

# KENWOOD

CD-RECEIVER

## KDC-X494 KDC-MP445U KMR-440U

### INSTRUCTION MANUAL

Kenwood Corporation

Before reading this manual, click the button below to check the latest edition and the modified pages.



**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-X494/ KDC-MP445U/ KMR-440U Serial number \_\_\_\_\_

#### **US Residence Only**

**Register Online**

Register your Kenwood product at [www.kenwoodusa.com](http://www.kenwoodusa.com)

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## Before use

### ▲WARNING

#### To prevent injury or fire, take the following precautions:

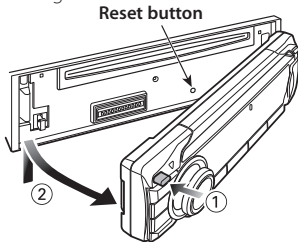
- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.

#### 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. Refer to <Exit Demonstration Mode> (page 4).

#### 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.



#### Cleaning the Unit

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

#### Unit and Faceplate Terminals

- To prevent deterioration, do not touch the terminals of the unit and faceplate with your fingers.
- If the terminals on the unit or faceplate get dirty, wipe them with a clean soft dry cloth.

#### 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.


#### Notes

- If you experience problems during installation, consult your Kenwood dealer.
- When you purchase optional accessories, check with your Kenwood dealer to make sure that they work with your model and in your area.
- Characters that conform to ISO 8859-1 can be displayed.
- 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.

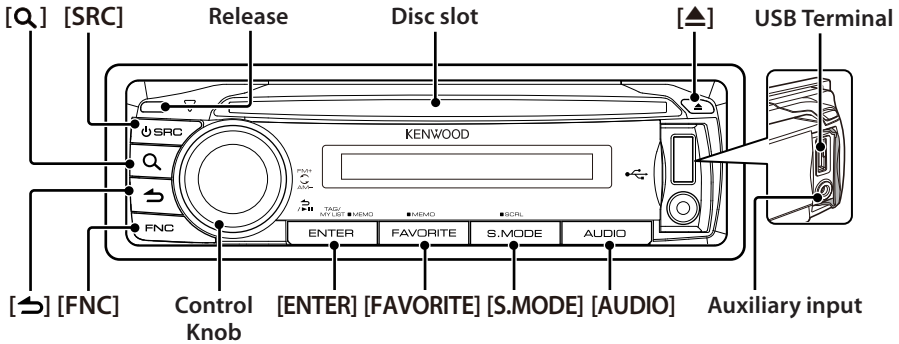
#### Handling CDs

- 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.)
- 3 inch CD cannot be used. Attempt to insert using an adapter can cause malfunction.

# Basic Operations



## Before Using

### Exit Demonstration Mode

Turn off the demonstration mode when you use it for the first time after installation.

- 1 Press the [ENTER] button to quit the demonstration mode when the messages "To Cancel DEMO Press the ENTER Key" are displayed (approx. 15 seconds).
- 2 Turn the Control knob to select "YES", and then press the [ENTER] button.  
The demonstration mode can also be canceled in the Function setting mode. Refer to [Demo Mode of <Function setting>](#) (page 16).

### Adjusting the Clock & Date

- 1 Press the [FNC] button to enter the Function setting mode.
- 2 The item can be selected and determined as follows.  
"Settings" → "Clock & Date" → "Clock Adjust"  
To select the item, turn the Control knob. To determine the item, press the [ENTER] button.
- 3 Turn the Control knob to adjust the hour, and then press the [ENTER] button.
- 4 Turn the Control knob to adjust the minute, and then press the [ENTER] button.
- 5 Turn the Control knob to select "Date Adjust", and then press the [ENTER] button.
- 6 Turn the Control knob to adjust the year, and then press the [ENTER] button.
- 7 Turn the Control knob to adjust the month, and then press the [ENTER] button.
- 8 Turn the Control knob to adjust the day, and then press the [ENTER] button.

- 9 Turn the Control knob to select "Date Mode", and then press the [ENTER] button.
- 10 Turn the Control knob to select Date format, and then press the [ENTER] button.
- 11 Press the [↵] button for at least 1 second to exit the Function setting mode.

## Common Operation

### Power and source selection

Turns the power ON by pressing the [SRC] button.

When the power is ON, select a source.

Press the [SRC] button and then turn the Control knob. To determine the selected source, press the [ENTER] button.

Tuner ("TUNER" or "HD RADIO") → USB ("USB") or iPod ("iPod") → CD ("CD") → Auxiliary Input ("AUX") → Standby ("STANDBY") → Tuner ("TUNER")

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



- You can select the source selection mode to switch between sources each time you press the [SRC] button. Set [Source Select Mode of <Function setting>](#) (page 16) to "2".
- The source "iPod" and "CD" can be selected when each source is ready to play.
- When an optional accessory is connected, the source name for each device appears.
- The power will be turned off automatically after about 20 minutes have lapsed in standby mode. (KMR-440U only)

### Volume

Turn the Control knob to adjust the sound volume.

### **Display scroll**

Keep the [S.MODE] button pressed down to scroll through the CD or audio file text display.

### **Auxiliary input**

Portable audio device can be connected with the stereo mini-plug (3.5 mm Ø).

## **Playing Music (CD/USB/iPod)**

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### **Playing Disc**

Insert the disc in the Disc slot.

When inserted, the source is switched automatically and a song starts playing.

### **Playing USB device**

Connect a USB device or iPod to the USB terminal.

When connected, the source is switched automatically and a song starts playing.

### **Selecting an Audio file folder**

Push the Control knob towards up or down to select a folder.

### **Selecting a Song**

Push the Control knob towards right or left to select a song (track or file).

### **Fast Forwards or Fast Backwards the music**

Push and hold the Control knob towards right or left to fast-forward or fast-backward the audio file containing songs (tracks or files).

### **Pause and play**

Press the [↔] button to pause or resume playing a song (track or file).

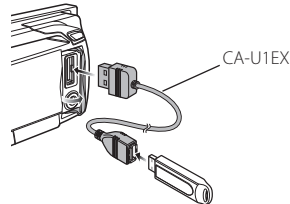
### **Removing Disc and USB device**

Press the [▲] button to eject a disc.

Keeping the button pressed for at least 2 seconds enters the USB Remove mode ("USB REMOVE" is displayed) and the USB device can be removed safely.



- CA-U1EX (optional accessory) is recommended to connect a USB device.



- KCA-iP101 (optional accessory) is recommended to connect an iPod.
- For the playable audio files, devices, iPod, see <Appendix> (page 39).

## **Listening to Radio**

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### **Selecting a Tuner source**

- 1 Press the [SRC] button.
- 2 Turn the Control knob to select "TUNER", and then press the [ENTER] button.

### **Selecting the Band**

Push the Control knob towards up to change the band in the order of FM1 → FM2 → FM3.

Push the Control knob towards down to change the band to AM.

### **Selecting a Station**

Push the Control knob leftward and rightward to select the station you want to listen to.



- Details of the station selecting in operation are set in the **22** Seek Mode of <Function setting> (page 16).

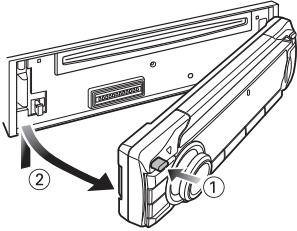
## General operation

### Removing the Faceplate

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

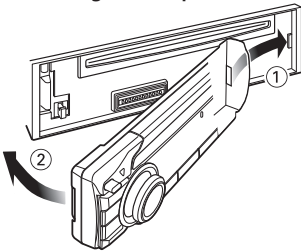
#### Detaching the Faceplate

Press the Release button.



#### Reattaching the Faceplate

Refer to the following diagram when reattaching the faceplate.



- Remove the faceplate at once after pressing the Release button; otherwise it can fall down due to vibration.
- 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 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.

### Muting the audio upon reception of phone call

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> (Quick Start Guide).

# Audio Adjustments

## Audio Control

You can adjust following Audio Control items;

Display	Audio item	Range
"SubWoofer"	Subwoofer output	OFF/ON
"Bass Boost"	Bass Boost	Level1/Level2/OFF
"System Q"	Preset Equalizer curve	"Rock"/"Pops"/"Easy"/ "Top40"/"Jazz"/"Game"/ "Natural"/"User"*
<b>"Bass Adjust"</b>		
"Bass Center FRQ"	Bass Center Frequency*	40/50/60/70/80/100/ 120/150 (Hz)
"Bass Level"	Bass level	-8 — +8 (dB)
"Bass Q Factor"	Bass Q Factor*	1.00/1.25/1.50/2.00
"Bass EXT"	Bass Extend*	OFF/ON
<b>"Middle Adjust"</b>		
"Middle Center FRQ"	Middle Center Frequency*	0.5/1.0/1.5/2.0 (kHz)
"Middle Level"	Middle level	-8 — +8 (dB)
"Middle Q Factor"	Middle Q Factor*	1.00/2.00
<b>"Treble Adjust"</b>		
"Treble Center FRQ"	Treble Center Frequency*	10.0/12.5/15.0/17.5 kHz
"Treble Level"	Treble level	-8 — +8 (dB)
"Balance"	Balance	Left 15 — Right 15
"Fader"	Fader	Rear 15 — Front 15
"2Zone Rear Volume"	Rear volume during Dual zone	0 — 35
"SubWoofer Level"	Subwoofer level	-15 — +15 (dB)
<b>"Detailed Settings"</b>		
"HPF Front"	Front High Pass Filter	Through/40*/60*/80/ 100/120/150/180/220* (Hz)
"HPF Rear"	Rear High Pass Filter	Through/40*/60*/80/ 100/120/150/180/220* (Hz)
"LPF SubWoofer"	Low Pass Filter	50*/60/80/100*/120/ Through (Hz)
"Subwoofer Phase"	Subwoofer Phase	Reverse (180°)/ Normal (0°)
"2Zone"	Dual Zone System	ON/OFF
"2Zone F/R Select"	Dual Zone output channel	Rear/Front
"Supreme"	Supreme setting	ON/OFF
"Audio Preset"	Audio Preset memory†	Recall/Memory
"Volume Offset ADJ"	Volume offset	-8 — ±0 (dB) (AUX: -8 — +8)

\*Function of KDC-X494.

†Refer to <Audio Preset Memory> (page 8), <Audio Preset Recall> (page 8)



- \*User\*: The customized Bass, Middle, and Treble levels are effective.
- You can set Bass, Middle, and Treble for each source. About Supreme Technology to extrapolate and supplement with proprietary algorithm, the high-frequency range that is cut off when encoding at low bit rate (less than 128Kbps, Sampling frequency is 44.1kHz). Supplementing is optimized by compression format (MP3 or WMA) and processed according to bit rate. The effect is negligible with music that is encoded at high bit rate, variable bit rate or has minimal high frequency range.
- About Dual Zone System Main source and sub source (Auxiliary input) output Front channel and Rear channel separately.
  - When "2Zone" is set to "ON", the main source sound and AUX input sound are output to the front speakers and rear speakers separately.
  - Set up the channel of sub source by "2Zone".
  - Select Main source by [SRC] button.
  - Adjust the volume of Front channel by Control knob.
  - Adjust the volume of Rear channel by "2Zone Rear Volume".
  - The Audio Control has no effect on sub source.
  - When Bluetooth audio source is selected, set "2Zone F/R Select" to "Rear". "2Zone" cannot be turned "ON" when this is set to "Front". While "2Zone" is turned "ON", "2Zone F/R Select" function is disabled.

### 1 Select the source to adjust

**Press the [SRC] button.**

For how to select source item, refer to <Power and source selection> (page 4).

### 2 Enter Audio Control mode

**Press the [AUDIO] button.**

### 3 Select the Audio item to adjust

**Turn the Control knob to select the audio item for adjustment and then press the [ENTER] button.**

Press the [↵] button to return to the previous item.

### 4 Adjust the Audio item

**Turn the Control knob.**

### 5 Determine the setting value

**Press the [ENTER] button.**

The previous item is displayed.

### 6 Exit Audio Control mode

**Press the [↵] button for at least 1 second.**

# Audio Adjustments

## Audio Preset Memory

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Registering the value setup by Audio Control.

### 1 Setup Audio Control

Setup the <Audio Control> (page 7).

### 2 Enter Audio Control mode

Press the [AUDIO] button.

### 3 Select Audio preset memory mode

The item can be selected and determined as follows.

“Detailed Settings” → “Audio Preset”

To select the item, turn the Control knob. To determine the item, press the [ENTER] button.

### 4 Select the Audio Preset Memory

Turn the Control knob to select “Memory”, and then press the [ENTER] button.

### 5 Turn the Control knob to select “YES”, and then press the [ENTER] button.

“Memory Completed” is displayed.

### 6 Exit Audio Control mode

Press the [↵] button for at least 1 second.



- To use this function, this unit must be powered for more than one hour.
- 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 can be registered.  
“Bass Center FRQ”, “Bass Level”, “Bass Q Factor”, “Bass EXT”,  
“Middle Center FRQ”, “Middle Level”, “Middle Q Factor”,  
“Treble Center FRQ”, “Treble Level”, “SubWoofer Level”, “HPF Front”, “HPF Rear”, “LPF SubWoofer”, “Subwoofer Phase”

## Audio Preset Recall

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Recalling the sound setup registered by <Audio Preset Memory> (page 8).

### 1 Select the source

Press the [SRC] button.

For how to select source item, refer to <Power and source selection> (page 4).

### 2 Enter Audio Control mode

Press the [AUDIO] button.

### 3 Select Audio preset memory mode

The item can be selected and determined as follows.

“Detailed Settings” → “Audio Preset”

To select the item, turn the Control knob. To determine the item, press the [ENTER] button.

### 4 Select the Audio Preset Recall

Turn the Control knob to select “Recall”, and then press the [ENTER] button.

### 5 Turn the Control knob to select “YES”, and then press the [ENTER] button.

“Recall Completed” is displayed.

### 6 Exit Audio Control mode

Press the [↵] button for at least 1 second.



# Music disc/Audio file Operation

Function of Audio file/ Internal CD source

## Music Search

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


- 1 Enter Music Search mode**  
Press the [ **Q** ] button.  
"MUSICSEARCH" is displayed.


- 2 Search for music**

### Audio file

Operation type	Operation
Movement between folders/files	Turn the Control knob.
Selection of folder/file	Press the [ENTER].
Return to previous folder	Press the [↵] button.
Return to root folder	Push the Control knob towards left for at least 1 second.
Cancel the Music Search mode	Press the [↵] button for at least 1 second.

 indicator: Audio file

 indicator: Folder with a folder or file in the lower layer

 indicator: Folder without a folder or file in the lower layer

### CD source

Operation type	Operation
Movement between track	Turn the Control knob.
Selection of track	Press the [ENTER].
Return to first track	Push the Control knob towards left for at least 1 second.
Cancel the Music Search mode	Press the [↵] button.

Function of iPod source

## Music Search for iPod

Searching for the song (in iPod) you want to play.

- 1 Enter Music Search mode**  
Press the [ **Q** ] button.  
"MUSICSEARCH" is displayed.

- 2 Search for music**

Operation type	Operation
Movement between items	Turn the Control knob.
Selection of item	Press the [ENTER].
Return to previous item	Press the [↵] button.
Return to Top menu	Push the Control knob towards up for at least 1 second.

### Canceling the Music Search mode

Press the [ **↵** ] button for at least 1 second.



- If no characters included in a song name can be displayed, the browse item name and digits are displayed.

Items	Display	Items	Display
Playlists	"PLIST****"	Podcasts	"PDCT****"
Artists	"ART****"	Genres	"GEN****"
Albums	"ALB****"	Composers	"COM****"
Songs	"PRGM****"		

# Music disc/Audio file Operation

Function of iPod source

## Alphabet Search

You can select an alphabetic character from the list in the browse item (artist, album, etc.) currently selected.

### 1 Enter Music Search mode

Press the [Q] button.

"MUSICSEARCH" is displayed.

### 2 Select browse item

Turn the Control knob to select browse item, and then press the [ENTER] button.

### 3 Enter Search select mode

Press the [S.MODE] button.

### 4 Select Alphabet Search mode

Turn the Control knob to select "Alphabet Search", and then press the [ENTER] button.

### 5 Select the character to be searched for

Operation type	Operation
Select the characters	Turn the Control knob.
Move the cursor to the enter character position	Push the Control knob towards up or down.

### 6 Determine the selected character

Press the [ENTER] button.

Start search. When search is completed, the music search mode is selected again at the selected character position.

### Canceling the Music Search mode

Press the [↩] button for at least 1 second.



- The time of Alphabet search may become long depending on the number of items (songs) in iPod.
- To search for a character other than A to Z and 1 to 9, enter "0".
- If the first character string begins with an article "a", "an", or "the" in the alphabet search mode, it is searched for in defiance of the article.

Function of iPod source/ Music Editor media

## Skip Search

The number of songs to be skipped is determined by the ratio of the total number of songs in the list which is selected.

### 1 Enter Music Search mode

Press the [Q] button.

"MUSICSEARCH" is displayed.

### 2 Enter Search select mode

Press the [S.MODE] button.

### 3 Select Skip Search mode

Turn the Control knob to select "Skip Search", and then press the [ENTER] button.

### 4 Search for music

Operation type	Operation
Movement between items	Turn the Control knob.
Skip Search	Push the Control knob towards up or down.
Selection of item	Press the [ENTER].
Return to previous item	Press the [↩] button.

### Canceling the Music Search mode

Press the [↩] button for at least 1 second.



- Set the ratio with Skip Search in <Function setting> (page 16).
- Keep pushing Control knob for 3 seconds or longer skips songs at 10% regardless of the setting.

Function of iPod source

## Direct Search

Searching for music by selecting a browse item and an alphabetic character(s).

### 1 Enter Music Search mode

Press the [ **Q** ] button.

"MUSICSEARCH" is displayed.

### 2 Enter Search select mode








Press the [S.MODE] button.

### 3 Select Direct Search mode

Turn the Control knob to select "Direct Search", and then press the [ENTER] button.

### 4 Select browse item

Turn the Control knob to select browse item, and then press the [ENTER] button.

Display	Browses item
	Playlists
	Artists
	Albums
	Songs
	Podcasts
	Genres
	Composers

### 5 Select the character to be searched for

Turn the Control knob to select character, and then press the [ENTER] button.

You can select up to three characters.

### 6 Search for music

Turn the Control knob to select "DONE", and then press the [ENTER] button.

A search result list is displayed.

### 7 Select the music

Turn the Control knob to select music, and then press the [ENTER] button.

### Canceling the Music Search mode

Press the [ **↶** ] button for at least 1 second.

Function of iPod source

## Related Search

Browsing for music of the same artist or genre as the one being played.

### 1 Enter Related Search mode

Press the [S.MODE] button.

### 2 Select browsing item

Turn the Control knob and press the [ENTER] button when the desired browse item is selected.

Display	Browses music
"Search Artist"	Displays the album of the same artist.
"Search Album"	Displays music in the album in which the one being played is included.
"Search Genre"	Displays the artist of the same genre.
"Search Composer"	Displays the album including music created by the same composer.

### 3 Search for music

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

### Canceling the Related Search

Press the [ **↶** ] button for at least 1 second.



- Related search cannot be performed while playing a Podcast.
- When the music being played has no information on browsing items or no music was found, "Not Found" is displayed.

# Music disc/Audio file Operation

Function of iPod source

## My Playlist for iPod

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You can register your favorite songs to make a playlist. You can register up to ten songs in the playlist.

### Registering a song in the playlist

#### 1 Play the song you want to register

Push the Control knob towards up, down, right, and left.

#### 2 Register the song

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

"## (registration number) Stored" is displayed. You can register up to ten songs.



- When creating a playlist, you can register the songs stored in one iPod. If you attempt to register a song by connecting an unregistered iPod, "My Playlist Delete" is displayed. Selecting "YES" deletes the playlist.
- The song displayed during music search can be registered in the same manner. For the music search procedure, refer to <Music Search for iPod> (page 9).
- If you attempt to register the eleventh song, "Memory Full" is displayed and you cannot register the song. To register it, delete an unnecessary song.
- Do not register Podcasts. Songs may be registered or played improperly. For example, unintended songs are registered.

### Playing the playlist

#### 1 Display the playlist

Press the [ENTER] button.

"My Playlist" is displayed.

#### 2 Play a song in the playlist

Turn the Control knob to select the song you want to play and then press the [ENTER] button.

"LIST" indicator is displayed.



- To stop playing the song in the playlist, turn the power off.
- If a song does not end with 1 second or longer silence, its last portion may not be played.
- Songs cannot be played at random during playback of the songs in playlist.

### Deleting a song from the playlist

#### 1 Display the playlist

Press the [ENTER] button.

"My Playlist" is displayed.

#### 2 Turn the Control knob to select the song you want to delete and then press the [ENTER] button for at least 2 seconds.


#### 3 Turn the Control knob to select "One" or "All", and then press the [ENTER] button.

Selecting "All" deletes all songs.

#### 4 Turn the Control knob to select "YES", and then press the [ENTER] button.

"Completed" is displayed.



- All songs in the playlist can also be deleted by selecting  My Playlist Delete of <Function setting> (page 16).

*Function of remote control*

## **Direct Music Search**

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Searching the music by entering the track number.

### **1 Enter Direct Music Search mode**

Press the [DIRECT] button on the remote control.

"--" is displayed.

### **2 Enter the music number**

Press the number buttons on the remote control.

### **3 Search the music**

Press the [◀◀] or [▶▶] button on the remote control.

### **Cancelling Direct Music Search**

Press the [↵] button on the remote control.



- Direct Music Search cannot be performed during playing of iPod.

*Function of disc changers*

## **Basic Operation of Disc Changer (Optional)**

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### **Selecting CD changer source**

Press the [SRC] button.

Select the "CD CH" display.

For how to select source item, refer to <Power and source selection> (page 4).

### **Music search**

Push the Control knob towards right or left.

### **Disc Search**

Push the Control knob towards up or down.

*Function of disc changers with remote control*

## **Direct Search in Disc Changer (Optional)**

---

Searching the disc or music by entering the disc or music number.

### **1 Enter Direct Search mode**

Press the [DIRECT] button on the remote control.

"--" is displayed.

### **2 Enter the disc or music number**

Press the number buttons on the remote control.

### **3 Search the disc**

Press the [FM] or [AM] button on the remote control.

#### **Search the music**

Press the [◀◀] or [▶▶] button on the remote control.

### **Cancelling Direct Search**

Press the [↵] button on the remote control.



- Input "0" to select disc 10.

# Tuner Operation

## Station Preset Memory

Putting a station in the memory.

- 1 Select the frequency to put in the memory**  
Push the Control knob towards right or left.
- 2 Enter Preset Memory mode**  
Press the [ Q ] button.
- 3 Preset the station**  
Turn the Control knob to select preset number ("P1" – "P6"), and then press the [ENTER] button for at least 2 seconds.

### **Canceling the Preset Memory mode**

Press the [ ↵ ] button.

## Preset Tuning

Recalling the stations in the memory.

- 1 Enter Preset Tuning mode**  
Press the [ Q ] button.
- 2 Recall the station**  
Turn the Control knob to select recall number ("P1" – "P6"), and then press the [ENTER].

### **Canceling Preset Tuning**

Press the [ ↵ ] button.

*Function of remote control*

## Direct Access Tuning

Entering the frequency and tuning.

- 1 Enter Direct Access Tuning mode**  
Press the [DIRECT] button on the remote control.  
"----" is displayed.

- 2 Enter the frequency**  
Press the number buttons on the remote control.

Example:

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

- 3 Search the frequency**  
Press the [◀◀] or [▶▶] button on the remote control.

### **Canceling Direct Music Search**

Press the [ ↵ ] button on the remote control.

# Favorite Control

## Favorite Preset Memory

You can register frequently used items such as broadcast stations, iPod Playlist or Artists, Function setting items, or Audio control items.

### 1 Display the item you want to register

Registerable items are as follows:

Source	Registerable items
TUNER/SIRIUS/XM/HD	Frequency or channel
iPod	Browse item such as Playlists/Artists/Albums
Function setting	Function setting item
Audio control	Audio control item
Hands-free phone	Telephone number retrieval.

When selecting registerable items, the "FAV" indicator is lit for 5 seconds.

Go through step 2 and later by the item which the "FAV" indicator is lit.

When a setting operation of each item can be done in the Function setting, the "FAV" indicator goes out and you cannot register to the Favorite.

### 2 Enter Favorite Preset Memory mode

Press the [FAVORITE] button for at least 1 second.

### 3 Select the number to put in the memory

Turn the Control knob.

### 4 Put the Favorite Preset in the memory

Press the [ENTER] button.

### Canceling the Favorite Preset Memory mode

Press the [↶] button.



- Register 6 pairs of Favorite Preset Memory. "Register your favorite functions" is displayed for numbers available for preset.
- The memory cannot be erased by the Reset button.
- Registering the operation procedure to an existing preset number overwrites the existing procedure.
- The registered item can be deleted by selecting **32** Favorite Delete of <Function setting> (page 16).
- If the items in the second or lower hierarchy are changed, the list in iPod will be changed by adding or deleting songs after the FAVORITE registration. Due to this, the list registered in this unit will be different from the list in iPod. The FAVORITE registration should be performed again after editing the items in iPod.
- To use this function, this unit must be powered for more than one hour.

## Favorite Preset Recall

Retrieving an item registered to Favorite.

### 1 Enter Favorite Preset Recall mode

Press the [FAVORITE] button.

### 2 Select the number to recall in the Favorite memory

Turn the Control knob.

### 3 Recall the Favorite Preset

Press the [ENTER] button.

### Canceling the Favorite Preset Recall mode

Press the [↶] button.

## Deleting Favorite Preset Memory

Deleting an item registered to Favorite.

### 1 Select Standby

Press the [SRC] button.

Select the "STANDBY" display.

For how to select source item, refer to <Power and source selection> (page 4).

### 2 Enter Function setting mode

Press the [FNC] button.

### 3 Select Favorite Delete mode

The item can be selected and determined as follows.

"Initial Settings" → "Favorite Delete"

To select the item, turn the Control knob. To determine the item, press the [ENTER] button.

### 4 Select the number you want to delete

Turn the Control knob to select memory number, and then press the [ENTER] button.

"Favorite Delete" is displayed.

Select "All" if you want to delete all.

### 5 Turn the Control knob to select "YES", and then

press the [ENTER] button.

"Completed" is displayed.

### 6 Exit Function setting mode

Press the [↶] button for at least 1 second.

# Function setting

Configure the functions of this unit using the following procedure:

## 1 Search for the item to set

Pick up the item to set according to <Function item> (page 16).

## 2 Select the source

Press the [SRC] button.

Switch to the source that displays the item to set according to <Function list> (page 21).

For how to select source item, refer to <Power and source selection> (page 4).

## 3 Enter Function setting mode

Press the [FNC] button.

## 4 Select the Function item

Turn the Control knob to select the item to set.

## 5 Enter the selected Function item

Press the [ENTER] button.

Press the [↵] button to return to the previous item.

Repeat steps 4 and 5 until you get to the item to set.

## 6 Set the Function item

Turn the Control knob to select a desired setting value.

## 7 Determine the setting value

Press the [ENTER] button.

The previous item is displayed.

## 8 Exit Function setting mode

Press the [↵] button for at least 1 second.

## Function item

### Example:

**No. Function name:** "Display of each function on this unit" > "Setting value 1"\*, "Setting value 2"...  
Provides a functional overview of the function item. The source that displays this function can be found according to the numbers (00) in <Function list> (page 21).



- The underscored setting value is a factory setting.

## Music Play Mode

**01 iPod Control by Hand: "Hands Mode"** > "ON", "OFF"

When set to "ON", allows you to operate iPod with the control on the iPod.

**02 Scan play: "Track Scan" (CD)/ "File Scan" (Audio file)** > "ON", "OFF"

When set to "ON", plays the intro of the music in the disc/folder successively.

**03 Random play: "Disc Random" (CD)/ "Folder Random" (Audio file/ iPod)** > "ON", "OFF"

When set to "ON", plays the music in the disc/folder randomly.

**04 All Random play: "All Random"** > "ON", "OFF"  
When set to "ON", all songs in iPod are played at random.

**05 Track/File Repeat play: "Track Repeat" (CD)/ "File Repeat" (Audio file/ iPod)** > "ON", "OFF"

When set to "ON", plays the music repeatedly.

**06 Disc/Folder Repeat: "Disc Repeat" (CD changer)/ "Folder Repeat" (Audio file)** > "ON", "OFF"

When set to "ON", plays the music in the disc/folder repeatedly.

**07 Magazine Random: "MGZN Random"** > "ON", "OFF"

When set to "ON", plays the music in the disc changer randomly.



## Display Control

- 08 Display Type Selection: "Display Control" >** 5 types

Sets the display pattern.

Display type	Display information
Type A	Displays 2 lines of text.
Type B	Displays a line of text.
Type C	Displays the status.
Type D	Displays the clock.
Type E	Displays the spectrum analyzer.

Refer to <Selecting Display Type> (page 22).

- 09 Display Side Selection: "DISP Side Select" >** 2 types

Sets the Type A, B, D, and E side display to ON/OFF. Refer to <Selecting Display Type> (page 22).

- 10 Display Text Selection: "DISP Text Select"**

Sets the Type A and B text display. Refer to <Selecting Text Display> (page 22).

- 11 Display Graphic Selection: "DISP GRPHC Select" >** 6 types

Sets the Type E spectrum analyzer display. Refer to <Selecting Display Type> (page 22).

## Clock & Date Settings

- 12 Adjusting the Clock: "Clock Adjust"**

Sets the clock. Refer to <Adjusting the Clock & Date> (page 4).

- 13 Adjusting the Clock: "Date Adjust"**

Sets the date. Refer to <Adjusting the Clock & Date> (page 4).

- 14 Selecting Date Mode: "Date Mode" >** 7 types

Sets the date display mode. Refer to <Adjusting the Clock & Date> (page 4).

## Display & Illumination Settings

- 15 Display ON/OFF: "DISP OFF Mode" >** "ON", "OFF"

If this unit is not operated at least 5 seconds with "ON" selected, the display turns off. During a setup mode, the display will not turn off even if 5 seconds lapse.

Function of KDC-X494/ KDC-MP445U

- 16 Display Dimmer: "Display Dimmer" >** "Auto", "Manual1", "Manual2", "OFF"

Dims the display part in conjunction with the light switch of the vehicle.


- 17 Text Scroll: "Text Scroll" >** "Auto", "Manual"

Setting to "Auto" scrolls the displayed text automatically.

- 18 Display Bluetooth device Status: "BT DVC Status"**

You can display the connection status, signal strength, and battery level.

 : Battery level of cell-phone.

 : Signal strength of cell-phone.

Function of KCA-BT200 (Optional Accessory).

- 19 Illumination Dimmer: "ILLUMI Dimmer" >**

"Auto", "Manual1", "Manual2", "OFF"

Reduces the key Illumination brightness.

Auto: Dims the illumination in conjunction with the Light switch of the vehicle.

Manual1: Dims the illumination constantly.

Manual2: Dims the illumination darker than Manual1.

OFF: Does not dim the illumination.

- 20 Illumination Effect: "ILLUMI Effect" >** "ON", "OFF"

Sets whether the key illumination color is changed in conjunction with the key operation.

- 21 Music-linked Illumination Effect: "ILLUMI Music SYNC" >** "ON", "OFF"

Sets whether the key illumination color is changed in conjunction with the sound volume.

## Tuner Settings

- 22 Seek Mode: "Seek Mode" >** "Auto1", "Auto2", "Manual"

Selects the tuning mode of the radio.

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

- 23 Auto Memory: "Auto Memory"**

Memorizes six stations with good reception automatically.

Turn the Control knob to select "YES" and then press the [ENTER] button to start the auto memory operation.

- 24 Monaural reception: "MONO" >** "ON", "OFF"

You can reduce the noise when stereo broadcasts are received as monaural.

# Function setting

## iPod Settings

- 25 Skip Search: "Skip Search"** ▶ "0.5%", "1%", "5%", "10%"  
Sets the ratio of skip performed with <Skip Search> (page 10).
- 26 My Playlist Delete: "My Playlist Delete"**  
Deletes the songs registered in My Playlist.  
Turn the Control knob to select "YES" and then press the [ENTER] button to delete My Playlist.

## AUX Settings

- 27 Name Set: "Name Set"** ▶ "AUX", "DVD", "PORTABLE", "GAME", "VIDEO", "TV"  
Sets the display when switched to AUX source.

## Initial Settings

- 28 Source Select Mode: "SRC Select"** ▶ "1", "2"  
Sets the source selection method.
- 29 Beep: "Key Beep"** ▶ "ON", "OFF"  
Setting the operation check sound (beep sound) ON/OFF.
- 30 Built in AUX: "Built-in AUX"** ▶ "ON", "OFF"  
Sets whether to display AUX during source selection.
- 31 CD Read: "CD Read"** ▶ "1", "2"  
Sets the method for reading CD.  
When unable to play special format CD, set this function to "2" to force playing. Note that some music CDs may be unplayable even when set to "2".  
In addition, audio files cannot be played when set to "2". Normally, keep this set to "1".  
1 : Automatically distinguishes between audio file disc and music CD when playing disc.  
2 : Forces playing as music CD.
- 32 Favorite Delete: "Favorite Delete"** ▶ Preset No., "All"  
Deletes Favorite Preset Memory.  
Refer to <Deleting Favorite Preset Memory> (page 15).
- 33 Built in Amp setting: "Built-in AMP"** ▶ "ON", "OFF"  
Selecting "OFF" turns off the built-in amplifier.  
Turning off the built-in amplifier improves the quality of the sound from Preout.

- 34 Speaker Select: "Speaker Select"** ▶ "OFF", "5/4inch", "6x9/6inch", "O.E.M"  
Fine-tuning so that the System Q value is optimal when setting the speaker type as follows;

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"

- 35 Firmware Upgrade: "F/W Update #.##"** ▶ "USB", "CD"  
Upgrades the firmware.  
Selecting "YES" and then pressing [ENTER] button starts upgrading the firmware.  
For how to update the firmware, access our web site.  
<http://www.kenwood.com/cs/ce/>

## Demo Mode Settings

- 36 Demo Mode: "DEMO Mode"** ▶ "ON", "OFF"  
Specifies whether to enable demonstration.

Function of KTC-HR300/ KTC-HR200 (Optional Accessory)

HD Radio Settings

- 37 Seek Mode: "Seek Mode" > "Auto1", "Auto2", "Manual"
Selects the tuning mode of the radio.

Table with 3 columns: Tuning mode, Display, Operation. Rows include Auto seek, Preset station seek, and Manual.

- 38 Auto Memory: "Auto Memory"
Memorizes six stations with good reception automatically.
Turn the Control knob to select "YES" and then press the [ENTER] button to start the auto memory operation.

- 39 Receive mode: "Receive mode" > "Auto", "Digital", "Analog"
Sets the receive mode of the HD Radio.
Auto: Automatically tunes to analog broadcast when there is no digital broadcast.

Digital: Digital broadcasts only.
Analog: Analog broadcasts only.

- 40 Memory count display: "TAG Memory"
Displays the tag memory usage of HD Radio. Up to 50 tags can be registered to this unit.

- 41 iTunes Tagging: "Tagging" > "ON", "OFF"
Turns ON / OFF the iTunes tag memory function of HD Radio.
Refer to <iTunes Tagging> (page 25).

Function of Satellite Radio tuner (Optional Accessory)

Satellite Radio Settings

- 42 Seek Mode: "Seek Mode" > "Channel", "Preset"
Selects the tuning mode of the radio.

Table with 2 columns: Display, Operation. Rows include "Channel" and "Preset".

- 43 ESN watch: "ESN Watch"
Displays the Electronic Serial Number of satellite radio.

Function of KCA-BT200 (Optional Accessory)

Bluetooth Settings

- 44 Phone Selection: "Phone Selection"
Select a cell-phone subject to hands-free connection. Refer to <Selecting the Bluetooth device You Wish to Connect> (page 34).

- 45 Audio Selection: "Audio Selection"
Select the Bluetooth audio player to be connected. Refer to <Selecting the Bluetooth device You Wish to Connect> (page 34).

- 46 SMS Download: "SMS Download"
Download a short message. Refer to <Downloading the SMS> (page 37).

- 47 SMS Inbox display: "SMS Inbox"
Display the received short message. Refer to <Displaying the SMS> (page 37).

- 48 Adding a voice command: "PB Name Edit"
Registers voice for voice recognition. Refer to <Adding a voice dialing command> (page 35).

- 49 Voice command category setting: "PN Type Edit"
Registers voice to select the Phone number category in Phonebook. Refer to <Setting a Voice Command for Category> (page 36).

- 50 Device Regist: "Device Regist."
Register a Bluetooth device (pairing). Refer to <Registering Bluetooth device> (page 32).

- 51 Special Device Regist: "SPCL DVC Select"
Allow registration of a special device that cannot be registered normally. Refer to <Registering Special Bluetooth device> (page 32).

- 52 Device Delete: "Device Delete"
Cancel registration of the Bluetooth device. Refer to <Deleting a Registered Bluetooth device> (page 34).

- 53 PIN Code Edit: "PIN Code Edit"
Specify the PIN code required when registering this unit using the Bluetooth device. Refer to <Registering PIN Code> (page 33).

- 54 Setting the Time Interval for Automatic Answer: "Auto Answer" > "OFF", "0SEC" - "89SEC" - "99SEC"
This function automatically answers (responds to) a call after lapse of the preset time interval for automatic answer.
"OFF" : Does not answer the phone call automatically.
"0" : Automatically answers the phone call at once.
"1s" - "99s" : Automatically answers the phone call after lapse of 1 - 99 seconds.

## Function setting

### 55 Speaker Select: "Bluetooth HF/Audio" >

"Front", "All"

You can specify output speakers for hands-free voice communication and Bluetooth audio sound.

"Front" : Outputs sound from the front speakers.

"All" : Outputs sound from the front and rear speakers.

### 56 Setting the Beep of the Incoming Call: "Call Beep" > "ON", "OFF"

You can output a beep from the speaker when a call comes in.

"ON" : Beep is heard.

"OFF" : Beep is canceled.

### 57 BT F/W Update: "BT F/W Update"

Displays the firmware version and update the firmware. Refer to <Displaying the Firmware Version> (page 34).



- The Bluetooth Function setting items can be set while in the Bluetooth mode without selecting the Function setting mode.
  1. Press the [FNC] button for at least 1 second to enter the Bluetooth mode.
  2. Turn the Control knob to select "BT Setting", and then press the [ENTER] button.
  3. Turn the Control knob to select desired item, and then press the [ENTER] button.
  4. Turn the Control knob to select value, and then press the [ENTER] button.

## Function list

### Function items that appear when any source is selected

Function item list			No.
"Settings"	"Clock & Date"	"Clock Adjust"	12
		"Date Adjust"	13
		"Date Mode"	14
	"DISP & ILLUMI"	"DISP OFF Mode"	15
		"Display Dimmer"	16
		"Text Scroll"	17
		"BT DVC Status"	18
		"ILLUMI Dimmer"	19
		"ILLUMI Effect"	20
		"ILLUMI Music SYNC"	21
"Display Control"	("DISP SELECT")	"DISP Side Select"	08
		"DISP Text Select"	09
		"DISP GRPHC Select"	10
		"DISP GRPHC Select"	11
"DEMO Mode"		36	

### Function items that appear during standby

Function item list			No.
"Initial Settings"	"SRC Select"		28
	"Key Beep"		29
	"Built-in AUX"		30
	"CD Read"		31
	"Favorite Delete"		32
	"Built-in AMP"		33
	"Speaker Select"		34
	"F/W Update #.##"		35

### Function items that appear during playback of a CD, audio file, or iPod

Function item list			No.
"Play Mode"	"Hands Mode" (iPod)		01
	"Track Scan" (CD)/"File Scan" (Audio file)		02
	"Disc Random" (CD)/"Folder Random" (Audio file/ iPod)		03
	"All Random" (iPod)		04
	"Track Repeat" (CD)/"File Repeat" (Audio file/ iPod)		05
	"Disc Repeat" (CD changer)/"Folder Repeat" (Audio file)		06
	"MGZN Random" (Disc changer)		07
	"Settings"	"Skip Search" (iPod/ Music Editor media)	
"My Playlist Delete" (iPod)			26

### Function items that appear when the tuner source is selected

Function item list		No.
"Settings"	"Seek Mode"	22
	"Auto Memory"	23
	"MONO"	24

### Function items that appear when the HD Radio source is selected

Function item list		No.
"Settings"	"Seek Mode" (HD Radio)	37
	"Auto Memory" (HD Radio)	38
	"Receive mode"	39
	"TAG Memory"	40
	"Tagging"	41

### Function items that appear when the Satellite Radio source is selected

Function item list		No.
"Settings"	"Seek Mode" (Satellite Radio)	42
	"ESN Watch"	43

### Function items that appear when the AUX source is selected

Function item list		No.
"Settings"	"Name Set"	27

### Function items that appear in the BT mode

Function item list			No.
"Settings"	"Phone Selection"		44
	"Audio Selection"		45
	"SMS Download"		46
	"SMS Inbox"		47
	"Voice Tag"	"PB Name Edit"	48
		"PN Type Edit"	49
	"Detailed Settings"	"Device Regist."	50
		"SPCL DVC Select"	51
		"Device Delete"	52
		"PIN Code Edit"	53
		"Auto Answer"	54
		"Bluetooth HF/ Audio"	55
		"Call Beep"	56
	"BT F/W Update"	57	

# Display Settings

## Selecting Display Type

Shown below are examples of display types.

Display type	Display information
Type A	Displays 2 lines of text.
Type B	Displays a line of text.
Type C	Displays the status (ON/OFF indicator for each function).
Type D	Displays the clock.
Type E	Displays the spectrum analyzer.

### 1 Enter Function setting mode

Press the [FNC] button.

### 2 Select Display control mode

Turn the Control knob to select “Display Control”, and then press the [ENTER] button.

### 3 Select the Display type

Turn the Control knob to select Display type, and then press the [ENTER] button.

### 4 Select Display information item

Turn the Control knob to select Display information item, and then press the [ENTER] button.

The following display information items can be set:

- Side display selection (When selecting Display type A, B, D, or E.)  
Select the “DISP Side Select” display.  
Refer to [🔊 Display Side Selection of <Function setting>](#) (page 16).
- Text display selection (When selecting Display type A or B.)  
Select the “DISP Text Select” display.  
Refer to [<Selecting Text Display>](#) (page 22).
- Graphic selection (When selecting Display type E.)  
Select the “DISP GRPHC Select” display.  
Refer to [📺 Display Graphic Selection of <Function setting>](#) (page 16).

### 5 Exit Function setting mode

Press the [↩] button for at least 1 second.

## Selecting Text Display

Changes displayed information on each of the following sources:

### In Tuner source

Information	Display
Frequency	“Frequency”
Spectrum analyzer & Clock	“Speana/Clock”
Date	“Date”
Displays the status (Type A display only)	“Indicator”
Blank	“Blank”

### In HD Radio (Optional accessory) source

Information	Display
Frequency	“Frequency”
Station name	“Station Name”
Title & Artist name (KTC-HR300 only)	“Title/Artist”
Album & Artist name (KTC-HR300 only)	“Album/Artist”
Title (KTC-HR200 only)	“Title”
Spectrum analyzer & Clock	“Speana/Clock”
Date	“Date”
Displays the status (Type A display only)	“Indicator”
Blank	“Blank”

### In CD & External disc source

Information	Display
Disc title	“Disc Title”
Track title	“Track Title”
Play time	“P-Time”
Spectrum analyzer & Clock	“Speana/Clock”
Date	“Date”
Displays the status (Type A display only)	“Indicator”
Blank	“Blank”

### In Audio file/ iPod source

Information	Display
Title & Artist name	“Title/Artist”
Album & Artist name	“Album/Artist”
Folder name	“Folder Name”
File name	“File Name”
Play time	“P-Time”
Spectrum analyzer & Clock	“Speana/Clock”
Date	“Date”
Displays the status (Type A display only)	“Indicator”
Blank	“Blank”

### In Standby/ Auxiliary input source

Information	Display
Source name	"Source Name"
Spectrum analyzer & Clock (AUX only)	"Speana/Clock"
Clock (Standby only)	"Clock"
Date	"Date"
Displays the status (Type A display only)	"Indicator"
Blank	"Blank"

### In SIRIUS (Optional accessory) source

Information	Display
Channel Name	"Channel Name"
Artist Name, Composer name, & Music Title	"Artist/Song"
Category Name	"Category Name"
Channel Number	"Channel Number"
Spectrum analyzer & Clock	"Speana/Clock"
Date	"Date"
Displays the status (Type A display only)	"Indicator"
Blank	"Blank"

### In XM (Optional accessory) source

Information	Display
Channel Name	"CHANNEL NAME"
Name & Title	"NAME/TITLE"
Category Name	"CATEGORY"
Channel Number	"CHANNEL NUMBER"
Spectrum analyzer & Clock	"Speana/Clock"
Date	"Date"
Displays the status (Type A display only)	"Indicator"
Blank	"Blank"

### In Bluetooth Audio "BT AUDIO EXT" (Optional accessory) source

Information	Display
Source name	"Source Name"
Spectrum analyzer & Clock	"Speana/Clock"
Date	"Date"
Displays the status (Type A display only)	"Indicator"
Blank	"Blank"

#### 1 Enter Function setting mode

Press the [FNC] button.

#### 2 Select Display control mode

Turn the Control knob to select "Display Control", and then press the [ENTER] button.

#### 3 Select the Display type

Turn the Control knob to select Display type A or B, and then press the [ENTER] button.

#### 4 Select Text display selection mode

Turn the Control knob to select "DISP Text Select", and then press the [ENTER] button.

#### 5 Select the text display part (Display type A only)

Push the Control knob towards up or down. The selected text display part blinks.

#### 6 Select the text

Turn the Control knob.

#### 7 Exit Function setting mode

Press the [↵] button for at least 1 second.



- If the selected display item does not have any information, alternative information is displayed.
- Some items cannot be selected depending on the display type and row.
- When selecting "Folder name" while playing with iPod, names will be displayed depending on currently selected browsing items.
- If the iPod Control by Hand Mode is set to on while playing the iPod, "iPod By Hand Mode" is displayed.
- If all characters cannot be displayed while playing with iPod, the file number in the list is displayed.

Information	Display
Music title	"TITLE****"
Folder name	"FLD****"
File name	"FILE****"

# HD Radio™ tuner control

## Tuning

Selecting the station.

### 1 Select HD Radio source

Press the [SRC] button.

Select the "HD RADIO" display.

For how to select source item, refer to <Power and source selection> (page 4).

### 2 Select the HD FM band

Push the Control knob towards up.

Switches between the FM1, FM2, and FM3 bands each time you push towards up.

Select the HD AM band

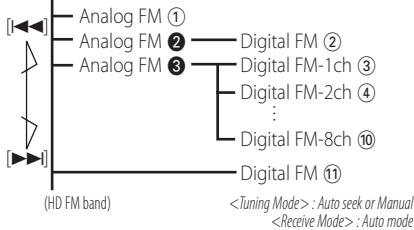
Push the Control knob towards down.

### 3 Tune up or down program

Push the Control knob towards right or left.

If the sub channel is available in Digital FM broadcast when **37** Seek Mode of <Function setting> (page 16) is set to Auto seek or Manual, the channel can be switched.

Example:



- During the reception of ①, tune up: ② ➔ ③ ➔ ④ ...
- During the reception of ⑪, tune down: ⑪ ➔ ⑩ ...



- By using the **39** Receive mode of <Function setting> (page 16) the modes can be switched to digital broadcast automatic switching, analog broadcast only, or digital broadcast only.
- When "Digital" has been set with "Receive Mode", the seek time will be longer to allow a check of whether the transmission is a digital broadcast.
- It will take few seconds to receive the digital broadcasting after selecting the frequency.
- When Tuning up, it will switch to the next frequency if it is switched before receiving a Digital broadcast. (② ➔ ③)
- When Tuning down, it will received an Analog broadcasting if a Digital broadcast is not received. (⑪ ➔ ③)

## Station Preset Memory

Putting a station in the memory.

**1 Select the frequency to put in the memory**  
Push the Control knob towards right or left.

**2 Enter Preset Memory mode**

Press the [ Q ] button.

"LIST & MEMORY" is displayed.

**3 Select the number to put in the memory**

Turn the Control knob.

**4 Determine the number to put in the memory**

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

**Canceling the Preset Memory mode**

Press the [ ⏪ ] button.

## Preset Tuning

Recalling the stations in the memory.

**1 Enter Preset Tuning mode**

Press the [ Q ] button.

**2 Select a desired station in the memory**

Turn the Control knob.

**3 Recall the station**

Press the [ENTER] button.

**Canceling Preset Tuning**

Press the [ ⏪ ] button.



## iTunes Tagging

By using an iTunes Tagging enabled HD Radio you can tag your music. When you hear a song you enjoy on your local HD Radio station, you only have to press the [ENTER] button. The song's information will then be saved on this unit. The saved songs will then show up in a playlist called "Tagged" in iTunes the very next time you sync your iPod to your computer. Then you just need to click and then easily buy and download the song you were tagging directly from the Apple iTunes Music Store.

### 1 Enter HD Radio iTunes tagging mode

Press the [ENTER] button.

"TAG" will be indicated on the display when song information can be registered.

"TAG Storing" is indicated on the display while a tag is being stored to this unit. "TAG Stored" is indicated on the display after a tag is stored.

"TAG Transferred" is indicated on the display after a tag is stored to your iPod.



- Turn "ON" the iTunes Tagging of <Function setting> (page 16) when using this function.
- Up to 50 TAGs (song's information) can be registered to this unit. When iPod is connected, the TAG information registered to this unit is transferred to the connected iPod.
- The memory usage can be checked by selecting Memory count display of <Function setting> (page 16).

## Direct Access Tuning

Entering the frequency and tuning.

### 1 Enter Direct Access Tuning mode

Press the [DIRECT] button on the remote control.

"- - - -" is displayed.

### 2 Select Tuning item

Press the [DIRECT] button on the remote control.

Pressing the [DIRECT] button each time switches the following tuning items as follows.

Tuning item	Display
Frequency	"- - - -"
Channel	"CH -" / "HD -"
Cancelling Direct Access Tuning	—

### 3 Enter the frequency or Channel

Press the number buttons on the remote control.

Example of frequency input:

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

### 4 Do Direct Access Tuning

Press the [◀◀] or [▶▶] button on the remote control.

### Cancelling Direct Access Tuning

Press the [↶] button on the remote control.

# Satellite Radio tuner (Optional Accessory) control

## Basic Operation

---

### Selecting Satellite Radio source

Press the [SRC] button.

Select the "SIRIUS" or "XM" display.

For how to select source item, refer to <Power and source selection> (page 4).



- 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"/"No Signal" appears.

### Selecting the channel

Push the Control knob towards right or left.

### Selecting the Preset Band

Push the Control knob toward up.

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

## Category and Channel Search

---

Selecting the channel and category you want to receive.

### 1 Enter Category and Channel Search mode

Press the [ Q ] button twice.

### 2 Select the Category

Turn the Control knob to select Category, and then press the [ENTER] button.

### 3 Select the Channel

Turn the Control knob to select Channel, and then press the [ENTER] button.

### Canceling Category and Channel Search mode

Press the [ ⏪ ] button for at least 1 second.



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

## Channel Preset Memory

---

Putting the channel in the memory.

### 1 Select the channel to put in the memory

Push the Control knob towards right or left.

### 2 Enter Preset Memory mode

Press the [ Q ] button.

### 3 Select the number to put in the memory

Turn the Control knob.

### 4 Register channel to preset number

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

### Canceling the Preset Memory mode

Press the [ Q ] button.



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

## Preset Tuning

---

Recalling the channels in the memory.

### 1 Enter Preset Tuning mode

Press the [ Q ] button.

### 2 Select a desired channel in the memory

Turn the Control knob.

### 3 Recall the channel

Press the [ENTER] button.

### Canceling Preset Tuning

Press the [ Q ] button.

## Channel Scan

---

Every receivable Channel is checked for 10 seconds.

### 1 Start Channel Scan

Press the [S.MODE] button.

### 2 Release it when the channel you want to listen to is received

Press the [S.MODE] button.

## **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 on the remote control.

### **3 Search the channel**

Press the [◀◀] or [▶▶] button on the remote control.

### **Canceling Direct Access Tuning**

Press the [↶] 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.

## Operation of hands-free phoning

### Before Use

- For details on the Bluetooth cell-phone with the hands-free function, see <About the Cell-Phone> (page 40).
- You need to register your cell-phone before using it with this unit. For more details, see <Registering Bluetooth device> (page 32).
- If you have registered two or more cell-phones, you need to select one of them. For more details, see <Selecting the Bluetooth device You Wish to Connect> (page 34).
- To use the Phone Book, it must be downloaded to this unit in advance. For details, see <Downloading the Phone Book> (page 33).

### Receiving a call

#### Answering a Phone Call

Press the [ENTER] button.



- The following operations disconnect the line:
  - Inserting a CD.
  - Connecting a USB device.
- The name of the calling party is displayed if it has already been registered in the Phone Book.

#### Rejecting an Incoming Call

Press the [SRC] button.

### Calling a number in the Phone Book

#### 1 Enter Bluetooth mode

Press the [FNC] button for at least 1 second.

"BT MODE" is displayed.

#### 2 Select the Name search mode

Turn the Control knob to select "Name Search", and then press the [ENTER] button.

#### 3 Enter the initial of name

Operation type	Operation
Select the characters.	Turn the Control knob.
Move the character page.	Push the Control knob towards up or down.

#### 4 Search for the name

Press the [ENTER] button.

#### 5 Select the phone number

Turn the Control knob.

Pushing the Control knob towards right or left sorts the Phone Book by name.

### 6 Make a call

Press the [ENTER] button.



- Pressing [S.MODE] button each time switches between name and telephone number.
- During search, a non-accent character such as "u" is searched for instead of an accent character such as "ü".

### Dialing a number

#### 1 Enter Bluetooth mode

Press the [FNC] button for at least 1 second.

"BT MODE" is displayed.

#### 2 Select the Number dial mode

Turn the Control knob to select "Number Dial", and then press the [ENTER] button.

#### 3 Enter a phone number

Turn the Control knob to select number, and then Push the Control knob towards right.

#### 4 Make a call

Press the [ENTER] button.

#### To erase the entered phone number digit by digit:

Push the Control knob towards left.



- You can input a maximum of 32 digits.

### Calling a number in the call log

#### 1 Enter Bluetooth mode

Press the [FNC] button for at least 1 second.

"BT MODE" is displayed.

#### 2 Select the call log mode

Turn the Control knob to select "Incoming Calls", "Outgoing Calls", or "Missed Calls", and then press the [ENTER] button.

"Incoming Calls": Incoming calls

"Outgoing Calls": Outgoing calls

"Missed Calls": Missed calls

#### 3 Select a name or phone number

Turn the Control knob.

#### 4 Make a call

Press the [ENTER] button.



- Pressing [S.MODE] button each time switches between name and telephone number.
- The outgoing call list, the incoming call list, and the missed call list, are the lists of calls originated from and received at this unit. They are not the ones stored in the cell-phone memory.

### Speed dialing (Preset dial)

---

#### 1 Enter Bluetooth mode

Press the [FNC] button for at least 1 second.

"BT MODE" is displayed.

#### 2 Select the number you want to recall from the memory

Turn the Control knob to select recall number ("P1" – "P6"), and then press the [ENTER] button.

#### 3 Make a call

Press the [ENTER] button.



- You need to register the preset dial number. Refer to <Registering to the Preset Dial Number List> (page 29).

### Registering to the Preset Dial Number List

---

#### 1 Enter the phone number you wish to register

Enter the phone number with reference to the following:

Dialing a number/ Calling a number in the call log/  
Calling a number in the Phone Book

#### 2 Enter Preset Memory mode

Press the [ Q ] button.

#### 3 Select a number and store it in the memory

Turn the Control knob to select memory number ("P1" – "P6"), and then press the [ENTER] button for at least 2 second.

#### Canceling the Preset Memory mode

Press the [ ↵ ] button.

### During a call

---

#### Disconnecting a Call

Press the [SRC] button.

#### Switching to the Private Mode

Push the Control knob towards right or left.

Switches between Private talk ("PRIVATE") and Hands-free talk each time this button is pressed.



- Depending on the type of your cell-phone, switching to the private talk mode may select the source that was used before commencing the hands-free connection. If this happens, the source cannot be switched back to the hands-free talk mode by operating this unit. Operate your cell-phone to return to the hands-free talk mode.

#### Adjusting the Voice Volume during a Call

Turn the Control knob.

### Call waiting

---

#### Answering Another Incoming Call with the Current Call Suspended

- 1 Press the [ENTER] button.
- 2 Turn the Control knob to select "Answer"; and then press the [ENTER] button.

#### Answering another Incoming Call after Terminating the Current Call

Press the [SRC] button.

#### Continuing the Current Call

- 1 Press the [ENTER] button.
- 2 Turn the Control knob to select "Reject"; and then press the [ENTER] button.

#### Answering the Waiting Call after Terminating the Current Call

Press the [SRC] button.

#### Switching between the Current Call and Waiting Call

Press the [ENTER] button.

Each pressing of this knob switches the calling party.

## Operation of hands-free phoning

### Clearing the Disconnection Message

Press the [FNC] button for at least 1 second.

"HF Disconnect" disappears.

### Making a voice dialing call

#### 1 Enter Bluetooth mode

Press the [FNC] button for at least 1 second.

"BT MODE" is displayed.

#### 2 Enter voice recognize mode

Press the [AUDIO] button for at least 1 second.

#### 3 Have the unit recognize your spoken name

Press the [ENTER] button. If you hear a beep, speak a registered name within 2 seconds.

#### 4 Have the unit recognize the spoken category

When you hear a beep, speak the category within 2 seconds.

The recognized phone number (name) is displayed.

When you want to change the displayed phone number (name), press the [S.MODE] button.

#### 5 Make a call






Press the [ENTER] button.



- If your voice cannot be recognized, a message is displayed. Refer to <Troubleshooting Guide> (page 41). Pressing the [ENTER] button allows you to retry voice input.
- Both the name and category requires registration of a voice tag. Refer to <Setting a Voice Command for Category> (page 36).

### Displays of phone number type (category)

The category items in the Phone Book are displayed as follows:

Display	Information
"General" / 	General
"Home" / 	Home
"Office" / 	Office
"Mobile" / 	Mobile
"Other" / 	Other

## Bluetooth Audio Operation

### Before Use

---

- For details on the Bluetooth Audio player which can be connected, see [<About the Bluetooth Audio player> \(page 40\)](#).
- You need to register your Bluetooth Audio player before using it with this unit. For more details, see [<Registering Bluetooth device> \(page 32\)](#).
- You need to select the Bluetooth audio player you wish to connect. Refer to [<Selecting the Bluetooth device You Wish to Connect> \(page 34\)](#).

### Basic Operation

---

#### **Selecting Bluetooth Audio source**

Press the [SRC] button.

Select the "BT AUDIO EXT" display.

For how to select source item, refer to [<Power and source selection> \(page 4\)](#).

#### **Pause and play**

Press the [↵] button.

#### **Music Search**

Push the Control knob towards right or left.



- All or some of the operations above cannot be performed if the Bluetooth audio player is not ready for remote control.
- Switching between Bluetooth audio sources does not start or stop playback automatically. Perform the operation for starting or stopping playback.
- Some audio players cannot be controlled remotely or reconnected after Bluetooth disconnection. Operate the main unit of the audio player to connect Bluetooth.
- When "2Zone" is set to "ON" and "2Zone F/R Select" is set to "Front" of [<Audio Control> \(page 7\)](#), Bluetooth Audio source cannot be selected.

# Bluetooth Setup

## Registering Bluetooth device

To make your Bluetooth device (cell-phone) usable with this unit, you need to register it (pairing). You can register up to five Bluetooth devices to this unit.

### When registering from Bluetooth devices

- 1 Turn on the this unit.
- 2 Start registering a unit by operating the Bluetooth device  
By operating the Bluetooth device, register the hands-free unit (pairing). Select "KCA-BT200" from the list of connected units.

- 3 Enter a PIN code  
Input the PIN code registered as mentioned in <Registering PIN Code> (page 33).

Check that registration is complete on the Bluetooth device.

- 4 By operating the Bluetooth device, start hands-free connection.

### When registering from this unit

- 1 Enter Bluetooth mode  
Press the [FNC] button for at least 1 second. "BT MODE" is displayed.
- 2 Enter Function setting mode  
Press the [FNC] button.
- 3 Select Bluetooth device registration mode  
The item can be selected and determined as follows.  
"Settings" → "Detailed Settings" → "Device Regist."  
To select the item, turn the Control knob. To determine the item, press the [ENTER] button. Search for the Bluetooth device.  
When search is completed, "Finished" is displayed.

- 4 Select the Bluetooth device  
Turn the Control knob to select desired Bluetooth device, and then press the [ENTER] button.

- 5 Input the PIN code

Operation type	Operation
Select the numbers.	Turn the Control knob.
Move to the next digit.	Push the Control knob towards right.
Delete the last digit.	Push the Control knob towards left.

- 6 Transmit the PIN code  
Press the [ENTER] button.

If "Pairing Success" is displayed, registration is complete.

- 7 Return to the device list  
Press the [ENTER] button.

- 8 Exit Bluetooth mode  
Press the [SRC] button.



- This unit allows up to eight digits to be input for a PIN code. If a PIN code cannot be input from this unit, it can be input from the Bluetooth device.
- If there are 5 or more Bluetooth devices registered, you cannot register a new Bluetooth device.
- If the error message appears even though the PIN code is correct, try <Registering Special Bluetooth device> (page 32).

## Registering Special Bluetooth device

Allow registration of a special device that cannot be registered normally (pairing).

- 1 Enter Bluetooth mode  
Press the [FNC] button for at least 1 second. "BT MODE" is displayed.
- 2 Enter Function setting mode  
Press the [FNC] button.
- 3 Select Special device registration mode  
The item can be selected and determined as follows.  
"Settings" → "Detailed Settings" → "SPCL DVC Select"  
To select the item, turn the Control knob. To determine the item, press the [ENTER] button.
- 4 Select a device name  
Turn the Control knob to select desired device name, and then press the [ENTER] button.  
If "Completed" is displayed, registration is completed.
- 5 Go through the procedure of <Registering Bluetooth device> (page 32) and complete the registration (pairing).

### Canceling Bluetooth mode

Press the [SRC] button.



- If the device name is not in the list, select "Other Phones".



## Registering PIN Code

By operating the Bluetooth device, specify the PIN code necessary for registering this unit.

### 1 Enter Bluetooth mode

Press the [FNC] button for at least 1 second.

"BT MODE" is displayed.

### 2 Enter Function setting mode

Press the [FNC] button.

### 3 Select PIN code edit mode

The item can be selected and determined as follows.

"Settings" → "Detailed Settings" → "PIN Code Edit"

To select the item, turn the Control knob. To determine the item, press the [ENTER] button.

### 4 Input the PIN code

Operation type	Operation
Select the numbers.	Turn the Control knob.
Move to the next digit.	Push the Control knob towards right.
Delete the last digit.	Push the Control knob towards left.

### 5 Register a PIN code

Press the [ENTER] button.

If "Completed" is displayed, registration is complete.

### 6 Exit Bluetooth mode

Press the [SRC] button.



- By default, "0000" is specified.
- A PIN code can be specified with up to eight digits.

## Downloading the Phone Book

Download the phone book data from the cell-phone to this unit so that you can use the Phone Book of this unit.

### Downloading automatically

If the cell-phone supports a phone book synchronization function, the phone book is downloaded automatically after Bluetooth connection.



- Setting on the cell-phone may be required.
- If no phone book data is found in the unit even after the "Completed" is displayed, your cell-phone may not support automatic download of phone book data. In this case, try downloading manually.

### Downloading from the cell-phone manually

#### 1 Operate the cell-phone to end the hands-free connection.

#### 2 Operate the cell-phone to send the phone book data to this unit

By operating the cell-phone, download the phone book data to this unit.

- During downloading: "Downloading" is displayed.
- After completion of downloading: "Completed" is displayed.

#### 3 Operate the cell-phone to start the hand-free connection.

### Clearing the downloading completion message

Press any button.



- Up to 1000 phone numbers can be registered for each registered cell-phone.
- Up to 32 digits can be registered for each phone number along with up to 50\* characters representing a name. (\* 50: Number of alphabetic alphabetical characters. Fewer characters can be input depending on the type of characters.)
- To cancel downloading of the phone book data, operate the cell-phone.

## Bluetooth Setup

### Selecting the Bluetooth device You Wish to Connect

---

When two or more Bluetooth devices have already been registered, you need to select the Bluetooth device you wish to use.

#### 1 Enter Bluetooth mode

Press the [FNC] button for at least 1 second.  
"BT MODE" is displayed.

#### 2 Enter Function setting mode

Press the [FNC] button.

#### 3 Select Bluetooth device selection mode

The item can be selected and determined as follows.

"Settings" → "Phone Selection" (to select the cellphone) or "Audio Selection" (to select the audio player)

To select the item, turn the Control knob. To determine the item, press the [ENTER] button.  
"(name)" is displayed.

#### 4 Select the Bluetooth device

Turn the Control knob.

#### 5 Set up the Bluetooth device

Press the [ENTER] button.

\*'(name)' or '-(name)'  
\*': The selected Bluetooth device is busy.

": The selected Bluetooth device is on standby.

": The selected Bluetooth device is on standby.

" " (blank): The Bluetooth device is deselected.

#### 6 Exit Bluetooth mode

Press the [SRC] button.



- If a cell-phone is already selected, deselect it, and then select a different one.
- If you cannot select a device using the audio player, connect the device with the audio player.

### Deleting a Registered Bluetooth device

---

You can delete a registered Bluetooth device.

#### 1 Enter Bluetooth mode

Press the [FNC] button for at least 1 second.  
"BT MODE" is displayed.

#### 2 Enter Function setting mode

Press the [FNC] button.

#### 3 Select Bluetooth device deletion mode

The item can be selected and determined as follows.

"Settings" → "Detailed Settings" → "Device Delete"

To select the item, turn the Control knob. To determine the item, press the [ENTER] button.  
Device name is displayed.

#### 4 Delete the selected Bluetooth device

Turn the Control knob to select desired device name, and then press the [ENTER] button.

#### 5 Turn the Control knob to select "YES"; and then press the [ENTER] button.

"Completed" is displayed.

#### 6 Exit Bluetooth mode

Press the [SRC] button.



- When a registered cell-phone is deleted, its Phone Book, log, SMS, and voice tag are also deleted.

### Displaying the Firmware Version

---

Display the version of the firmware of this unit.

#### 1 Enter Bluetooth mode

Press the [FNC] button for at least 1 second.  
"BT MODE" is displayed.

#### 2 Enter Function setting mode

Press the [FNC] button.

#### 3 Select Bluetooth Firmware update mode

The item can be selected and determined as follows.

"Settings" → "Detailed Settings" → "BT F/W Update"

To select the item, turn the Control knob. To determine the item, press the [ENTER] button.  
The firmware version appears.

#### 4 Exit Bluetooth mode

Press the [SRC] button.



- For how to update the firmware, access our web site.  
[www.kenwood.com/bt/information/](http://www.kenwood.com/bt/information/)

## Adding a voice dialing command

Add a voice tag to the phonebook for voice dialing. You can register up to 35 voice tags.

### 1 Enter Bluetooth mode

Press the [FNC] button for at least 1 second. "BT MODE" is displayed.

### 2 Enter Function setting mode

Press the [FNC] button.

### 3 Select Phonebook name edit mode

The item can be selected and determined as follows.

"Settings" → "Voice Tag" → "PB Name Edit"

To select the item, turn the Control knob. To determine the item, press the [ENTER] button.

### 4 Search for the name to register

Turn the Control knob to select name, and then press the [ENTER] button.

If a voice tag has already been registered for a name, "\*" is displayed before the name.

### 5 Select a mode

Turn the Control knob.

Display	Operation
"Register"	Register a voice tag.
"Check"*	Play a voice tag.
"Delete"*	Delete a voice tag.

\*Displayed only when a name for which a voice tag has been registered is selected.

## Selecting "Register" (Regist)

### 6 Register a voice tag (first)

Press the [ENTER] button. When you hear a beep, speak the voice tag within 2 seconds.

### 7 Confirm the voice tag (second)

Press the [ENTER] button. When you hear a beep, speak the same voice tag again within 2 seconds.

"Completed" is displayed.

### 8 Exit Function setting mode

Press the [↵] button for at least 1 second.

Return to step 2. You can register another voice tag continuously.



- If your voice cannot be recognized, a message is displayed. (Refer to <Troubleshooting Guide> (page 41)) Pressing the [ENTER] button allows you to retry voice input.

## Selecting "Check" (Play)

### 6 Press the [ENTER] button.

Play the registered voice and return to step 2.

## Selecting "Delete" (Delete)

### 6 Delete a voice tag

Press the [ENTER] button.

### 7 Turn the Control knob to select "YES", and then press the [ENTER] button.

## Exit Bluetooth mode

Press the [SRC] button.

# Bluetooth Setup

## Setting a Voice Command for Category

Add a voice tag to the phone number category (type) for voice calling.

### 1 Enter Bluetooth mode

Press the [FNC] button for at least 1 second.  
"BT MODE" is displayed.

### 2 Enter Function setting mode

Press the [FNC] button.

### 3 Select Phone Number type edit mode

The item can be selected and determined as follows.

"Settings" → "Voice Tag" → "PN Type Edit"

To select the item, turn the Control knob. To determine the item, press the [ENTER] button.

### 4 Enter Phone Number type edit mode

Press the [ENTER] button.

### 5 Select the category (type) you wish to set

Turn the Control knob to select desired category name, and then press the [ENTER] button.

"General"/"Home"/"Office"/"Mobile"/"Other"

### 6 Select a mode

Turn the Control knob.

Display	Operation
"Register"	Register a voice tag.
"Check"*	Play a voice tag.
"Delete"*	Delete a voice tag.

\*Displayed only when a name for which a voice tag has been registered is selected.

### 7 Register the category (type) by performing steps 6 to 7 in <Adding a voice dialing command> (page 35).

### 8 Exit Bluetooth mode

Press the [SRC] button.



- Set the voice tag for all the 5 categories. If the voice tag is not registered for all the categories, the Phonebook may not be recalled by voice command.

## SMS (Short Message Service)

### Displaying the SMS

The SMS received by at the cell-phone is displayed on the receiver.

A newly received message is displayed.



- To prevent car accidents, the driver should not read the SMS while driving.

#### When a new message arrives

"SMS Received" is displayed.

The display disappears with any operations.

### Displaying the SMS

#### 1 Enter Bluetooth mode

Press the [FNC] button for at least 1 second.

"BT MODE" is displayed.

#### 2 Enter Function setting mode

Press the [FNC] button.

#### 3 Select SMS Inbox mode

The item can be selected and determined as follows.

"Settings" → "SMS Inbox"

To select the item, turn the Control knob. To determine the item, press the [ENTER] button.

#### 4 Select a message

Turn the Control knob.

Each press of the [S.MODE] button switches between displaying the telephone number or name and message reception date.

#### 5 Display the text

Press the [ENTER] button.

Turn the Control knob to scroll through the message.

Press the [ENTER] button to return to the message list screen.

#### 6 Exit Bluetooth mode

Press the [SRC] button.



- The unopened message is displayed at the beginning of the list. Other messages are displayed in the order of reception.
- The SMS that are received when the cell-phone is not linked with Bluetooth cannot be displayed. Download the SMS.
- The short message cannot be displayed during downloading the SMS.

### Downloading the SMS

Download the short message (SMS) received by the cell-phone so that it can be read on this unit.

#### 1 Enter Bluetooth mode

Press the [FNC] button for at least 1 second.

"BT MODE" is displayed.

#### 2 Enter Function setting mode

Press the [FNC] button.

#### 3 Select SMS download mode

The item can be selected and determined as follows.

"Settings" → "SMS Download"

To select the item, turn the Control knob. To determine the item, press the [ENTER] button.

#### 4 Start downloading

Press the [ENTER] button.

"SMS Downloading" is displayed.

When the downloading finishes, "Completed" is displayed.

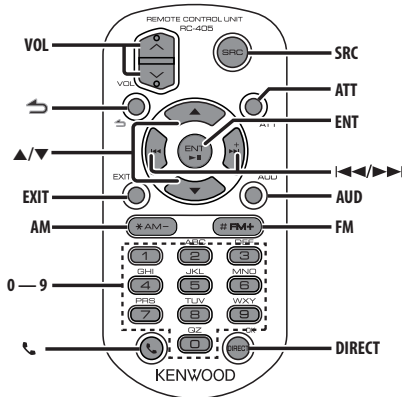
#### 5 Exit Bluetooth mode

Press the [SRC] button.



- The cell-phone must be able to transmit the SMS using Bluetooth. Setting on the cell-phone may be required. If the cell-phone does not support SMS function, the SMS download item in Function Control mode is not displayed.
- When the SMS is downloaded from the cell-phone, the unopened messages in the cell-phone are opened.
- The up to 75 already-read and unread short messages respectively can be downloaded.

## Basic Operations of remote control



### General control

- Volume control: [VOL]
- Source selection: [SRC]
- Volume reduction: [ATT]  
When the button is pressed again, the volume returns to the previous level.
- Return to previous item: [↶]
- Exit from mode: [EXIT]
- Selection of item: [▲]/[▼]
- Determination: [ENT]
- Enter Audio Control mode: [AUD]

### In Tuner/HD Radio source

- Band selection: [FM]/[AM]
- Station selection: [◀◀]/[▶▶]
- Recall preset stations: [1] — [6]

### In CD/Audio file source

- Music selection: [◀◀]/[▶▶]
- Folder selection: [FM]/[AM]
- Pause/Play: [ENT]
- Enter Music search mode: [▲]/[▼]
- Movement between folders/files during Music search mode: [▲]/[▼]
- Return to previous folder: [↶]

### In iPod source

- Enter Music search mode: [▲]/[▼]
- Movement between items during Music search mode: [▲]/[▼]
- Return to previous item: [↶]

### In Satellite Radio tuner source

- Band selection: [FM]
- Channel selection: [◀◀]/[▶▶]
- Recall preset channels: [1] — [6]

### Hands-free phone control

#### Making a call

- Enter Bluetooth mode: [📶]
- Select a dialing method: [▲]/[▼] → [ENT]
- Number dial input:  
Input a digit: [0] – [9]  
Input "+": [▶▶]  
Input "#": [FM]  
Input "\*": [AM]  
Clear the entered phone number: [◀◀]
- Make a call: [DIRECT]

#### Receiving a call

- Answer the call: [📶]

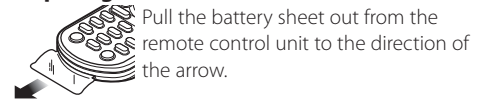
#### Call waiting

- Answer Another Incoming Call with the Current Call Suspended: [📶]

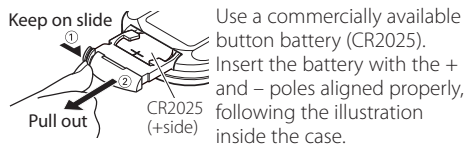
#### During a call

- End the call: [SRC]

### Preparing the remote control unit



### Changing the battery of the remote control unit



### CAUTION

- Keep battery out of reach of children and in original package until ready to use. Dispose of used batteries promptly. If swallowed contact physician immediately.
- Do not leave the battery near fire or under direct sunlight. A fire, explosion or excessive heat generation may result.
- Do not set the remote control in hot places such as on the dashboard.
- Danger of explosion if Lithium battery is incorrectly replaced. Replace only with the same or equivalent type.

# Appendix

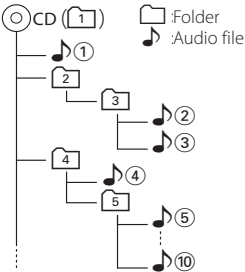
## About Audio file

- **Playable Audio file**  
MP3 (.mp3), WMA (.wma)
- **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
- **Playable USB device file system**  
FAT16, FAT32

Even if the audio files comply with the standards listed above, the play may be 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/cs/ce/audiofile/](http://www.kenwood.com/cs/ce/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.

## About USB device

- When the USB device is connected to this unit, it can be charged up provided that this unit is powered.
- 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 and Multi Card Reader.
- Save 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.

- 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.

## iPod/iPhone that can be connected to this unit

Made for

- iPod nano (1st generation)
- iPod nano (2nd generation)
- iPod nano (3rd generation)
- iPod nano (4th generation)
- iPod nano (5th generation)
- iPod with video
- iPod classic
- iPod touch (1st generation)
- iPod touch (2nd generation)

Works with



- Update iPod/iPhone software to the latest version.
- Type of control available varies depending on the type of connected iPod. See [www.kenwood.com/cs/ce/ipod/](http://www.kenwood.com/cs/ce/ipod/) for further details.
- The word "iPod" appearing in this manual indicates the iPod or the iPhone connected with the iPod connection cable\* (optional accessory).  
\* Not supported model KCA-iP500.
- Refer to the web site for connectable iPod and iPod connection cable.  
[www.kenwood.com/cs/ce/ipod/](http://www.kenwood.com/cs/ce/ipod/)



- If you start playback after connecting the iPod, the music that was playing on 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.
- You cannot operate iPod if "KENWOOD" or "✓" displayed on iPod.

# Appendix

## About “KENWOOD Music Editor”

- This unit supports the PC application “KENWOOD Music Editor Lite ver1.0” or later.
- When you use the audio file with database information added by the “KENWOOD Music Editor Lite ver1.0”, you can search a file by title, album or artist name using the <Music Search> (page 9).
- In the Instruction manual, the term “Music Editor media” is used to mean the device that contains audio files with database information added with KENWOOD Music Editor.
- “KENWOOD Music Editor Lite ver1.0” is available from the following web site:  
[www.kenwood.com/cs/ce/](http://www.kenwood.com/cs/ce/)
- For further information on “KENWOOD Music Editor Lite ver1.0”, refer to the site above or the application help.

## About Satellite Radio tuner (Optional)

This unit supports Satellite Radio tuners which are released by SIRIUS and XM.  
Refer to the instruction manual of Satellite radio tuner.

## About HD Radio Reception (Optional)

When you connect an HD Radio tuner, Tuner features of the unit are disabled and changed to HD Radio tuner features.  
With the HD Radio tuner, you can use the similar functions of Tuner features. Refer to Tuner features for how to use the functions.

## About the Cell-Phone

This unit conforms to the following Bluetooth specifications:

<b>Version</b>	Bluetooth Standard Ver. 1.2
<b>Profile</b>	HFP (Hands Free Profile) OPP (Object Push Profile) PBAP (Phonebook Access Profile) SYNC (Synchronization Profile)

For the cell-phones verified for compatibility, access the following URL:

<http://www.kenwood.com/cs/ce/bt/>



- The units supporting the Bluetooth function have been certified for conformity with the Bluetooth Standard following the procedure prescribed by Bluetooth SIG. However, it may be impossible for such units to communicate with your cell-phone depending on its type.
- HFP is a profile used to make a hands-free call.
- OPP is a profile used to transfer data such as a phone book between units.

## About the Bluetooth Audio player

This unit conforms to the following Bluetooth specifications:

<b>Version</b>	Bluetooth Standard Ver. 1.2
<b>Profile</b>	A2DP (Advanced Audio Distribution Profile) AVRCP (Audio/Video Remote Control Profile)



- A2DP is a profile designed to transfer the music from an audio player.
- AVRCP is a profile designed to control playback and selection of music by an audio player.



# Troubleshooting Guide

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

- ! Cannot set up Display.**
  - ▶ **🔊 Demo Mode** of <Function setting> (page 16) is not set to Off.

- ! Cannot set up the subwoofer.**
  - **Cannot set up the low pass filter.**
  - **No output from the subwoofer.**
    - ▶ "SubWoofer" of <Audio Control> (page 7) is not set to On.

- ! Cannot set up the subwoofer Phase.**
  - ▶ "LPF SubWoofer ADJ" of <Audio Control> (page 7) is set to "Through".

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 Key beep does not sound**
  - ✓ The preout jack is being used.
    - 🔊 The Key beep cannot 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.

## Disc source

- ? The specified disc does not play, but another one plays instead.**
  - ✓ The specified CD is quite dirty.
    - 🔊 Clean the CD, referring to the CD cleaning of the section on <Handling CDs> (page 3).
  - ✓ 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 3).
  - ✓ The recording condition is bad.
    - 🔊 Record the media again or use another media.

## The messages shown below display your systems condition.

- TOC Error:**
  - No disc has been loaded in the disc magazine.
  - The CD is quite dirty. The CD is upside-down. The CD is scratched a lot.
- Error 05:** The disc is unreadable.
- Error 77:** The unit is malfunctioning for some reason.
  - ⇨ Press the reset button on the unit. If the "Error 77" code does not disappear, consult your nearest service center.
- Error 99:** Something is wrong with the disc magazine. Or the unit is malfunctioning for some reason.
  - ⇨ Check the disc magazine. And then press the reset button on the unit. If the "Error 99" code does not disappear, consult your nearest service center.
- 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.
- 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.
- Read Error:** The file system of the connected USB device is broken.
  - ⇨ Copy the files and folders for the USB device again. If the error message is still displayed, initialize the USB device or use other USB devices.
- 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.
- N/A Device:**
  - An unsupported USB device is connected.
  - Connection to the iPod has failed.
    - ⇨ Check that the connected iPod is an iPod that is supported. See <About Audio file> (page 39) for information on supported iPods.

# Troubleshooting Guide

No Music Data/Error 15:	<ul style="list-style-type: none"><li>• The connected USB device contains no playable audio file.</li><li>• Media was played that does not have data recorded that the unit can play.</li></ul>	Too Long:	The word or utterance is too long to be recognized.
USB ERROR:	Some trouble may have occurred to the connected USB device. <ul style="list-style-type: none"><li>➡ Remove the USB device, then cycle the power switch to ON. If the same display is repeated, use another USB device.</li></ul>	No Phonebook:	Data is not contained in the phone book.
iPod Error:	Connection to the iPod has failed. <ul style="list-style-type: none"><li>➡ Remove the USB device and then reconnect it.</li><li>➡ Confirm that the software for the iPod is the latest version.</li></ul>	No Message:	No short message in In Box.
USB REMOVE (Blink):	The Remove mode has been selected for the USB device/iPod. You can remove the USB device/iPod safely.	No Record:	The voice tag is not registered in the phonebook.
No Number:	<ul style="list-style-type: none"><li>• The calling party does not notify a caller ID.</li><li>• There is no phone number data.</li></ul>	Memory Full:	The number of voice tags reaches the maximum number to be registered in the phonebook.
No Data:	<ul style="list-style-type: none"><li>• There is no outgoing call list.</li><li>• There is no incoming call list.</li><li>• There is no missed call list.</li><li>• There is no phone book list.</li></ul>	Favorite: No Memory:	The procedure is not registered to Favorite Preset Memory
No Entry:	The cell-phone has not been registered (pairing).	No Access:	The procedure preset with Favorite Control cannot be available. The preset content may not be recalled depending on the selected source or mode.
HF Disconnect:	The unit cannot communicate with the cell-phone.	No Voice:	No call.
HF Error 07:	The memory cannot be accessed. <ul style="list-style-type: none"><li>➡ Turn off the power and on again. If this message still appears, press the reset button on the control unit.</li></ul>	Memory Full:	The tag memory of HD Radio is FULL.
HF Error 68:	The unit cannot communicate with the cell-phone. <ul style="list-style-type: none"><li>➡ Turn off the power and on again. If this message still appears, press the reset button on the control unit.</li></ul>	iPod Full:	The iPod memory is FULL.
Unknown:	The Bluetooth device cannot be detected.	No TAG Function:	iPod which does not support the tag memory is connected.
Device Full:	5 Bluetooth device have already been registered. No more Bluetooth devices are registered.	N/A Channels:	No receivable channel and category.
PIN Code NG:	The PIN code is wrong.		
Connect NG:	The unit cannot be connected to the device.		
Pairing Failed:	Pairing error.		
Err No Matching:	The voice tag is wrong. Voice cannot be recognized because of an unregistered voice tag, etc.		
Too Soft:	Voice is too small and cannot be recognized.		
Too Loud:	Voice is too large to be recognized.		

# Specifications

## FM tuner section

---

- Frequency range (200 kHz step)
  - : 87.9 MHz – 107.9 MHz
- Usable sensitivity (S/N = 30dB)
  - : 9.3dBf (0.8  $\mu$ V/75  $\Omega$ )
- Quieting Sensitivity (S/N = 50dB)
  - : 15.2dBf (1.6  $\mu$ V/75  $\Omega$ )
- 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 step)
  - : 530 kHz – 1700 kHz
- Usable sensitivity (S/N = 20dB)
  - : 28 dB $\mu$  (25  $\mu$ V)

## CD player section

---

- Laser diode
  - : GaAlAs
- Digital filter (D/A)
  - : 8 Times Over Sampling
- D/A Converter
  - : 24 Bit
- Spindle speed (Audio files)
  - : 500 – 200 rpm (CLV)
- Wow & Flutter
  - : Below Measurable Limit
- Frequency response ( $\pm$ 1 dB)
  - : 10 Hz – 20 kHz
- Total harmonic distortion (1 kHz)
  - KDC-X494 : 0.008 %
  - KDC-MP445U/ KMR-440U : 0.010 %
- Signal to Noise ratio (1 kHz)
  - KDC-X494 : 110 dB
  - KDC-MP445U/ KMR-440U : 105 dB
- Dynamic range
  - : 93 dB
- MP3 decode
  - : Compliant with MPEG-1/2 Audio Layer-3
- WMA decode
  - : Compliant with Windows Media Audio

## USB Interface

---

- USB Standard
  - : USB1.1/ 2.0 (Full speed)
- File System
  - : FAT16/ 32
- Maximum Supply current
  - : 500 mA
- MP3 decode
  - : Compliant with MPEG-1/2 Audio Layer-3
- WMA decode
  - : Compliant with Windows Media Audio

## 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  $\Omega$
- Tone action
  - Bass : 100 Hz  $\pm$ 8 dB
  - Middle : 1 kHz  $\pm$ 8 dB
  - Treble : 12.5 kHz  $\pm$ 8 dB
- Preout level / Load (CD)
  - KDC-X494 : 4000 mV/10 k $\Omega$
  - KDC-MP445U/ KMR-440U : 2500 mV/10 k $\Omega$
- Preout impedance
  - :  $\leq$  600  $\Omega$

## Auxiliary input

---

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

## General

---

- Operating voltage (11 – 16V allowable)
  - : 14.4 V
- Maximum 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
  - : 2.9 lbs (1.3 kg)

Specifications subject to change without notice.



## ▲ 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 : Top plate

## 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.

## FCC 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.

This product contains a CR Coin Cell Lithium Battery which contains

Perchlorate Material – special handling may apply.

See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate)



This symbol mark indicates that Kenwood manufactured this product so as to decrease harmful influence on the environment.

- HD Radio™ and the HD Radio Ready logo are proprietary trademarks of iBiquity Digital Corporation.
- iTunes is a trademark of Apple Inc.
- iPod is a trademark of Apple Inc., registered in the U.S. and other countries.
- iPhone is a trademark of Apple Inc.
- "Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.
- "Works with iPhone" means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.
- Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.