

KENWOOD

CD-RECEIVER

KDC-X891

INSTRUCTION MANUAL

Kenwood Corporation



Take the time to read through this instruction manual.

Familiarity with installation and operation procedures will help you obtain the best performance from your new CD-receiver.

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your Kenwood dealer for information or service on the product.

Model KDC-X891 Serial number _____

US Residence Only

Register Online

Register your Kenwood product at
www.Kenwoodusa.com

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Safety precautions

WARNING

To prevent injury while using this product, take the following safety precautions:

- To prevent a short circuit and possible fire, never put any metallic objects (such as coins or metal tools) inside the product.
- If you are the driver and your vehicle is moving, do not watch the product's display or use its controls for an extended period.
- Do not use this product in any way that prevents you from driving safely.
- Follow all driving laws and use common sense when using this product.

NOTE:

- Like your vehicle's speedometer, G-Analyzer is no more than a measuring function. The HP or G value measured by this unit may not be completely accurate due to its simplified method of measurement. The G-Analyzer is only for reference and should not be used to confirm the horsepower specifications of your vehicle.
- 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 3-in. CDs in the CD slot

If you try to load a 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.

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

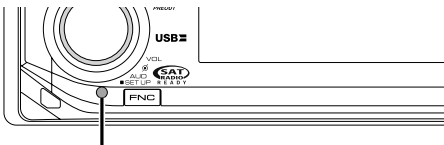
The "AAC" logo is trademark of Dolby Laboratories.

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.
- We recommend the use of <Activating Security Code> (page 35) to prevent theft.
- The characters conforming to ISO 8859-1 character set can be displayed.
- The RDS feature won't work where the service is not supported by any broadcasting station.
- There are places in this manual where lit indicators are described; however, the only time an indicator will light is in the following settings. When Status Display is set to On as mentioned in <Status Setting> (page 11).
- The illustrations of the display 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 26).
- 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 erase characters.

Cleaning the Faceplate Terminals

If the terminals on the unit or faceplate get dirty, wipe them with a clean soft dry 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 43).

About KENWOOD "Music Editor" of PC application attached to KDC-X891

- "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

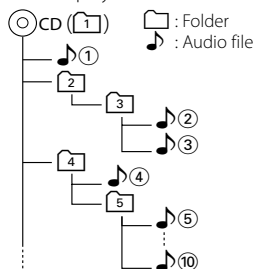
• Playable USB device file system

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/USB device/Audio file/External disc control features> (page 25).
- 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 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 recall by turning the Control knob.
4. Press the Control knob for at least 1 second.

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.

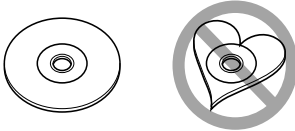
Notes


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 . 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.)

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

Kenwood Corporation
2967-3, ISHIKAWA-MACHI,
HACHIOJI-SHI
TOKYO, JAPAN

KENWOOD CORP. CERTIFIES THIS EQUIPMENT
CONFORMS TO DHHS REGULATIONS NO.21 CFR
1040. 10, CHAPTER 1, SUBCHAPTER J.

Location : Bottom Panel

FCC WARNING

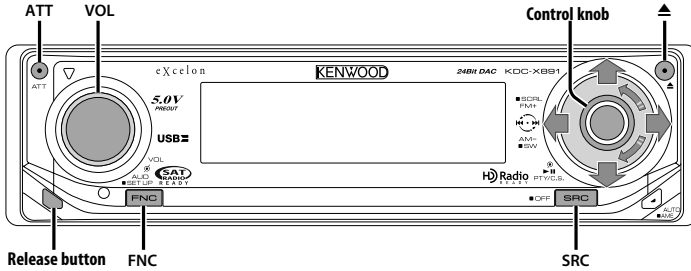
This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

General features



Function icon



Power

Turning ON the Power

Press the [SRC] button.

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
Satellite radio (Optional accessory)	"SAT"
Tuner or HD Radio (Optional accessory)	"TUNER" or "HD Radio"
USB device (iPod)	"USB" ("iPod")
CD	"Compact Disc"
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 36).
- USB (iPod) 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.

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 Basic 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 Basic Audio item

Turn the [VOL] knob.

Adjustment Item	Display	Range
Rear Volume	"REAR VOLUME"	0 — 35
Subwoofer level	"SUB-W LEVEL"	-15 — +15
System Q	"USER"/"ROCK"/ "POPS"/"EASY"/ "TOP40"/"JAZZ"/ "NATURAL"	User/Rock/Pops/Easy/Top 40/Jazz/Natural
Bass level*	"BASS LEVEL"	-8 — +8
Middle level*	"MIDDLE LEVEL"	-8 — +8
Treble level*	"TREBLE LEVEL"	-8 — +8
Balance	"BALANCE"	Left 15 — Right 15
Fader	"FADER"	Rear 15 — Front 15

Exit Audio Control mode. (Volume control mode)

* You can adjust these items in detail. Refer to <Adjusting the detail of Audio Control>(Page9).

* Source tone memory: Puts the set up value in the memory per source. (Detail Audio item is included)

About System Q

- You can recall the best sound setting preset for different types of music.
- Change each setting value with the <Speaker Setting> (page 10). First, select the speaker type with the Speaker setting.
- "USER": The ranges selected lastly for Bass level, Middle level, and Treble level are recalled automatically.

5 Exit Audio Control mode

Press any button.

Press a button other than the [VOL] knob, [▲] and [ATT] button.

Adjusting the detail of Audio Control

Among the Basic Audio items, you can adjust the Bass level, Middle level, and Treble level in detail.

1 Select the Basic Audio item

Select the desired item to be set in detail from followings;

- Bass level
- Middle level
- Treble level

For how to select Basic Audio items, see <Audio Control> (page 8).

2 Enter Detail adjustment mode of Audio Control

Press the [VOL] knob for at least 1 second.

3 Select the Detail 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 Detail Audio item

Turn the [VOL] knob.

Bass level

Adjustment Item	Display	Range
Bass Center Frequency	"BASS FRQ"	40/50/60/70/80/100/120/150 Hz
Bass Q Factor	"BASS Q FACTOR"	1.00/1.25/1.50/2.00
Bass Extend	"BASS EXT"	OFF/ON

Middle level

Adjustment Item	Display	Range
Middle Center Frequency	"MIDDLE FRQ"	0.5/1.0/1.5/2.0 kHz
Middle Q Factor	"MIDDLE Q FACTOR"	1.00/2.00

Treble level

Adjustment Item	Display	Range
Treble Center Frequency	"TREBLE FRQ"	10.0/12.5/15.0/17.5 kHz

5 Exit the Detail Audio Control mode

Press the [VOL] knob for at least 1 second.



- When you set the Bass Extend to ON, low frequency response is extended by 20%.
- You can exit the Audio Control mode at anytime by pressing any button except for [VOL], [▲] and [ATT] buttons.

Audio Setup

Setting the Sound system, such as Cross over Network.

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
Front High Pass Filter	"HPF-F Fc"	Through/40/60/80/100/120/150/180/220 Hz
Rear High Pass Filter	"HPF-R Fc"	Through/40/60/80/100/120/150/180/220 Hz
Low Pass Filter	"LPF-SW Fc"	50/60/80/100/120/Through Hz
Subwoofer Phase	"SW PHASE"	Reverse (180°)/ Normal (0°)
Volume offset	"VOL-OFFSET"	-8 — ±0 (AUX: -8 — +8)
Loudness	"LOUD"	OFF/ON
Dual Zone System	"2 ZONE"	OFF/ON



- Volume offset: Sets each source's volume as a difference from the basic volume.
- Loudness: Compensates for low and high tones during low volume. (Only the low tone is compensated for when the tuner is selected as a source.)
- 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 38).
 - 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 Audio Control has no effect on sub source.
- You can use the Dual Zone System with the internal auxiliary input.

5 Exit Audio Setup mode

Press the [VOL] knob for at least 1 second.

General features

Speaker Setting

Fine-tuning so that the System Q value is optimal when setting the speaker type.

1 Enter Standby

Press the [SRC] button.

Select the "STANDBY" display.

Refer to <Selecting the Source> (page 7).

2 Enter Speaker Setting mode

Press the [VOL] knob.

"SP SEL" is displayed.

3 Select the Speaker type

Turn the [VOL] knob.

Each time you turn the knob, the setting alternates between the settings shown in the table below.

Speaker type	Display
OFF	"OFF"
For 5 & 4 in. speaker	"5/4inch"
For 6 & 6x9 in. speaker	"6x9/6inch"
For the OEM speaker	"O.E.M."

4 Exit Speaker Setting mode

Press the [VOL] knob.

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, "SUB WOOFER ON" is displayed.

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 47).

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 34).
"Display Select"	"DISP"	Allows you to set up the display. Refer to page 11 to page 18.
"Angle Adjust"	"ANGLE"	Allows you to set the panel angle. Refer to <Angle Control> (page 19).
"Preset Memory"	"PMEM"	Allows you to put stations in the memory. Refer to <Station Preset Memory> (page 22).
"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 28).
"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.

Display Type Selection

Changing the display mode.

1 Enter Display Type Selection mode


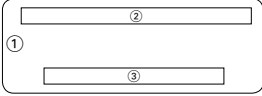
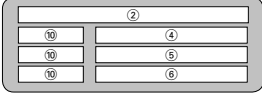
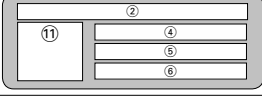
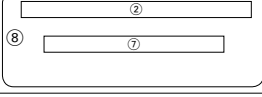

Using the Control knob, select "DISP" > "TYPE".

For the operation method, refer to <Function Control mode> (page 10).

2 Select the display Type

Turn the Control knob.

Select from the following display types:

Display Mode	Display
"TYPE SELECT [A]"	
"TYPE SELECT [B]"	
"TYPE SELECT [C]"	
"TYPE SELECT [D]"	
"TYPE SELECT [E]"	
"TYPE SELECT [F]"	

- ① Graphic display part
- ② Status display
- ③ Text display part
- ④ Upper text display part
- ⑤ Middle text display part
- ⑥ Lower text display part
- ⑦ Text display part
- ⑧ Graphic display part
- ⑨ G-Analyzer display part
- ⑩ Text icon display part
- ⑪ Source icon display part

3 Exit Display Type Selection mode

Press the Control knob.



- 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	C	D	E	F
Graphic ①	12	12	—	—	—	—
Status ②	11	11	—	—	—	—
Text ③	—	12	—	—	—	—
Upper ④	—	—	13	13	—	—
Middle ⑤	—	—	13	13	—	—
Lower ⑥	—	—	13	13	—	—
Text ⑦	—	—	—	—	12	—
G-Analyzer ⑨	—	—	—	—	—	15

Display Type A/ Display Type B

Status Setting

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

1 Enter Status Setting mode

Using the Control knob, select "DISP" > "STATUS".

For the operation method, refer to <Function Control mode> (page 10).

2 Select the Status display

Turn the Control knob.

3 Exit Status Setting mode

Press the Control knob.

General features

Display Type A/ Display Type B

Graphic Display Selection

Changing the graphic Display.

1 Enter Graphic Display Selection mode

Using the Control knob, select "DISP" > "GRAPH".

For the operation method, refer to <Function Control mode> (page 10).

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	
Downloaded movie*	
Wallpaper 1 – 6	
Downloaded Wallpaper*	
Wallpaper scan	"SCAN"

* For Download movie and Download Wall Paper, refer to <Picture downloading> (page 41).

3 Exit Graphic Display Selection mode

Press the Control knob.



- The setting of this function is available while "TYPE SELECT [A]"/ "TYPE SELECT [B]" is selected for the Display mode.

Text Display Selection

—Display Type B&E—

Selecting the text display.

1 Enter Text Display Selection mode

Using the Control knob, select "DISP" > "TEXT".

For the operation method, refer to <Function Control mode> (page 10).

2 Select the text

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

See <The text display> (page 14).

Display Type B: Information of condition column "③" is displayed.

Display Type E: Information of condition column "⑦" is displayed.

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.
- 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.
- In the Display Type B part, alternate information is displayed when display without information is selected.
- In the Display Type E part, no information is displayed when display without information is selected.

Text Display Selection

— Display Type C&D—

Changing the text display.

1 Enter Text Display Selection mode

Using the Control knob, select "DISP" > "TEXT".

For the operation method, refer to <Function Control mode> (page 10).

2 Select the text display part

Push the Control knob towards up or down.

The cursor (▶) moves to the selected text display part.

Select the text

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

See <The text display> (page 14).

Upper text display part: Information of condition column "④" is displayed.

Middle text display part: Information of condition column "⑤" is displayed.

Lower text display part: Information of condition column "⑥" is displayed.

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.
- 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 Upper text display part, Middle text display part and Lower text display part. However, the blank display is able to have multiple selections.
- In the upper text display part, alternate information is displayed when display without information is selected.
- In the middle text display part, the Kenwood logo is displayed if the contents of the information cannot be displayed. However, in the HD Radio source part, the display becomes blank.
- In the lower text display part, no information is displayed when display without information is selected.

General features

The text display

In Tuner source

Information	Display	Condition
Station name	"SNPS"	③ ④
Radio text (FM)	"Radio Text"	③ ④ ⑤ ⑥ ⑦
Frequency	"Frequency"	③ ④
Clock	"Clock"	③ ④ ⑤ ⑥ ⑦
Date	"Date"	③ ④ ⑤ ⑥ ⑦
Blank	"Blank"	⑤ ⑥ ⑦

In CD & External disc source

Information	Display	Condition
Disc title	"Disc Title"	③ ④ ⑤ ⑥ ⑦
Track title	"Track Title"	③ ④ ⑤ ⑥ ⑦
Track number & Play time	"P-Time"	③ ④
Disc name	"DNPS"	③ ④ ⑤ ⑥ ⑦
Clock	"Clock"	③ ④ ⑤ ⑥ ⑦
Date	"Date"	③ ④ ⑤ ⑥ ⑦
Blank	"Blank"	⑤ ⑥ ⑦

In Audio file source

Information	Display	Condition
Music title & Artist name	"Title/Artist"	③ ④ ⑤ ⑥ ⑦
Album name & Artist name	"Album/Artist"	③ ④ ⑤ ⑥ ⑦
Folder name	"Folder Name"	③ ④ ⑤ ⑥ ⑦
File name	"File Name"	③ ④ ⑤ ⑥ ⑦
Play time & Music number	"P-Time"	③ ④
Clock	"Clock"	③ ④ ⑤ ⑥ ⑦
Date	"Date"	③ ④ ⑤ ⑥ ⑦
Blank	"Blank"	⑤ ⑥ ⑦

In Standby

Information	Display	Condition
Standby	"Source Name"	③ ④
Clock	"Clock"	③ ④ ⑤ ⑥ ⑦
Date	"Date"	③ ④ ⑤ ⑥ ⑦
Blank	"Blank"	⑤ ⑥ ⑦

In Auxiliary input source

Information	Display	Condition
Auxiliary input name	"Source Name"	③ ④
Clock	"Clock"	③ ④ ⑤ ⑥ ⑦
Date	"Date"	③ ④ ⑤ ⑥ ⑦
Blank	"Blank"	⑤ ⑥ ⑦

In HD Radio source

Information	Display	Condition
Station name	"Station Name"	③ ④
Title	"Title"	③ ④ ⑤ ⑥ ⑦
Frequency	"Frequency"	③ ④
Clock	"Clock"	③ ④ ⑤ ⑥ ⑦
Date	"Date"	③ ④ ⑤ ⑥ ⑦
Blank	"Blank"	⑤ ⑥ ⑦

In Satellite radio source

Information	Display	Condition
Channel Name	"Channel Name"	③ ④ ⑤ ⑥ ⑦
Music Title	"Song Title"	③ ④ ⑤ ⑥ ⑦
Artist Name	"Artist Name"	③ ④ ⑤ ⑥ ⑦
Composer name	"Composer Name"	③ ④ ⑤ ⑥ ⑦
Category Name	"Category Name"	③ ④ ⑤ ⑥ ⑦
Label Name	"Label Name"	③ ④ ⑤ ⑥ ⑦
Comment	"Comment"	③ ④ ⑤ ⑥ ⑦
Band & Channel Number	"Channel Number"	③ ④
Clock	"Clock"	③ ④ ⑤ ⑥ ⑦
Date	"Date"	③ ④ ⑤ ⑥ ⑦
Blank	"Blank"	⑤ ⑥ ⑦

Display Type B/ Display Type C/ Display Type D

Font Color Selection

Selecting the display font color.

1 Enter Font Color Selection mode

Using the Control knob, select "DISP" > "COLOR".

For the operation method, refer to <Function Control mode> (page 10).

2 Select the text display part (Display Type C/ Display Type D only)

Push the Control knob towards up or down.

The cursor (▶) moves to the selected text display part.

3 Select the Font Color

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

4 Exit Font Color Selection mode

Press the Control knob.



- When you selected the Display Type B display, select an easy viewable font color.

Display Type F

G-Analyzer display Selection

Changing the G-Analyzer display.



- Before alternating G-Analyzer display, you are required to setup <G-Counter Level setting> (page 17), <G-Analyzer Calibration setup> (page 18), <G-Analyzer vehicle weight setup> (page 18) and <G-Analyzer vehicle class setup> (page 18).

1 Enter G-Analyzer display selection mode Using the Control knob, select "DISP" > "GMENU".

For the operation method, refer to <Function Control mode> (page 10).

2 Select the G-Analyzer display Turn the Control knob.

Select from the following displays.

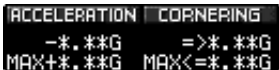
G-Force Sensor display



G- Graphic display
1 - 2
Downloaded G-
Graphic*



G-Meter display
(Graphic)



G-Meter display
(Text)



G-Counter display

* G-Graphic can be switched to customized pictures. Refer to <Picture downloading> (page 41).



- G-Graphic display
Displays the condition of G in horizontal direction (e.g; when turning the curve) by the graphic.
- G-Meter display (Graphic)
Displays the maximum value of acceleration G, right direction G, and left direction G by the numerical value.
- G-Meter display (Text)
The maximum value of acceleration G, right direction G, and left direction G is displayed by the numerical value. The value of G is only the reference, so is different from the actual value.

- G-Counter display
Adds the point of the acceleration level. The point is determined after a lapse of 1 hr drive or at power off (ACC Off), and then it will be displayed by the graph. Furthermore, the G-Counter displays the average of the past data by the line. (The scale of graph is determined along with the largest point among the past 10 data.)
- The value of G-Meter display and G-Counter display can be reset by <G-Analyzer Reset> (page 17).

3 Exit G-Analyzer display selection mode Press the Control knob.

General features

Display Type F

G-Analyzer Stop Watch

The control of stop watch can be started by G-Analyzer function.



- Do not use G-Analyzer stop watch on the Public roads.

1 Enter G-Analyzer Stop Watch mode Using the Control knob, select "DISP" > "GMA" > "STOP.W".

For the operation method, refer to <Function Control mode> (page 10).
"STOP WATCH" is displayed.

2 Make the counter ready

Press the Control knob.

"Ready" is displayed.

3 Start Count

When G in the vertical direction is detected during the travel, the count automatically starts.
"Running" is displayed.



- You can also start the counter by pressing the Control knob.

4 Stop Count

Press the Control knob.

"Stop" is displayed.



- The control will start again when you accelerate or press the Control knob.
Do the operation after step2.

When you Reset the Count (While "Stop" is displayed)

Press the Control knob for at least 1 second.



- You can reset of count when the count is stopped.

5 Exit G-Analyzer Stop Watch mode

Press the [FNC] button.



- When Power off (ex; ACC OFF) while counting, the value of 1 second or less will be "00".

Display Type F

G-Analyzer Horsepower Analysis

This measures the horsepower and displays graph and max power. It automatically saves the highest record.



- Do not use G-Analyzer Horsepower Analysis on the Public roads.
- Do not use this product in any way that prevents you from driving safely.
- Follow all driving laws and use common sense when using this product.



- Before alternating G-Analyzer Horsepower Analysis, you are required to setup <G-Analyzer vehicle weight setup> (page 18) and <G-Analyzer vehicle class setup> (page 18).

1 Enter G-Analyzer Horsepower Analysis mode Using the Control knob, select "DISP" > "GMA" > "HP".

For the operation method, refer to <Function Control mode> (page 10).
"HORSEPOWER" is displayed.
Previous max power and record are displayed.

2 Begin measurement

Press the Control knob.

"Ready" is displayed.

3 Start the car

"Measure" is displayed.
After 15 seconds of measurement, the result is displayed.

Display the result

The graph shows the variation in horsepower between 0.1 to 15.0 seconds. The maximum power is displayed in red and the markings provided at intervals of 5 seconds are displayed in blue.



- Pressing the Control knob also begins the measurement. To prevent danger, push the control knob before starting the car.

4 To display the maximum power in the section Push the Control knob towards right or left.

Each time you push the Control knob, the maximum power in the section is displayed.

5 Exit G-Analyzer Horsepower Analysis mode

Press the [FNC] button.



- Like your vehicle's speedometer, G-Analyzer is no more than a measuring function. The HP or G value measured by this unit may not be completely accurate due to its simplified method of measurement. The G-Analyzer is only for reference and should not be used to confirm the horsepower specifications of your vehicle.
- Measuring after starting the car lowers the accuracy.
- The record will not be renewed if the measurement is discontinued.
- The graph's scale adjusts automatically to the horsepower value.
- The value of max power and record can be reset by <G-Analyzer Reset> (page 17).

Display Type F

G-Analyzer Reset

Resets the value of G-Meter, G-Counter and G-Analyzer Horsepower Analysis.

1 Enter G-Analyzer Reset mode

Using the Control knob, select "DISP" > "GMA" > "RESET".

For the operation method, refer to <Function Control mode> (page 10).

"G-RESET" is displayed.

2 Select the Reset item

Turn the Control knob.

Display	Setting
"Meter Reset"	Reset the value of G-Meter.
"Power Reset"	Reset the value of G-Analyzer Horsepower Analysis.
"Counter Reset"	Reset the value of G-Counter.

3 Determine the item you want to reset

Press the Control knob.

4 Reset the value

Select "YES" using the Control knob.

"Reset OK" is displayed.

5 Exit G-Analyzer Reset mode

Press the [FNC] button.

Display Type F

G-Counter Level setting

Calibrating G-Point. Setting the level according to the kinds of vehicles.

1 Enter G-Counter Level setting mode

Using the Control knob, select "DISP" > "GMA" > "LEVEL".

For the operation method, refer to <Function Control mode> (page 10).

"G-COUNTER LEVEL" is displayed.

2 Select the G-Counter Level

Turn the Control knob.

Display	Setting
"Level1"	Counter is easy to go up.
"Level2"	:
"Level3"	Counter is hard to go up.

3 Exit G-Counter Level setting mode

Press the Control knob.



- In the case of driving situations calling for few accelerations, set the G-Point up to "Level1". In the case of frequent accelerations, set it up to "Level3".

General features

Display Type F
In Standby mode

G-Analyzer Calibration setup

G-Analyzer requires calibration for horizontal acceleration and braking.



- To ensure accurate calibration, go through the following steps at a level place where you can move the vehicle straight ahead.

1 Park the vehicle in a horizontal location

2 Enter G-Analyzer Calibration setup mode Using the Control knob, select "DISP" > "GMA" > "CAL".

For the operation method, refer to <Function Control mode> (page 10).

"G-CALIBRATION" is displayed.

3 Start Calibration of horizontal direction Press the Control knob.

Once "Move Forward" appears on the display, the vehicle must be advanced.

4 Start Calibration of straight direction

Start moving the vehicle ahead.

Calibration of straight direction automatically starts. When the Calibration is finished, "Calibration OK" is displayed.



- If you fail to complete the calibration, "No Calibration" is displayed. In such a case, repeat steps 1 through 4.

5 Exit G-Analyzer Calibration setup mode Press the [FNC] button.

Display Type F
In Standby mode

G-Analyzer vehicle weight setup

Enter vehicle weight to calculate horsepower.

1 Enter G-Analyzer vehicle weight setup mode Using the Control knob, select "DISP" > "GMA" > "HP SET" > "WEIGHT".

For the operation method, refer to <Function Control mode> (page 10).

"WEIGHT INPUT" is displayed.

2 Select the weight numbers Turn the Control knob.



- The weight input range is between 1000-9999 lbs.

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

4 Repeat steps 2 and 3, and complete the weight input.

5 Exit G-Analyzer vehicle weight setup mode Press the Control knob.

Display Type F
In Standby mode

G-Analyzer vehicle class setup

Enter vehicle class to calculate horsepower.

1 Enter G-Analyzer vehicle class setup mode Using the Control knob, select "DISP" > "GMA" > "HP SET" > "CLASS".

For the operation method, refer to <Function Control mode> (page 10).

"CLASS SELECT" is displayed.

2 Select vehicle class Turn the Control knob.

Each time you push the knob, the vehicle class alternates between the modes shown in the table below.

Display
"Mid Size"
"Full Size"
"SUV"
"Van/ Mini-Van"
"Pickup Truck"
"Sporty"
"Compact"

3 Exit G-Analyzer vehicle class setup mode Press the Control knob.

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 10).

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.

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 10).

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.

General features

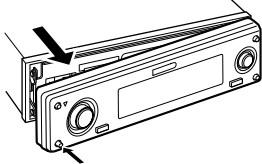
Theft Deterrent Faceplate

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

Removing the Faceplate

Press the Release button.

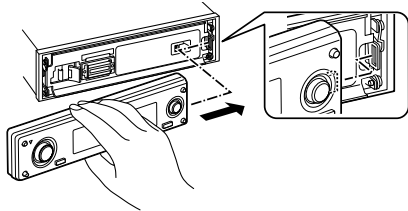
The faceplate is unlocked, allowing you to detach it.



- 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.

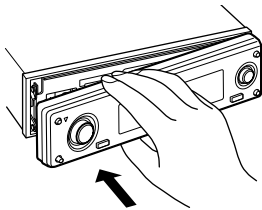
Reattaching the Faceplate

1 Align the shaft on the unit with the depression on the faceplate.

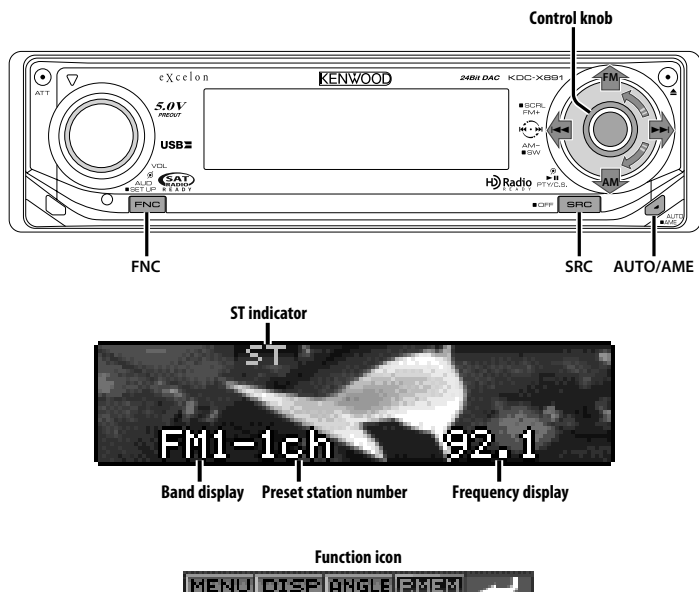


2 Push the faceplate in until it clicks.

The faceplate is locked in place, allowing you to use the unit.



Tuner features



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 [◀◀] or [▶▶].



- 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 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]

Canceling Direct Access Tuning

Press the [DIRECT] button on the remote control.

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.MEM".

For the operation method, refer to <Function Control mode> (page 10).

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.

Canceling 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.

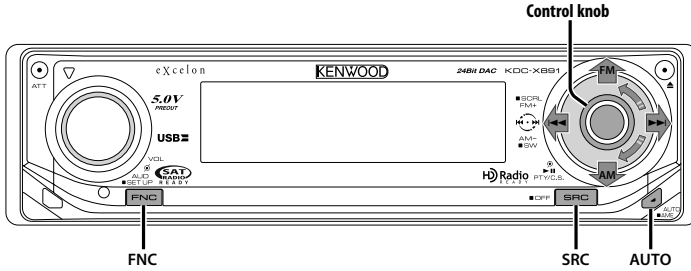
4 Recall the station

Press the Control knob.

Canceling Preset Tuning

Press the [FNC] button.

RDS features



Radio Text Scroll

Scrolling the displayed radio text.

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



- When the <Display Illumination Control> (page 37) is set to OFF, the display may black out while scrolling.

PTY (Program Type)

Selecting the Program Type and searching for a station.

1 Enter PTY mode

Press the Control knob.

"PTY SELECT" is displayed.



- The PTY function cannot be used during a traffic bulletin or AM reception.

2 Select the Program Type

Turn the Control knob or push it towards up or down.

No.	Program Type	Display
1.	Speech	"All Speech"
2.	Music	"All Music"
3.	News	"News"
4.	Information	"Information"
5.	Sports	"Sports"
6.	Talk	"Talk"
7.	Rock	"Rock"
8.	Classic Rock	"Classic Rock"
9.	Adult Hits	"Adult Hits"
10.	Soft Rock	"Soft Rock"
11.	Top 40	"Top 40"
12.	Country	"Country"
13.	Oldies	"Oldies"
14.	Soft	"Soft"
15.	Nostalgia	"Nostalgia"
16.	Jazz	"Jazz"
17.	Classical	"Classical"
18.	R & B	"Rhythm & Blues"
19.	Soft R & B	"Soft R & B"
20.	Language	"Foreign Language"
21.	Religious Music	"Religious Music"
22.	Religious Talk	"Religious Talk"

Next page ▶

23.	Personality	"Personality"
24.	Public	"Public"
25.	College	"College"
26.	Weather	"Weather"



- Speech and Music include the Program type below.
Music: No.7 — 19, 21
Speech: No.3 — 6, 20, 22 — 26
- The Program Type can be put in the preset memory and recalled quickly. Refer to the <Program Type preset> (page 24).

3 Search for the selected Program Type station

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

When you want to search for other stations, push toward [◀◀] or [▶▶] of the Control knob again.



- When selected Program Type is not found, "No PTY" is displayed. Select another Program Type.

4 Exit PTY mode

Press the Control knob.

Registration of a station as a PTY

Registering a Program Type for stations with no PTY data.

1 Receive the station you want to register

2 Select the Program Type to register

Refer to <PTY (Program Type)> (page 23).

3 Register the Program Type

Press the [AUTO] button for at least 2 seconds.

Confirming the Program Type

Press the [AUTO] button.

The Program Type is displayed for 5 seconds.

4 Exit PTY mode

Press the Control knob.

Program Type preset

Putting the Program Type in the Preset button memory and quick recall.

Presetting the Program Type

1 Select the Program Type to preset

Refer to <PTY (Program Type)> (page 23).

2 Enter Program Type preset mode

Press the [FNC] button.

3 Select the number you want to put in the memory

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

4 Preset the Program Type

Press the Control knob for at least 1 second.

5 Exit Program Type preset mode

Press the [FNC] button.

Recalling the preset Program Type

1 Enter PTY mode

Refer to <PTY (Program Type)> (page 23).

2 Enter Program Type preset mode

Press the [FNC] button.

3 Select the number you want to recall from the memory

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

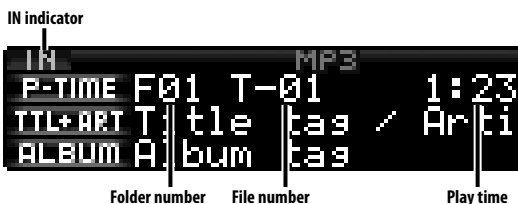
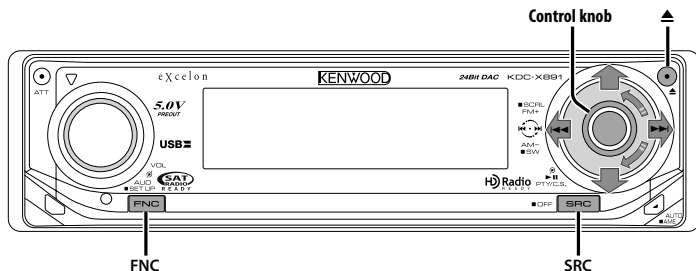
4 Recall the Program Type

Press the Control knob.

5 Exit Program Type preset mode

Press the [FNC] button.

CD/USB device/Audio file/External disc control features



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).

Pause and play

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

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.

CD/USB device/Audio file/External disc control features

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 26).
- 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.

Pause and play

Press the Control knob.

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

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.**

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 26), remove the Card Reader, and then insert the memory.

Playing External Disc

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

Press the [SRC] button.

Refer to <Selecting the Source> (page 7).

Select the display for the disc player you want.

Display examples:

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

Pause and play

Press the Control knob.

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



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

Fast Forwarding and Reversing

Fast Forwarding

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

Reversing

Hold down toward [◀◀] 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 [◀◀] or [▶▶].

Function of disc changer/ Audio file

Disc Search/Folder/Album Search

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

Push the Control knob towards up or down.



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

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 [◀◀] or [▶▶] 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.

CD/USB device/Audio file/External disc control features

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>.

When the play function is turned on, "ON" is displayed.

Display	Icon	Function
"File Scan"	"SCAN"	Plays the beginnings of the audio files in the current folder or genre one after another for 10 seconds each.
"Folder RDM"	"RDM"	Plays the audio files in the current folder or genre at random.
"All Random"	"A.RDM"	Plays the audio files in the current disk or USB device at random.
"File Repeat"	"FiREP"	Plays the current audio file repeatedly.
"Folder Repeat"	"FoREP"	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"	"RDM"	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"	"T.REP"	Plays the current music on the current CD/MD repeatedly.
"Disc Repeat"	"D.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.

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.

Canceling 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 36).

Text/Title Scroll

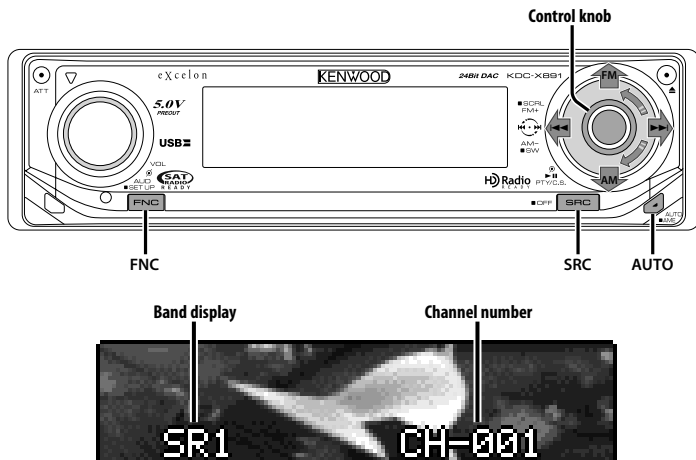
Scrolling the displayed CD text, Audio file text, or MD title.

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



- When the <Display Illumination Control> (page 37) is set to OFF, the display may black out while scrolling.

Satellite Radio tuner control features



Function icon



Select Satellite Radio Mode

Selecting the Satellite Radio Tuner (optional accessory) connected to this unit.

Selecting Satellite Radio Mode

Press the [SRC] button.

Select the "SAT" display.

Refer to <Selecting the Source> (page 7).



- You need to register to the service provider to receive the service by Satellite Radio. Consult the service provider if "CALL TO SUBSCRIBE" appears.
- The radio may take a little time to start receiving after you select the Satellite Radio source.
- If the signal reception fails, "Acquiring Signal" appears.

Switching Seek Mode

Sets the seeking mode.

Press the [AUTO] button.

Each time you press the button, the Seek mode alternates between the operations shown in the table below.

Display	Operation
"Seek : Channel"	Normal manual seeking control.
"Seek : Preset"	Search in order of the channels in the Preset memory.

Select the channel

Selecting the channel.

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

Category and Channel Search

Selecting the channel and category you want to receive.

1 Enter Category and Channel Search mode

Press the Control knob.

2 Select the Category

Push the Control knob towards up or down.



- It is the item when the category of Middle text display part is selected.

3 Select the Channel

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



- You cannot Channel search until the category information is acquired.

Canceling Category and Channel Search mode

Press the Control knob.

Function of remote control

Direct Access Tuning

Entering the channel and tuning.

1 Enter Direct Access Tuning mode

Press the [DIRECT] button on the remote control.

2 Enter the channel

Press the number buttons.

3 Do Channel Search

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

Canceling Direct Access Tuning

Press the [DIRECT] button on the remote control.



- If you make no button operation for 10 seconds, the Direct Access Tuning mode is automatically canceled.
- If you cannot receive any signal in the input Channel due to bad conditions on radio wave or other such problems, "Acquiring Signal" appears.

Selecting the Preset Band

Push the Control knob toward [FM].

Each time you push the knob, the preset band alternates between the SR1, SR2, SR3 and SR4.

Channel Preset Memory

Putting the channel in the memory.

1 Select the preset band

Push the Control knob toward [FM].

2 Select the channel to put in the memory

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

3 Enter Preset Memory mode

Using the Control knob, select "P.MEM".

For the operation method, refer to <Function Control mode> (page 10).

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.

Canceling the Preset Memory mode

Press the [FNC] button.



- Only the channel number is stored. Category information is not stored.

Satellite Radio tuner control features

Preset Tuning

Recalling the channels in the memory.

1 Select the preset 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.

Channel Scan

Checks every receivable Channel for 10 seconds.

1 Start Channel Scan

Press the [AUTO] button for at least 2 seconds.

The channel number display blinks.

2 Release the button when the music you want to hear is received

Press the [AUTO] button for at least 2 seconds.

Text Scroll for Satellite Radio source

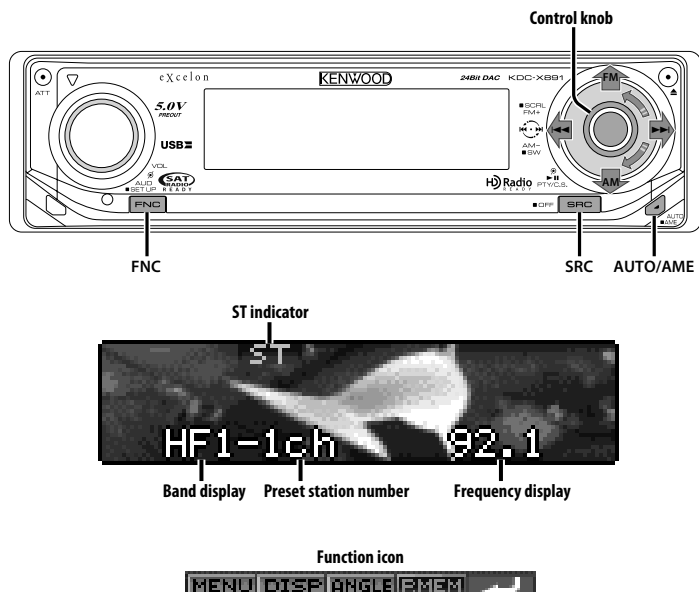
Scrolls the displayed channel name and other items.

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



- When the <Display Illumination Control> (page 37) is set to OFF, the display may black out while scrolling.

HD Radio control features



About HD Radio

- When you connect an HD Radio, Tuner features of the unit are disabled and changed to HD Radio tuner features. A portion of the setting methods including the Tuning Mode will change.
- With the HD Radio tuner, you can use the similar functions to <Station Preset Memory>, <Auto Memory Entry>, and <Preset Tuning> of Tuner features. Refer to Tuner features for how to use the functions.

Tuning

Selecting the station.

1 Select HD Radio source Press the [SRC] button.

Select the "HD Radio" display.
Refer to <Selecting the Source> (page 7).

2 Select the HD FM band Push the Control knob toward [FM].

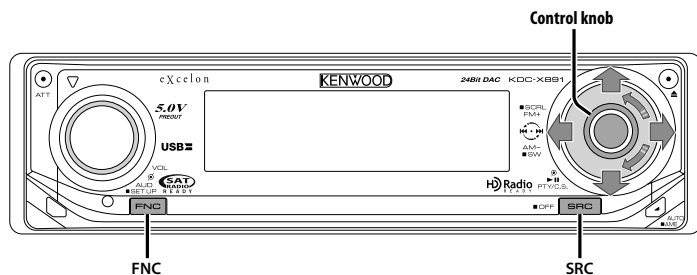
Each time you push the knob to [FM], the band alternates between the HF1, HF2, and HF3 bands.

Select the HD AM band Push the Control knob toward [AM].

3 Tune up or down band

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

Menu system



Function icon



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 10).

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.

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.
- Three menu items appear on the display. The menu item displayed at the center is the one you can adjust.

In Standby mode

Activating 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.



- You can set the Security Code with a 4 digit number of your choice.
- The Security Code cannot be displayed or referenced. Make a note of the Security Code and treasure it up.

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 10).

"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 operation, and reenter the Security Code.

"Approved" is displayed.

The Security Code function activates.



- If you enter the wrong Code in steps 4 through 6, repeat 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 operation, and enter the Security Code.

"Approved" is displayed.

Now, you can use the unit.



- When the Security Code function is activated, "Security Set" changes to "Security Clear".
- To deactivate the Security Code function, see the next section <Deactivating Security Code>.

In Standby mode

Deactivating Security Code

To deactivate the Security Code function.

1 Select Security Code mode

Turn the Control knob.

Select the "Security Clear" display.

2 Enter Security Code mode

Press the Control knob for at least 1 second.

When "Enter" is displayed, "SECURITY CLEAR" is also displayed.

3 Select the digits to enter

Push the Control knob towards right or left.

4 Select the Security Code numbers

Turn the Control knob or push it towards up or down.

5 Repeat steps 3 and 4, and complete the Security Code.

6 Press the Control knob for at least 3 seconds.

"Clear" is displayed.

The Security Code function deactivates.

7 Exit Security Code mode

Press the [FNC] button.



- If a wrong security code is entered, "Error" is displayed. Enter a correct security code.

Menu system

In Standby mode

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.

In USB mode with iPod connected

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.

In Standby mode

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



- You can do this adjustment when the <Synchronize Clock> (page 37) is set as OFF.

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

Synchronize Clock

Synchronizing the RDS station time data and this unit's clock.

Display	Setting
"SYNC : OFF"	Adjust the time manually.
"SYNC : ON"	Synchronizes the time.



- It takes 3 to 4 minutes to synchronize the clock.

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 43) 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 doesn't dim.

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.

Menu system

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.

In Audio file source

Supreme Setting

When AAC, MP3 or WMA files encoded at a low bit rate (less than 96kbps (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.

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



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

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 "AMS 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.

Other than Standby mode

Traffic Information

Switching to traffic information automatically when a traffic bulletin starts even when you aren't listening to the radio.

Display	Setting
"TI : OFF"	The Traffic Information function is OFF.
"TI : ON"	The Traffic Information function is ON.

When a traffic bulletin starts, "Traffic INFO" is displayed and it switches to traffic information.



- During reception of an AM station when the Traffic Information function is turned ON, it switches to an FM station.
- During reception of traffic information the adjusted volume is automatically remembered, and the next time it switches to traffic information it's automatically the remembered volume.

Receiving other traffic information stations (In tuner source)

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



- You can change the traffic information station when listening to the radio.

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.

In HD Radio mode

Receive mode Setting

Sets the receive mode.

1 Select the Receive mode

Turn the Control knob.

Select the "Receive Mode" display.

2 Enter Receive mode

Press the Control knob for at least 1 second.

3 Set the Receive mode

Push the Control knob towards up or down.

Each time you push the knob, the Receive mode alternates between the modes shown in the table below.

Receive mode	Display	Operation
Auto mode	"Auto"	Analog broadcasts and digital broadcasts will be switched automatically. When both are being transmitted, the digital broadcast will have priority.
Digital	"Digital"	Digital broadcasts only.
Analog	"Analog"	Analog broadcasts only.

4 Exit Receive mode

Press the [FNC] button.



- Even if the Receive mode is set to "Auto", when the Ball game mode program (non-delayed broadcast program) is received, the Receive mode will automatically switch to Analog broadcast only.

In Satellite radio source

Electronic Serial Number (ESN) display

Displaying the Electronic Serial Number.

Display
"ESN=*****"



• Electronic Serial Number (ESN)

It is important to retain the unit serial number and the electronic Satellite radio Identification number for service activation and potential service changes.

Menu system

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 19).

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 10).

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.

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
 - Radio text
 - Text for the Satellite radio source, HD Radio source, including Channel name, etc.

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.

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 movies, wallpapers and G-Graphic. You can use downloaded pictures for the display of this unit.

1 Connected the USB device

Connect the USB device containing the files to be downloaded into this unit.



- Our URL <http://www.kenwood.net-disp.com> describes how to make 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 10).

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.

7 Start downloading

Press the Control knob for at least 2 seconds.

When the downloading finishes, "Finished" is displayed.



- Picture downloading may take as long as 10 minutes.
Quantity
(Movie, Picture)



Canceling 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.
 - Downloaded movie: 1 file
 - Wallpaper: 1 file
 - G-Graphic: 1 file
- When you download a new movie, it is overwritten to the currently downloaded movie.
Also, 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 12)
 - <G-Analyzer display Selection> (page 15)
- When you cannot download the pictures to this unit, there may be a problem with the 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.

Menu system

Other than Standby mode

Audio Preset Memory

Registering the value setup by Sound Control. The memory cannot be erased by the Reset button.

1 Setup Sound Control

Refer to the following operations to setup the Sound Control.

- <Audio Control> (page 8)
- <Audio Setup> (page 9)

2 Enter Menu mode

Using the Control knob, select "MENU".

For the operation method, refer to <Function Control mode> (page 10).
"MENU" is displayed.

3 Select Audio Preset mode

Turn the Control knob.

Select the "Audio Preset" display.

4 Enter Audio Preset mode

Press the Control knob for at least 1 second.

5 Select the Audio Preset Memory

Turn the Control knob.

Select the "Memory" display.

6 Determine whether to put the Audio Preset in the memory

Press the Control knob.

"Memory?" is displayed.

7 Put the Audio Preset in the memory

Select "YES" using the Control knob.

"Memory Completed" is displayed.

8 Exit Audio Preset mode

Press the [FNC] button.



- Register 1 pair of Audio Preset Memory. You cannot register by the source.
- When you press the Reset, all the sources will be the setting value which is registered.
- The following items cannot be registered.
Volume, Balance, Fader, Loudness, Volume offset, Dual Zone System, Rear Volume

Other than Standby mode

Audio Preset Recall

Recalling the sound setup registered by <Audio Preset Memory> (page 42).

1 Select the source

Press the [SRC] button.

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 10).
"MENU" is displayed.

3 Select Audio Preset mode

Turn the Control knob.

Select the "Audio Preset" display.

4 Enter Audio Preset mode

Press the Control knob for at least 1 second.

5 Select the Audio Preset Recall

Turn the Control knob.

Select the "Recall" display.

6 Determine whether to recall the Audio Preset

Press the Control knob.

"Recall?" is displayed.

7 Recall the Audio Preset

Select "YES" using the Control knob.

"Recall Completed" is displayed.

8 Exit Audio Preset mode

Press the [FNC] button.



- The User memory of "SYSTEM Q" in <Audio Control> (page 8) is changed to the value which was recalled.
- The source tone memory item of <Audio Control> (page 8) is changed to the value which was recalled by the selected source.

In Standby mode

Firmware version display

Displaying the firmware version with the unit.

Turn the Control knob.

Select the "F/W Version : " display.

In Standby mode

Demonstration mode setting

Sets the demonstration mode.

1 Select the Demonstration mode

Turn the Control knob.

Select the "DEMO Mode" display.

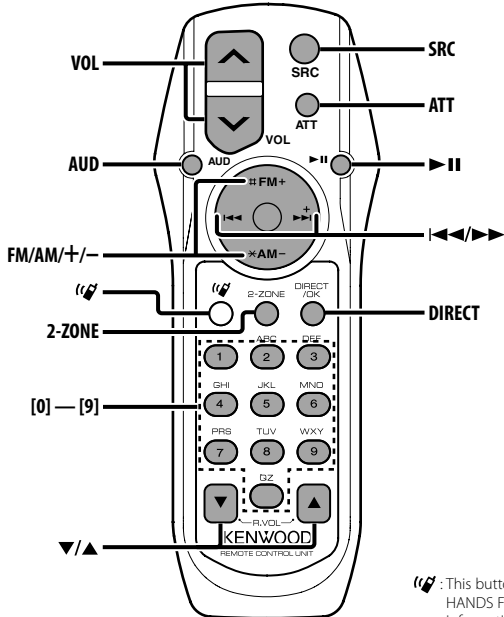
2 Set the Demonstration mode


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).

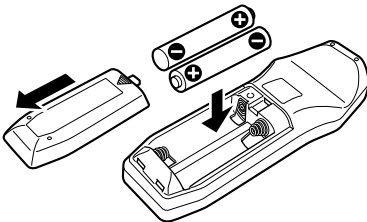
Basic Operations of remote control



 : 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.



▲WARNING

- Store unused batteries out of the reach of children.
Contact a doctor immediately if the battery is accidentally swallowed.



- Do not set the remote control in hot places such as on the dashboard.

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.
- The remote control can only select and adjust the Basic Audio item. Selecting and adjusting of the Detail Audio item cannot be done.

Dual Zone System

[2-ZONE] button

Each time you press the button, "2 ZONE" of <Audio Setup> (page 9) 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 22) mode.

[▶ II] button

Enters and cancels the <PTY (Program Type)> (page 23) mode.

In Disc/USB 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 27) and <Direct Disc Search> (page 27), enters the music/disc number.

In Satellite radio source

[FM] button

Selects the preset band.

[◀◀]/[▶▶] buttons

Searches up or down channels.

[0] — [9] buttons

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

[DIRECT] button

Enters and cancels the <Direct Access Tuning> (page 31) mode.

In HD Radio source

[FM] button

Selects the HD FM band.
Each time you press the [FM] button, the band alternates between the HF1, HF2, and HF3 bands.

[AM] button

Selects the HD AM band.

[◀◀]/[▶▶] buttons

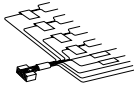




Tunes up or down bands.

[0] — [9] buttons

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

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.

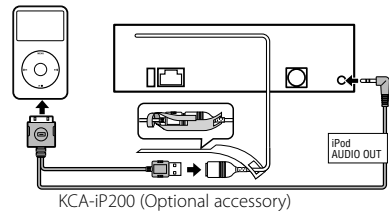
▲WARNING

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.



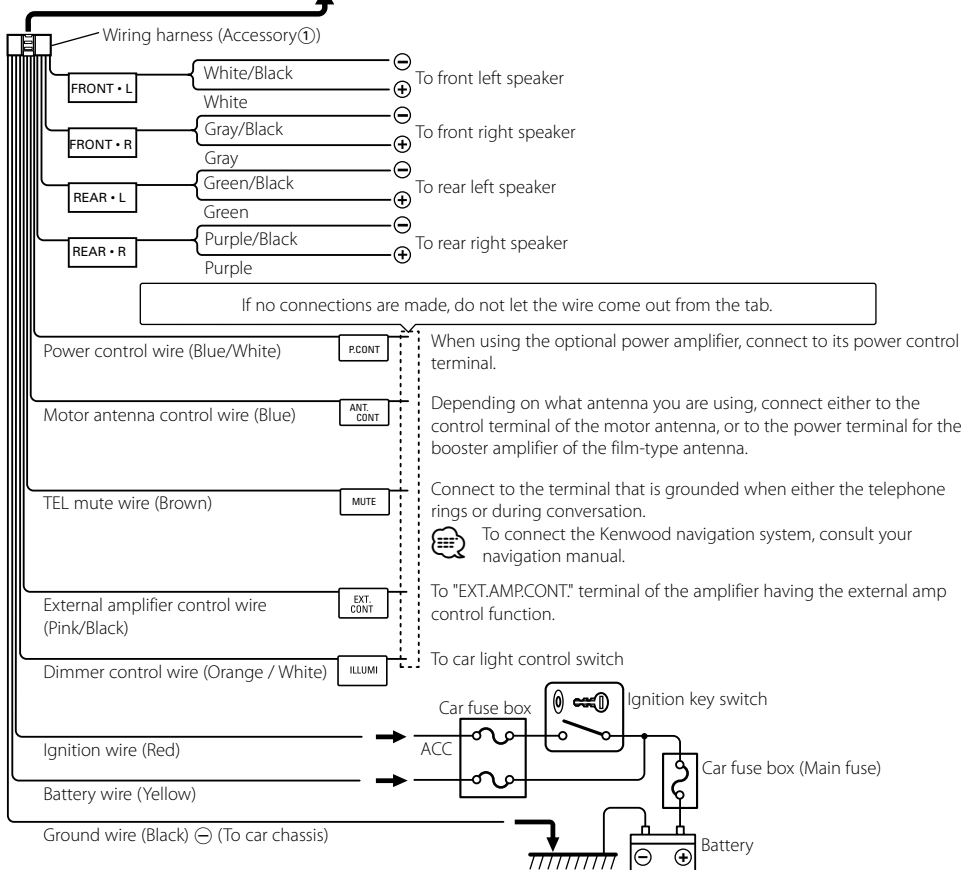
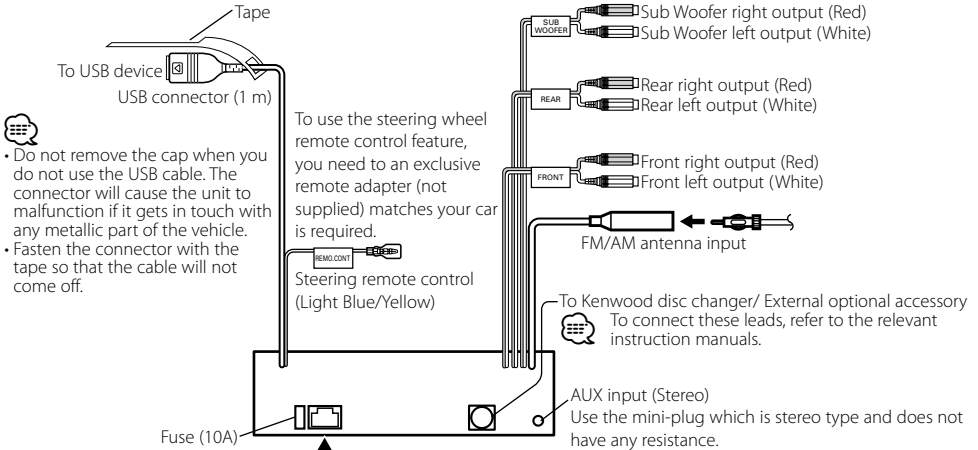
- If the power is not turned ON ("Protect" is displayed), the speaker wire may have a short-circuit or touched the chassis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.
- If your car's ignition does not have an ACC position, connect 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



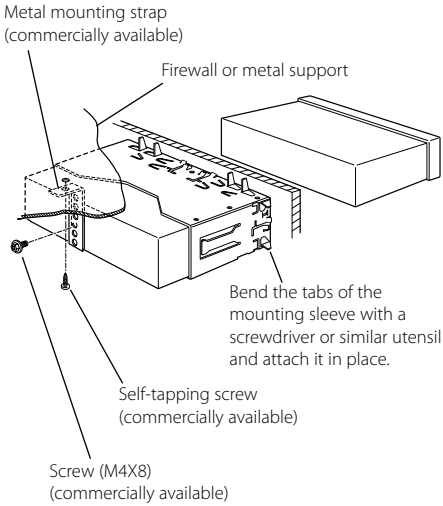
- No other optional accessory can be connected because the USB connector and the AUX input are used for iPod connection.
- Dual Zone System in <Audio Setup> (page 9) will become unavailable.

Connecting Wires to Terminals



Installation

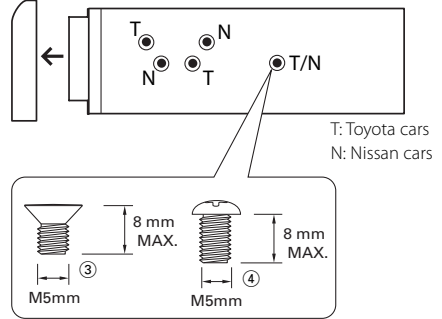
non-Japanese cars



- 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.



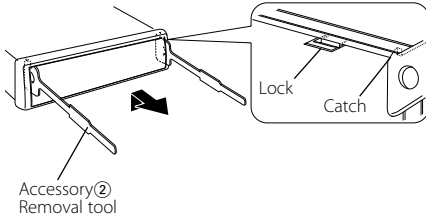
Accessory③...for Nissan car
Accessory④...for Toyota car



- 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.



- 2 When the upper level is removed, remove the lower two locations.

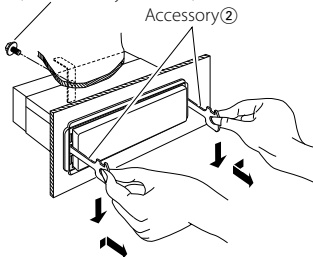


- The frame can be removed from the bottom side in the same manner.

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.

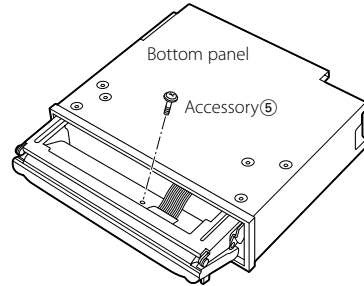
Screw (M4X8)
(commercially available)



- 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.




- 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.


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 40)
- ▶ AUX cannot be used when the KCA-iP200 is connected.


! • Cannot set up the subwoofer. • Cannot set up subwoofer phase. • No output from the subwoofer. • Cannot set up the low pass filter.

- ▶ <Subwoofer Output> (page 10) is not set to On.
- ▶ The Dual zone function is enabled.  <Audio Setup> (page 9)


! • Cannot set up the high pass filter. • Cannot set up the Fader.

- ▶ The Dual zone function is enabled.  <Audio Setup> (page 9)


! Cannot set up the subwoofer phase.

- ▶ Low pass filter is set to Through.  <Audio Setup> (page 9)

! • 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 9)

! No Audio control effect on AUX.

- ▶ The Dual zone function is enabled.  <Audio Setup> (page 9)

! • Cannot register a security code. • Cannot set up Display Illumination Control.

- ▶ <Demonstration mode Setting> (page 43) is not turned off.

! Cannot play audio files.

- ▶ <CD Read Setting> (page 40) is set to "2".

! • Cannot File select. • Cannot direct music serch.

- ▶ The Random play function is enabled.


! • The Traffic Information setting is ineffective. • The Synchronize Clock setting is ineffective.

- ▶ HD Radio is in use.

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 doesn't sound.

- ✓ The preout jack is being used.
-  The Touch Sensor Tone can't be output from the preout jack.




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.

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.

HD Radio source

? No sound can be heard, or the volume is low.

- ✓ The preset broadcast station is not transmitting in the mode that was set with <Receive mode Setting> (page 39).

☞ Please set <Receive mode Setting> to "Auto".

- ✓ In digital AM broadcasting, receive mode switches between stereo and monaural too often.
 - ☞ Receiving condition is bad or unstable. Stereo is chosen when receiving condition is good, and it switches to monaural when the condition becomes bad.

- ✓ HD Radio tuner is connected to KCA-S220A or other units.

☞ Connect the HD Radio tuner directly to this unit.

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.

The messages shown below display your systems condition.

Eject:	<ul style="list-style-type: none">• 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:	<ul style="list-style-type: none">• 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:	<ul style="list-style-type: none">• 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:	<p>The unit is malfunctioning for some reason.</p> <ul style="list-style-type: none">☞ Press the reset button on the unit. If the "Error 77" code does not disappear, consult your nearest service center.
Mecha Error:	<p>Something is wrong with the disc magazine. Or the unit is malfunctioning for some reason.</p> <ul style="list-style-type: none">☞ 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.

Troubleshooting Guide

Hold Error:	The protective circuit in the unit activates when the temperature inside the automatic disc changer exceeds 60°C (140°F), stopping all operation. ❖ Cool down the unit by opening the windows or turning on the air conditioner. As the temperature falls below 60°C (140°F), the disc will start playing again.	No Device:	The USB device is selected as a source although no USB device is connected. ❖ Change the source to any source other than USB. Connect an USB device, and change the source to USB again.
No Name:	Attempted to display DNPS during the CD play having no disc names preset.	N/A Device:	An unsupported USB device is connected. ❖ For the supported USB devices, refer to < http://www.kenwood.com/usb/ >.
Waiting:	<ul style="list-style-type: none">• Radio text data is being received.• Text for the Satellite Radio tuner source is being received.	No Music Data/ Error 15:	<ul style="list-style-type: none">• The connected USB device contains no playable audio file.• Media was played that doesn't have data recorded that the unit can play.
Load:	Discs are being exchanged in the Disc changer.	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.
Reading:	The unit is reading the data on the disc.	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.
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.	USB REMOVE:	The Remove mode has been selected for the USB device. You can remove the USB device safely.
Protect (Blink):	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 can't support. ❖ ----		
Copy Protection:	A copy-protected file is played. ❖ ----		
DEMO MODE (Blink):	The Demonstration mode has been selected. ❖ The <Demonstration mode Setting> (page 43) is ON. Turn it OFF.		

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 USB device.

- ✦ Make sure that a files created with referring to <<http://www.kenwood.net-disp.com>> is contained in the USB device. Do not delete the extension (.kbn) 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 (200 kHz space)
 - : 87.9 MHz – 107.9 MHz
- Usable sensitivity (S/N = 30dB)
 - : 9.3dBf (0.8 μ V/75 Ω)
- Quieting Sensitivity (S/N = 50dB)
 - : 15.2dBf (1.6 μ V/75 Ω)
- Frequency response (\pm 3 dB)
 - : 30 Hz – 15 kHz
- Signal to Noise ratio (MONO)
 - : 70 dB
- Selectivity (\pm 400 kHz)
 - : \geq 80 dB
- Stereo separation (1 kHz)
 - : 40 dB

AM tuner section

- Frequency range (10 kHz space)
 - : 530 kHz – 1700 kHz
- Usable sensitivity (S/N = 20dB)
 - : 28 dB μ (25 μ V)

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 (\pm 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 signal
 - : 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 signal
 - : 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
 - Bass : 100 Hz \pm 8 dB
 - Middle : 1 kHz \pm 8 dB
 - Treble : 10 kHz \pm 8 dB
- Preout level / Load (during disc play)
 - : 5000 mV/10 k Ω
- Preout impedance
 - : \leq 80 Ω

Auxiliary input

- Frequency response (\pm 1 dB)
 - : 20 Hz – 20 kHz
- Input Maximum Voltage
 - : 1200 mV
- Input Impedance
 - : 100 k Ω

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
 - 7-3/16 x 2-1/16 x 6-1/8 inch
- Weight
 - : 3.64 lbs (1.65 kg)

KENWOOD