of audio unit by someone else. Once the Security Code is activated, the entry of authorized Security Code is required to turn on the audio unit when it is removed from the vehicle. Indication of this Security Code activation prevents your precious audio unit from stealing.

⊜

• When you activate the Security Code function, it cannot be released.
  Note, your Security Code is the 4 digit number entered in your "Car Audio Passport" in this package.

1 Enter Standby
Press the [SRC] button.
Select the "STANDBY" display.
Refer to <Selecting the Source> (page 7).

2 Enter Menu mode
Using the Control knob, select "MENU".
For the operation method, refer to <Function Control mode> (page 9).
"Security Set" is displayed.

3 Enter Security Code mode
Press the Control knob for at least 1 second.
When "Enter" is displayed, "SECURITY SET" is also displayed.

4 Select the digits to enter
Push the Control knob towards right or left.

5 Select the Security Code numbers
Turn the Control knob or push it towards up or down.

6 Repeat steps 4 and 5, and complete the Security Code.

7 Confirm the Security Code
Press the Control knob for at least 3 seconds.
When "Re-Enter" is displayed, "SECURITY SET" is also displayed.

8 Do the step 4 through 7 step operation, and reenter the security code.
"Approved" is displayed.
The Security Code function activates.

⊜

• If you enter a Code different from your Security Code, you have to start over from step 4.

9 Exit Security Code mode
Press the [FNC] button.

**Resetting the Security Code function when the audio unit is first used after removed from the battery power source or the Reset button is pressed**

1 Turn the power ON.

2 Do the step 4 through 7 step operation, and reenter the security code.
"Approved" is displayed.
Now, you can use the unit.

⊜

• If an incorrect code is entered, "Waiting" is displayed, and the input prohibition periods shown in the table below is generated.
  After the input prohibition time lapses, "SECURITY" is displayed, and you can reenter the code.

Number of times the incorrect code was input	Input prohibited time
1	—
2	5 minutes
3	1 hour
4	24 hours

Source Select Mode

Setting up the Source Select mode.

Display	Setting
"SRC Select : 1"	Displays source icons for your choice.
"SRC Select : 2"	Allows you to select sources one after another.

iPod mode setting

Setting up the iPod operation method in File Select.

Display	Setting
"iPod Mode : ON"	Uses the operation method similar to that of iPod.
"iPod Mode : OFF"	Uses the operation method different from that of iPod.

Menu system

Touch Sensor Tone

Setting the operation check sound (beep sound) ON/OFF.

Display	Setting
"Beep : ON"	Beep is heard.
"Beep : OFF"	Beep canceled.

In Standby mode
Manual Clock Adjustment

1 Select Clock Adjustment mode
Turn the Control knob.
Select the "Clock Adjust" display.

2 Enter Clock Adjust mode
Press the Control knob for at least 1 second.
The clock display blinks.

3 Selecting the item (hours or minutes) to adjust
Push the Control knob towards right or left.
The items that are blinking are items that you can adjust.

4 Adjust each item
Turn the Control knob or push it towards up or down.

5 Exit Clock adjustment mode
Press the [FNC] button.

In Standby mode
Date Adjustment

1 Select Date Adjust mode
Turn the Control knob.
Select the "Date Adjust" display.

2 Enter Date Adjust mode
Press the Control knob for at least 1 second.
The date display blinks.

3 Selecting the item (day, month, or year) to adjust
Push the Control knob towards right or left.
The items that are blinking are items that you can adjust.

4 Adjust each item
Turn the Control knob or push it towards up or down.

5 Repeat step 3 and 4 operation and adjust the date.

6 Exit Date adjustment mode
Press the [FNC] button.

In Standby mode
Date Mode

Setting the date format.

1 Select Date Mode
Turn the Control knob.
Select the "Date Mode" display.

2 Enter Date mode
Press the Control knob for at least 1 second.

3 Select the date format
Turn the Control knob or push it towards up or down.

4 Exit Date mode
Press the [FNC] button.

In Standby mode
DSI (Disabled System Indicator)

A red indicator will blink on the unit after the faceplate is removed, warning potential thieves.

Display	Setting
"DSI : ON"	LED flashes.
"DSI : OFF"	LED OFF.

Display Illumination Control

This function turns off the display when you perform no operation for 5 seconds. This function is effective when you are driving at night.

Display	Setting
"Display : ON"	Keeps the display on.
"Display : OFF"	Turns off the display when you perform no operation for 5 seconds.

⊜

• Set the Display Illumination Control when the <Demonstration mode Setting> (page 37) is set to OFF.
• When the display is off, pressing any key will turn on the display.
• When the display is off, you cannot perform any operation except for the following:
  • Volume
  • Attenuator
  • Selecting the source
  • Ejecting the disc
  • Turning off the power
  • USB remove mode
• During function control, such as the Menu System, the display stays on.

In Standby mode
Dimmer

Dimming this unit's display automatically when the vehicle light switch is turned ON.

Display	Setting
"Dimmer : ON"	The display dims.
"Dimmer : OFF"	The display does not dim.

In Standby mode
Contrast Adjustment

Adjusting the display contrast.

Display and Setting
"Contrast : 1"
⋮
"Contrast : 4" (Original setting)

In Standby mode
Display-reversing Setting

If no operation is performed for a predetermined period of time, switching between negative and positive display modes takes place automatically. Display-reversing maintains the initial brightness of the display for a long period of time.

Display	Setting
"Display N/P : Auto"	Auto reverse display
"Display N/P : POSI"	Positive display only

⊜

• Switching between negative and positive display may not take place depending on the displayed mode.

In Standby mode
Built-in Amp Setting

Controlling the built-in amplifier.
Turning OFF this control enhances the preout quality.

Display	Setting
"AMP : ON"	The built-in amplifier activates.
"AMP : OFF"	The built-in amplifier deactivates.

Other than Standby mode/
When the Dual Zone System is ON
Dual Zone System Setting

Setting the Front channel and Rear channel sound in the Dual Zone System.

Display	Setting
"Zone 2 : Rear"	Sub source (Auxiliary input source) is to be rear channel.
"Zone 2 : Front"	Sub source (Auxiliary input source) is to be front channel.

Menu system

Other than Standby mode
B.M.S. (Bass Management System)

Adjust the bass boost level of the external amplifier using the main unit.

Display	Setting
"AMP Bass : Flat"	Bass boost level is flat.
"AMP Bass : +6"	Bass boost level is low (+6dB).
"AMP Bass : +12"	Bass boost level is mid (+12dB).
"AMP Bass : +18"	Bass boost level is high (+18dB).

⏚
- Refer to the catalog or instruction manual for power amplifiers that can be controlled from this unit.
- For amplifiers, there are the models you can set from Flat to +18 dB, and the models you can set from Flat to +12 dB.
  When an amplifier that can only be set to +12 is connected to the unit, "AMP Bass : +18" will not work correctly even if it is selected.

Other than Standby mode
B.M.S. Frequency Offset

Setting the central frequency, boosted by B.M.S.

Display	Setting
"AMP FREQ : Normal"	Boost with the normal central frequency.
"AMP FREQ : Low"	Drop the normal central frequency 20%.

When LX AMP unit connecting
AMP Control

You can control the LX AMP connected to the unit.

1 Select AMP Control mode
Turn the Control knob.
Select the "AMP Control" display.

2 Enter AMP Control mode
Press the Control knob for at least 1 second.

3 Select the AMP Control item for adjustment
Push the Control knob towards up or down.
⏚
- For the details on the AMP Control item, see the Instruction manual attached to the LX AMP.

4 Adjust the AMP Control item
Push the Control knob towards right or left.

5 Exit AMP Control mode
Press the [FNC] button.
⏚
- You cannot use the LX AMP operation during standby mode.

In FM reception
CRSC (Clean Reception System Circuit)

Temporarily have reception alternate from stereo to mono to reduce multi-path noise when listening to the FM station.

Display	Setting
"CRSC : ON"	The CRSC is ON.
"CRSC : OFF"	The CRSC is OFF.

⏚
- Strong electrical fields (such as from power lines) may cause unstable sound quality when CRSC is turned ON. In such a situation, turn it OFF.

Auxiliary Input Display Setting & Station/Disc Naming

Selecting the display when changing to Auxiliary input source. For the Station/Disc Naming refer to the <Station/Disc Naming (SNPS/DNPS)> (page 17).

1 Select Auxiliary input source
Press the [SRC] button.
Select the "AUX"/"AUX EXT" display.
Refer to <Selecting the Source> (page 7).

2 Enter Menu mode
Using the Control knob, select "MENU".
For the operation method, refer to <Function Control mode> (page 9).

3 Select Auxiliary input display setting mode
Turn the Control knob.
Select the "Name Set" display.

4 Enter Auxiliary input display setting mode
Press the Control knob for at least 1 second.
The presently selected Auxiliary input display is displayed.

5 Select the Auxiliary input display
Turn the Control knob or push it towards up or down.
Each time you push the knob, the display alternates as listed below.
• "AUX"/"AUX EXT"
• "DVD"
• "PORTABLE"
• "GAME"
• "VIDEO"
• "TV"

6 Exit Auxiliary input display setting mode
Press the [FNC] button.

⟨📖⟩
• When operation stops for 10 seconds, the name at that time is registered, and the Auxiliary input display setting mode closes.
• The Auxiliary input display can be set only when the built-in auxiliary input or the auxiliary input of optional KCA-S220A is used.

In Standby mode
Selecting Chinese Characters

Setting up the display of Chinese characters and undistinguishable English characters.

Display	Setting
"Chinese : OFF"	Displays texts using European characters.
"Chinese : ON"	Displays texts using Chinese characters.

⟨📖⟩
• Texts displayed using Chinese characters are as follows.
  - Folder name/ File name/ Music title/ Artist name/ Album name
  - KCA-BT100 (Optional accessory)
    Initial search in phone book cannot be performed for Chinese characters.
• About display in <File Select>
  In <File Select> (page 25), up to 13 Chinese characters can be displayed. If file names are long, it becomes difficult to search them. Name files short enough to be able to display.

Text Scroll

Setting the displayed text scroll.

Display	Setting
"Scroll : Auto"	Repeats scroll.
"Scroll : Manual"	Scrolls when the display changes.

⟨📖⟩
• The text scrolled is listed below.
  - CD text
  - Folder name/ File name/ Music title/ Artist name/ Album name
  - MD title

In Standby mode
Built-in Auxiliary input Setting

Set the Built-in Auxiliary Input function.

Display	Setting
"Built in AUX : OFF"	When selecting the source there's no Auxiliary Input.
"Built in AUX : ON"	When selecting the source there's Auxiliary Input.

Menu system

In Standby mode
CD Read Setting

When there is a problem with playing a CD with special format, this setting plays the CD by force.

Display	Setting
"CD Read : 1"	Play CD and Audio file.
"CD Read : 2"	Play CD by force.

⚮
• Some music CDs may not play even in the "CD Read : 2" mode.

In Standby mode
Picture downloading

Downloading wallpapers. You can use downloaded pictures for the display of this unit.

1 Connected the USB device or Insert a CD-R/CD-RW

Connect the USB device containing the files to be downloaded into this unit.
Or with the USB device removed, insert a CD-R/CD-RW containing files to be downloaded into this unit.
Refer to <Playing CD & Audio file> (page 22) for details.

⚮
• Our URL http://www.kenwood.net-disp.com describes how to make CD-R/CD-RW/USB device.

2 Enter Standby
Press the [SRC] button.
Select the "STANDBY" display.
Refer to <Selecting the Source> (page 7).

3 Enter Menu mode
Using the Control knob, select "MENU".
For the operation method, refer to <Function Control mode> (page 9).

4 Select the picture downloading
Turn the Control knob.
Select the "DISP Data DL" display.

5 Enter the downloading mode
Press the Control knob for at least 1 second.
"File Check!!" display blinks.

6 Select files to be downloaded
Turn the Control knob or push it towards up or down.
Press the Control knob.

7 Start downloading
Select "YES" using the Control knob.
When the downloading finishes, "Finished" is displayed.

⚮
• Picture downloading may take as long as 20 minutes.

Quantity

DISPLAY DATA DL
Picture   1Pic
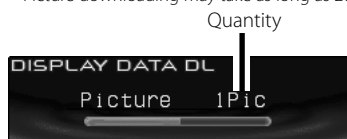
Cancelling Downloading
Press the [FNC] button.

8 Exit the downloading mode
Press the [FNC] button.

⚮
• Do not operate this unit while downloading to prevent data from being damaged.
• The number of files that can be downloaded.
  - Wallpaper: 1 file
• When a new wallpaper is downloaded, it is overwritten to the currently downloaded wallpaper.
  There is no way to delete the downloaded pictures.
• The downloaded pictures can be used for display.
  <Graphic Display Selection> (page 15)
• When you cannot download the pictures to this unit, there may be a problem with the CD-R/CD-RW/USB device write method.
  Refer to the URL http://www.kenwood.net-disp.com.

PICTURE ENGINE
Picture Engine is an application software distributed from Kenwood's official website. Utilizing this software, you can create an original still image file. As for the download of application, please browse "http://www.kenwood.net-disp.com/" for directions.

Firmware version display

Displaying the firmware version with the unit.

Turn the Control knob.
Select the "F/W Version : " display.

In Internal Memory source
Internal Memory Format

Perform format to delete all audio files stored in internal memory.

⤵

• The content of formatted memory cannot be restored. Be careful when formatting.

1 Enter Internal Memory
Press the [SRC] button.
Select the "Internal Memory" display.

2 Enter Menu mode
Using the Control knob, select "MENU".
For the operation method, refer to <Function Control mode> (page 9).

3 Select the Internal Memory Format
Turn the Control knob.
Select the "INT.MEM.Format" display.

4 Enter the Formatting mode
Press the Control knob for at least 1 second.
"Format?" is displayed.

5 Start format
Select "YES" using the Control knob.
"Format..." display blinks.
When the formatting finishes, "Completed" is displayed.

6 Exit Formatting mode
Press the [FNC] button.

In Standby mode
Demonstration mode setting

Sets the demonstration mode.

1 Select the Demonstration mode
Turn the Control knob.
Select the "DEMO Mode" display.

2 Set the Demonstration mode
Press the Control knob for at least 2 seconds.
Each time you press the knob at least 2 seconds, the Demonstration mode alternates between the settings shown in the table below.

Display	Setting
"DEMO Mode : ON"	The Demonstration mode function is ON.
"DEMO Mode : OFF"	Exit Demonstration mode (Normal mode).

Basic Operations of remote control

VOL —
SRC

ATT

AUD —
►II

FM/AM/+/− —
I◄◄/►►I

2-ZONE —
DIRECT

[0] — [9]

▼/▲
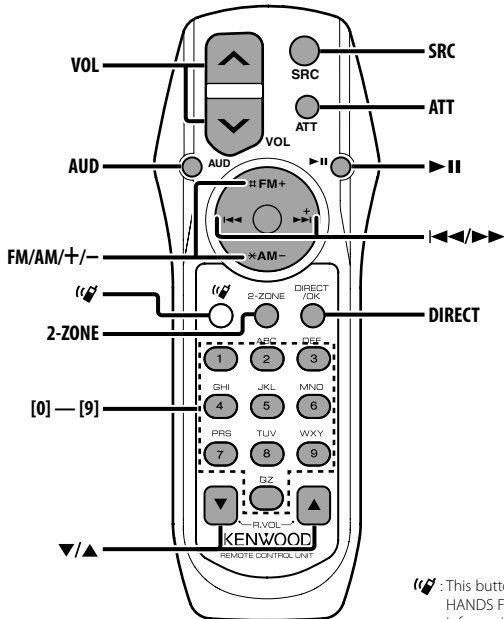
((: This button is used when Kenwood Bluetooth
HANDS FREE BOX is connected. For more
information, refer to the instruction manual of
Bluetooth HANDS FREE BOX.

Loading and Replacing the battery

Use two "AA"/ "R6"-size batteries.
Slide the cover while pressing downwards to
remove it as illustrated.
Insert the batteries with the + and − poles aligned
properly, following the illustration inside the case.
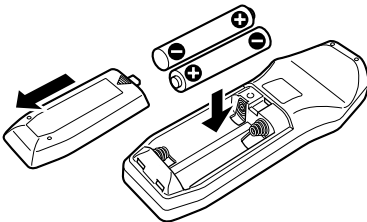
Basic operations

[VOL] buttons

 Adjusts the volume.

[SRC] button

 Each time you press the button, the source
 alternates.
 For the source alternating order refer to <Selecting
 the Source> (page 7).

[ATT] button

 Turns the volume down quickly.
 When the button is pressed again, the volume
 returns to the previous level.

Audio Control

[AUD] button

    Selects the Audio item to be adjusted.

[VOL] buttons

    Adjusts the Audio item.

⊜

• Refer to <Audio Control> (page 8) for the operation method, such as the procedures for Audio control and others operations.

Dual Zone System

[2-ZONE] button

    Each time you press the button, "2 ZONE" of <Audio Setup> (page 8) is turned ON or OFF.

[▲]/ [▼] buttons

    Adjusts the volume of the rear channel.
    The rear channel activates while the Dual Zone System is ON.

In Tuner source

[FM]/ [AM] buttons

    Selects the band.
    Each time you press the [FM] button, the band alternates between the FM1, FM2, and FM3 bands.

[|◄◄]/ [►►|] buttons

    Tune up or down band.

[0] — [9] buttons

    Press buttons [1] — [6] to recall preset stations.

[DIRECT] button

    Enters and cancels the <Direct Access Tuning> (page 20) mode.

In Disc/USB (iPod)/Internal Memory source

[|◄◄]/ [►►|] buttons

    Going forwards and backwards between music.

[+]/ [−] buttons

    Going forwards and backwards between disc/ folders.

[►II] button

    Each time you press the button, the music is played or paused.

[0] — [9] buttons

    When in <Direct Music Search> (page 24) and <Direct Disc Search> (page 24), enters the music/ disc number.

In TV source

[FM] button

    Selects the TV band and Video input.
    Each time you press the [FM] button, TV bands and Video input alternates.

[|◄◄]/ [►►|] buttons

    Selects the TV channel.

[0] — [9] buttons

    Press buttons [1] — [6] to recall preset TV channels.

[DIRECT] button

    Enters and cancels the <Direct TV Tuning> (page 21) mode.

Accessories/ Installation Procedure

Accessories

① 1

② 2

③ 4

④ 4

⑤ 1
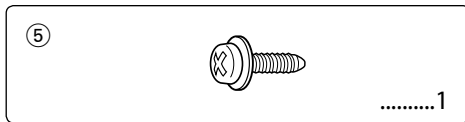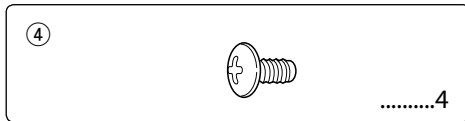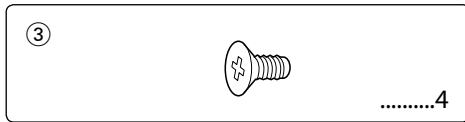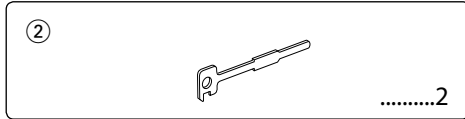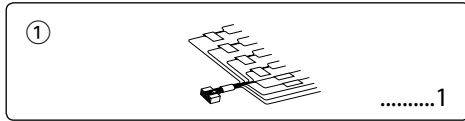
Installation Procedure

1. To prevent a short circuit, remove the key from the ignition and disconnect the ⊖ battery.
2. Make the proper input and output wire connections for each unit.
3. Connect the speaker wires of the wiring harness.
4. Connect the wiring harness wires in the following order: ground, battery, ignition.
5. Connect the wiring harness connector to the unit.
6. Install the unit in your car.
7. Reconnect the ⊖ battery.
8. Press the reset button.

⚠WARNING

If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.

⚠
- If the power is not turned ON ("Protect" is displayed), the speaker wire may have a short-circuit or touched the chassis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.
- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, as with battery wires, the battery may die.
- If the console has a lid, make sure to install the unit so that the faceplate will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.
- Insulate unconnected wires with vinyl tape or other similar material. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the ⊖ wires or ground them to any metal part in the car.
- When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). For example, if you connect the ⊕ connector of the left speaker to a front output terminal, do not connect the ⊖ connector to a rear output terminal.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.

If You Want to Connect iPod

iPod
AUDIO OUT

KCA-iP200 (Optional accessory)
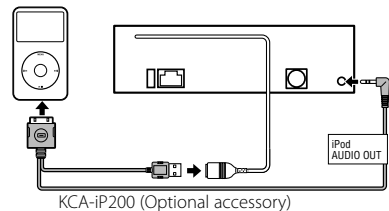
- No other optional accessory can be connected because the USB connector and the AUX input are used for iPod connection.
- Dual Zone System in <Audio Setup> (page 8) will become unavailable.

Connecting Wires to Terminals

To USB device

USB connector (1 m)

• Do not remove the cap when you do not use the USB cable. The connector will cause the unit to malfunction if it gets in touch with any metallic part of the vehicle.

To use the steering wheel remote control feature, you need to an exclusive remote adapter (not supplied) matches your car is required.

REMO.CONT

Steering remote control (Light Blue/Yellow)

FRONT — Front right output (Red)
Front left output (White)

REAR — Rear right output (Red)
Rear left output (White)

SUB WOOFER — Sub Woofer right output (Red)
Sub Woofer left output (White)

FM/AM antenna input

To Kenwood disc changer/ External optional accessory
To connect these leads, refer to the relevant instruction manuals.

AUX input (Stereo)
Use the mini-plug which is stereo type and does not have any resistance.

Fuse (10A)

Wiring harness (Accessory①)

White/Black
White
To front left speaker

Gray/Black
Gray
To front right speaker

Green/Black
Green
To rear left speaker

Purple/Black
Purple
To rear right speaker

If no connections are made, do not let the wire come out from the tab.

Power control wire (Blue/White)	P.CONT	When using the optional power amplifier, connect to its power control terminal.
Motor antenna control wire (Blue)	ANT. CONT	Depending on what antenna you are using, connect either to the control terminal of the motor antenna, or to the power terminal for the booster amplifier of the film-type antenna.
TEL mute wire (Brown)	MUTE	Connect to the terminal that is grounded when either the telephone rings or during conversation. To connect the Kenwood navigation system, consult your navigation manual.
External amplifier control wire (Pink/Black)	EXT. CONT	To "EXT.AMP.CONT." terminal of the amplifier having the external amp control function.
Dimmer control wire (Orange / White)	ILLUMI	To car light control switch

Ignition key switch

Car fuse box

Ignition wire (Red)

ACC

Battery wire (Yellow)

Car fuse box (Main fuse)

Ground wire (Black) ⊖ (To car chassis)

Battery

Installation

non-Japanese cars

Metal mounting strap
(commercially available)

Firewall or metal support

Bend the tabs of the
mounting sleeve with a
screwdriver or similar utensil
and attach it in place.

Self-tapping screw
(commercially available)

Screw (M4X8)
(commercially available)

{≡}
• Make sure that the unit is installed securely in place. If the
unit is unstable, it may malfunction (for example, the sound
may skip).

Japanese cars

1 Refer to the section <Removing the hard rubber
frame> and then remove the hard rubber frame.
2 Align the holes in the unit (two locations on each
side) with the vehicle mounting bracket and secure
the unit with the accessory screws.

T: Toyota cars
N: Nissan cars

8 mm
MAX.

8 mm
MAX.

③

④

M5mm

M5mm

Accessory③...for Nissan car
Accessory④...for Toyota car

⚠
• During installation, do not use any screws except for
those provided. The use of different screws might result in
damage to the main unit.
• Damage may occur if a screwdriver or similar tool is used
with excessive force during the installations.

Removing the hard rubber frame

1 Engage the catch pins on the removal tool and remove the two locks on the upper level.
Upper the frame and pull it forward as shown in the figure.

Lock

Catch

Accessory②
Removal tool
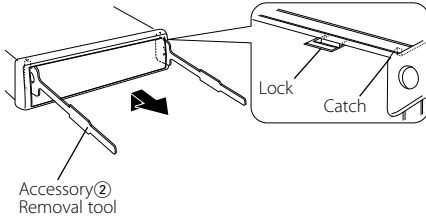
2 When the upper level is removed, remove the lower two locations.

⁂

• The frame can be removed from the bottom side in the same manner.

Removing the Unit

1 Refer to the section <Removing the hard rubber frame> and then remove the hard rubber frame.
2 Remove the screw (M4 × 8) on the back panel.
3 Insert the two removal tools deeply into the slots on each side, as shown.
4 Lower the removal tool toward the bottom, and pull out the unit halfway while pressing towards the inside.

Screw (M4X8)
(commercially available)

Accessory②

⚠
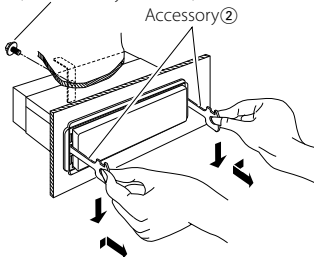
• Be careful to avoid injury from the catch pins on the removal tool.

5 Pull the unit all the way out with your hands, being careful not to drop it.

Screwing the Faceplate on the Unit

If you want to fasten the faceplate to the main unit so that it does not fall off, screw in the provided screws in the holes shown below.

Bottom panel

Accessory⑤

⚠

• Never insert the screw in any other screw hole than the one specified. If you screw them in another hole, it will contact and may cause damage to the mechanical parts inside the unit.

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Troubleshooting Guide

Some functions of this unit may be disabled by some settings made on this unit.

! **Cannot switch to Aux source.**
▶ • AUX is not turned on. ☞ <Built-in Auxiliary input Setting> (page 35)
• AUX cannot be used when the KCA-iP200 is connected.

! • **Cannot set up the Fader.**
• **No Audio control effect on AUX.**
▶ The Dual zone function is enabled. ☞ <Audio Setup> (page 8)

! • **Cannot set up the equalizer.**
• **Cannot set up WOW HD.**
• **Cannot set up the crossover network.**
• **Cannot set up Digital Time Alignment.**
• **Cannot preset the sound system.**
▶ • The Dual zone function is enabled. ☞ <Audio Setup> (page 8)
• In the speaker select option, None is selected for the rear speakers. ☞ <Sound Management system> (page 10)

! • **Cannot set up the subwoofer.**
• **Cannot set up subwoofer phase.**
• **No output from the subwoofer.**
▶ • In the speaker select option, None is selected for the related speakers. ☞ <Sound Management system> (page 10)
• <Subwoofer Output> (page 9) is not set to On.
• The Dual zone function is enabled. ☞ <Audio Setup> (page 8)

! • **Cannot set up the sound management system.**
• **Cannot set up the position.**
▶ The Dual zone function is enabled. ☞ <Audio Setup> (page 8)

! **Cannot set up SRS 3D Space Control or SRS 3D Center Control.**
▶ The tuner or TV source is in use.

! **Cannot set up the SRS 3D Center Control.**
▶ SRS 3D Space control is set to OFF. ☞ <WOW HD Control> (page 13)

! **Cannot set up the Dual zone function.**
▶ In the speaker select option, None is selected for the rear speakers. ☞ <Sound Management system> (page 10)

! • **Cannot select the output destination of the subsource in the Dual zone.**
• **Cannot adjust the volume of the rear speakers.**
▶ The Dual zone function is disabled. ☞ <Audio Setup> (page 8)

! • **Cannot register a security code.**
• **Cannot set up Display Illumination Control.**
▶ <Demonstration mode Setting> (page 37) is not turned off.

! **Cannot play audio files.**
▶ <CD Read Setting> (page 36) is set to "2".

! • **Cannot File select.**
• **Cannot direct music search.**
▶ The Random play function is enabled.

What might seem to be a malfunction in your unit may just be the result of slight misoperation or miswiring. Before calling service, first check the following table for possible problems.

General

? **The Touch Sensor Tone does not sound.**
✔ The preout jack is being used.
☞ The Touch Sensor Tone cannot be output from the preout jack.

? **Switching between negative and positive display modes takes place automatically.**
✔ Switching between negative and positive display modes takes place automatically to maintain the initial brightness of the display for a long period of time.
☞ You can select "Display N/P: POSI" as mentioned in <Display-reversing Setting> (page 33).

Tuner source

? **Radio reception is poor.**
✔ The car antenna is not extended.
☞ Pull the antenna out all the way.
✔ The antenna control wire is not connected.
☞ Connect the wire correctly, referring to the section on <Connecting Wires to Terminals>.

Disc source

❓ The specified disc does not play, but another one plays instead.
   ✔ The specified CD is quite dirty.
      ☞ Clean the CD.
   ✔ The disc is loaded in a different slot from that specified.
      ☞ Eject the disc magazine and check the number for the specified disc.
   ✔ The disc is severely scratched.
      ☞ Try another disc instead.

❓ Cannot remove disc.
   ✔ Downloading picture.
      ☞ Eject is disabled while downloading picture.

Audio file source

❓ The sound skips when an Audio file is being played.
   ✔ The media is scratched or dirty.
      ☞ Clean the media, referring to the CD cleaning of the section on <Handling CDs> (page 6).
   ✔ The audio file is broken or not supported.
      ☞ Damaged and unsupported files are skipped.
   ✔ The recording condition is bad.
      ☞ Record the media again or use another media.

USB device source

❓ The USB device is not detected.
   ✔ The USB connector is disconnected.
      ☞ Connect the connector of the USB device properly.

❓ The USB device does not play its audio files.
   ✔ The USB connector is disconnected.
      ☞ Connect the connector of the USB device properly.

❓ Cannot USB remove mode.
   ✔ Downloading picture.
      ☞ USB remove mode is disabled while downloading picture.

The messages shown below display your systems condition.

Eject: • No disc magazine has been loaded in the changer. The disc magazine is not completely loaded.
              • No CD in the unit.

No Disc: No disc has been loaded in the disc magazine.

TOC Error: • No disc has been loaded in the disc magazine.
              • The CD is quite dirty. The CD is upside-down. The CD is scratched a lot.

Read Error: • The number of files or folders which are stored in the connected USB device is above the limitation.
              • The file system of the connected USB device is broken.
              ➪ Copy the files and folders for the USB device again referring to http://www.kenwood.com/usb/. If the error message is still displayed, initialize the USB device or use other USB devices.

Error 05:   The disc is unreadable.

Blank Disc: Nothing has been recorded on the MD.

No Track: No tracks are recorded on the MD, although it has a title.

No Panel: The faceplate of the slave unit being connected to this unit has been removed.

Error 77:   The unit is malfunctioning for some reason.
              ➪ Press the reset button on the unit. If the "Error 77" code does not disappear, consult your nearest service center.

Mecha Error: Something is wrong with the disc magazine. Or the unit is malfunctioning for some reason.
              ➪ Check the disc magazine. And then press the reset button on the unit. If the "Mecha Error" code does not disappear, consult your nearest service center.

Hold Error: The protective circuit in the unit activates when the temperature inside the automatic disc changer exceeds 60℃ (140℉), stopping all operation.
              ➪ Cool down the unit by opening the windows or turning on the air conditioner. As the temperature falls below 60℃ (140℉), the disc will start playing again.

No Name: Attempted to display DNPS during the CD play having no disc names preset.

Load: Discs are being exchanged in the Disc changer.

Checking:
Reading: The unit is reading the data on the disc, USB device or Internal Memory.

IN (Blink):   The CD player section is not operating properly.
              ➪ Reinsert the CD. If the CD cannot be ejected or the display continues to flash even when the CD has been properly reinserted, please switch off the power and consult your nearest service center.

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Troubleshooting Guide

Protect: The speaker wire has a short-circuit or touches the chassis of the vehicle, and then the protection function is activated.
➪ Wire or insulate the speaker cable properly and press the reset button. If the "Protect" code does not disappear, consult your nearest service center.

Unsupported File:
An Audio file is played with a format that this unit cannot support.

Copy Protection:
A copy-protected file is played.

DEMO MODE: The Demonstration mode has been selected.
➪ The <Demonstration mode Setting> (page 37) is ON. Turn it OFF.

No Device: The USB device is selected as a source although no USB device is connected.

N/A Device: An unsupported USB device is connected.
➪ For the supported USB devices, refer to <http://www.kenwood.com/usb/>.

No Music Data/ Error 15:
• The connected USB device contains no playable audio file.
• The Internal Memory source contains no playable audio file.
• Media was played that does not have data recorded that the unit can play.

USB ERROR: The connected USB device is rated a current capacity higher than the allowable limit.
➪ Check the USB device with reference to <http://www.kenwood.com/usb/>.
Some trouble may have occurred to the connected USB device.
➪ Change the source to any source other than USB. Remove the USB device.

iPod Error: Connection to the iPod has failed.
➪ Remove the USB device and then reconnect it.
➪ Confirm that the software for the iPod is the latest version.

USB REMOVE: The Remove mode has been selected for the USB device. You can remove the USB device safely.

Over Capacity: Recording or copying was canceled because internal memory space ran out while recording from music CD or copying from USB device.
➪ Delete unnecessary files and record or copy once more.

Name Exists. Raname... :
Name Exists. Auto Rename? :
The name entered while recording CD already exists. Or a file or folder with the same name already exists while copying from USB device.
➪ Change the name or delete the existing file and record or copy once more.

Import Error: Recording is canceled because there is a scratch on the CD and it cannot be played.

Copy Error: • An incompatible digital audio player was used.
• Cannot copy because the USB device is not firmly inserted.

Delete Error:
Format Error: Abnormal condition detected while deleting or formatting.
➪ Repeat the operation once more. This may take some time. If the message recurs, contact your nearest Kenwood dealer.

Can't Download:
Download Error:
This unit does not work properly for some reason.
➪ Press the reset button to download it again. If this error is still displayed, consult a local Kenwood dealer.
➪ Try all over again from the start. If this error is still displayed, consult a local Kenwood dealer.

No Display File:
No file that can be downloaded is contained in the CD-R/ CD-RW/ USB device.
➪ Make sure that a files created with referring to <http://www.kenwood.net-disp.com> is contained in the CD-R/ CD-RW/ USB device.
Do not delete the extension (.kbm) created when the file was created.

Incorrect File: The file selected to be downloaded has a format that this unit cannot read.
➪ Recreate the file.

Writing Error: Writing failed while the file was downloaded.
➪ Try the downloading again.

Specifications

Specifications subject to change without notice.

FM tuner section

Frequency range (50 kHz space)
 : 87.5 MHz – 108.0 MHz
Frequency range (200 kHz space)
 : 87.9 MHz – 107.9 MHz
Usable sensitivity (S/N = 30dB)
 : 9.3dBf (0.8 μV/75 Ω)
Quieting Sensitivity (S/N = 50dB)
 : 15.2dBf (1.6 μV/75 Ω)
Frequency response (±3 dB)
 : 30 Hz – 15 kHz
Signal to Noise ratio (MONO)
 : 70 dB
Selectivity (±400 kHz)
 : ≥ 80 dB
Stereo separation (1 kHz)
 : 40 dB

AM tuner section

Frequency range (9 kHz space)
 : 531 kHz – 1611 kHz
Frequency range (10 kHz space)
 : 530 kHz – 1700 kHz
Usable sensitivity (S/N = 20dB)
 : 28 dBμ (25 μV)

CD player section

Laser diode
 : GaAlAs
Digital filter (D/A)
 : 8 Times Over Sampling
D/A Converter
 : 1 Bit
Spindle speed (Audio file)
 : 1000 – 400 rpm (CLV 2times)
Wow & Flutter
 : Below Measurable Limit
Frequency response (±1 dB)
 : 10 Hz – 20 kHz
Total harmonic distortion (1 kHz)
 : 0.008 %
Signal to Noise ratio (1 kHz)
 : 110 dB
Dynamic range
 : 93 dB
MP3 decode
 : Compliant with MPEG-1/2 Audio Layer-3
WMA decode
 : Compliant with Windows Media Audio
AAC decode
 : AAC-LC ".m4a" files
WAV decode
 : Linear-PCM

USB Interface

USB Standard
 : USB 1.1/ 2.0
Maximum Supply current
 : 500 mA
File System
 : FAT16/ 32
MP3 decode
 : Compliant with MPEG-1/2 Audio Layer-3
WMA decode
 : Compliant with Windows Media Audio
AAC decode
 : AAC-LC ".m4a" files
WAV decode
 : Linear-PCM

Audio section

Maximum output power
 : 50 W x 4
Full Bandwidth Power (at less than 1% THD)
 : 22 W x 4
Speaker Impedance
 : 4 – 8 Ω
Tone action
 Band 1 : 60 – 200 Hz ±9 dB
 Band 2 : 250 – 1k Hz ±9 dB
 Band 3 : 1.25k – 4k Hz ±9 dB
 Band 4 : 5k – 16k Hz ±9 dB
Preout level / Load (during disc play)
 : 5000 mV/10 kΩ
Preout impedance
 : ≤ 80 Ω

Auxiliary input

Frequency response (±1 dB)
 : 20 Hz – 20 kHz
Input Maximum Voltage
 : 1200 mV
Input Impedance
 : 100 kΩ

General

Operating voltage (11 – 16V allowable)
 : 14.4 V
Current consumption
 : 10 A
Installation Size (W x H x D)
 : 182 x 53 x 155 mm
Weight
 : 1.5 kg

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