

# KENWOOD

GPS NAVIGATION SYSTEM

## DNX7220

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## INSTRUCTION MANUAL

Kenwood Corporation



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

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# How to read this manual

This manual uses illustrations to explain its operations.

The displays and panels shown in this manual are examples used to provide clear explanations of the operations.

For this reason, they may be different from the actual displays or panels used, or some display patterns may be different.

- ▼ : Continues to the next line.
- : Ends here.

## Seek Mode

Sets a station selection.



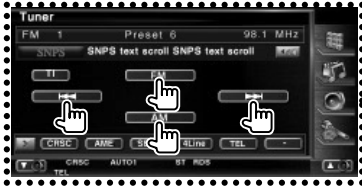
The mode is switched in following order each time you touch the button.

Display	Setting
"AUTO1"	Tunes in a station with good reception automatically.
"AUTO2"	Tunes in stations in memory one after another.
"MANU"	Switches to the next frequency manually.

## Manual Memory

Stores the current receiving station in memory.

### 1 Select a station you wish to store in memory



### 2 Store in memory



Continue to touch until the memory number appears.


## Continue to the next page

The instruction continues to the next page. Make sure to flip the page for the rest of the instruction.

Next page



### Short Press

Press the button, denoted by .



### Change in the screen

With each operation, the screen changes in the order shown here.




### Selecting a screen item

Select and choose an item on the screen.  
Select the item by touching the button on the screen.



### Press 1 second or more

Press the button, denoted by , for 1 second or more (2-3 seconds).  
Indicates to press and hold down the button until operation starts or the screen changes.  
The left example indicates to press the button for 1 second.  
Press it approximately for the seconds shown in the clock.

### Other marks



Important precautions are described to prevent injuries etc.



Special instructions, supplementary explanations, limitations, and reference pages are described.



General precautions and reference pages are shown on the item.



The initial value of each setup is shown.

# Before Use

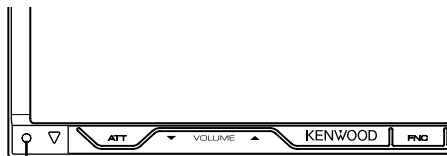
## ▲WARNING

### 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.
- Do not watch or fix your eyes on the unit's display when you are driving for any extended period.

### How to reset your unit

- If the unit or the connected unit (disc auto changer, etc.) fails to operate properly, press the Reset button. The unit returns to factory settings when the Reset button is pressed.
- Remove the USB device before pressing the Reset button. Pressing the Reset button with the USB device installed can damage the data contained in the USB device. For how to remove the USB device, refer to <Playing a USB device> (page 10).



Reset button

### Cleaning the Unit

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

If the faceplate is stained badly, wipe the stain off with a cloth moistened with neutral cleaner, then wipe it again with a clean soft dry cloth.



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

### Lens Fogging

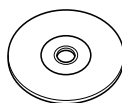
When you turn on the car heater in cold weather, dew or condensation may form on the lens in the disc player of the unit. Called lens fogging, this condensation on the lens may not allow discs to play. In such a situation, remove the disc and wait for the condensation to evaporate. If the unit still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


### Handling discs

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

### Discs that cannot be used

- Discs that are not round cannot be used.



- Discs with coloring on the recording surface or discs 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.)
- If you try to load a 3-inch-disc with its adapter into the unit, the adapter might separate from the disc and damage the unit.

### Other 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.
- The characters conforming to ISO 8859-1 character set can be displayed.
- The RDS or RBDS feature won't work where the service is not supported by any broadcasting station.

# Notes

## iPod that can be connected to this unit

You can control an iPod from this unit by connecting an iPod (commercial product) with Dock connector using an optional accessory iPod connection cable (KCA-iP300V).

The following iPods can be controlled from this unit.

- iPod nano
- iPod nano (Second Generation)
- iPod nano (3rd Generation)
- Fifth Generation iPod (iPod with video)
- iPod classic
- iPod touch

Update iPod software to the latest version.

Supports audio only on iPod Touch.

By connecting your iPod to this unit with an optional accessory iPod connection cable (KCA-iP300V), you can supply power to your iPod as well as charge it while playing music. However, the power of this unit must be on.

## Bluetooth unit that can be connected to this unit

- KCA-BT200

## List of playable discs

Disc types	Standard	Support	Remark	
DVD	DVD Video	○		
	DVD Audio	×		
	DVD-R	○		
	DVD-RW	○	MP3/WMA/AAC/JPEG/MPEG Playback	
	DVD+R	○	Multi-border/Multisession/ (Playback depends on authoring conditions)	
	DVD+RW	○	Compatible with 8-cm (3 inch) discs	
	DVD-R DL (Dual layer)	○		
	DVD+R DL (Double layer)	○	Only video format	
	DVD-RAM	×		
	CD	Music CD	○	CD-TEXT/8-cm (3 inch) discs supported.
CD-ROM		○	MP3/WMA/AAC/JPEG playback	
CD-R		○	Multisession supported	
CD-RW		○	Packet write not supported.	
DTS-CD		○		
Video CD (VCD)		○		
Super video CD		○		
Photo CD		×		
CD-EXTRA		△	Only music CD session can be played.	
HDCD		△	Sound quality of normal CD music	
CCCD		×		
Others		Dualdisc	×	
		Super audio CD	△	Only CD layer can be played.

○ : Playback is possible.

△ : Playback is partly possible.

× : Playback is impossible.

## Use of "DualDisc"

When playing a "DualDisc" on this unit, the surface of the disc that is not played may be scratched while the disc is inserted or ejected. Since the music CD surface does not conform to the CD standard, playback may be impossible.

(A "DualDisc" is a disc with one surface containing DVD standard signals and the other surface containing music CD signals.)

## About Audio files

- **Playable Audio file**  
AAC-LC (.m4a), MP3 (.mp3), WMA (.wma)

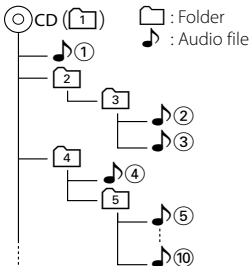


- If music of normal CD and other playback systems are recorded in the same disc, only the playback system recorded at the first setout is played.
- **Playable disc media**  
CD-R/RW/ROM, DVD±R/RW
- **Playable disc file format**  
ISO 9660 Level 1/2, Joliet, Romeo, Long file name.
- **Playable USB device**  
USB mass storage class, iPod with KCA-iP300V
- **Playable USB device file system**  
FAT16, FAT32

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

- **Playing order of the Audio file**

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



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



- In this manual, the word "USB device" is used for flash memories and digital audio players which have USB terminals.
- The word "iPod" appearing in this manual indicates the iPod connected with the KCA-iP300V (optional accessory).

## About Video files

- **Acceptable video files**  
MPEG1, MPEG2
- **Extensions**  
mpg, mpeg, m1v, m2v
- **Acceptable media**  
CD-R/RW/ROM, DVD±R/RW, VCD,

iPod with KCA-iP300V

Acceptable discs, disc formats, file and folder names and playing order are the same as those for audio files. Refer to <About Audio files>.

## About Picture files

- **Acceptable picture files**  
JPEG
- **Extensions**  
jpg, jpeg
- **Acceptable media**  
CD-R/RW/ROM, DVD±R/RW

Acceptable discs, disc formats, file and folder names and playing order are the same as those for audio files. Refer to <About Audio files>.

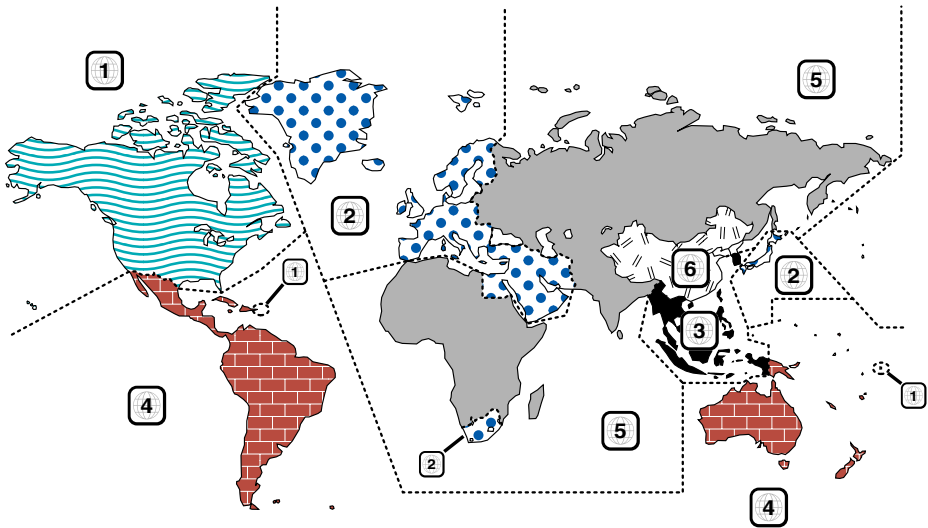
## About USB device

- If you start playback after connecting the iPod, the music that has been played by the iPod is played first.  
In this case, "RESUMING" is displayed without displaying a folder name, etc. Changing the browse item will display a correct title, etc.
- When the iPod is connected to this unit, "KENWOOD" or "✓" is displayed on the iPod to indicate that you cannot operate the iPod.
- When the USB device is connected to this unit, it can be charged up provided that this unit is powered.
- 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.
- Take backups of the audio files used with this unit. The files can be erased depending on the operating conditions of the USB device. We shall have no compensation for any damage arising out of erasure of the stored data.
- No USB device comes with this unit. You need to purchase a commercially available USB device.
- 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.



## Region codes in the world

The DVD players are given a region code according to the country or area it is marketed, as shown in the following map.



## DVD disc marks

Symbol	Description
	Indicates a region number. The discs with this mark can be played with any DVD player.
	Indicates the number of audio languages recorded. Up to 8 languages can be recorded in a movie. You can select a favorite language.
	Indicates the number of subtitled languages recorded. Up to 32 languages can be recorded.
	If a DVD disc has scenes shot from multiple angles, you can select a favorite angle.
	Indicates the type of screen for the image. The left mark indicates that a wide image picture (16:9) is displayed on a standard TV set screen (4:3) with a black band at both the top and bottom of the screen (letter box).

## Operation regulatory marks

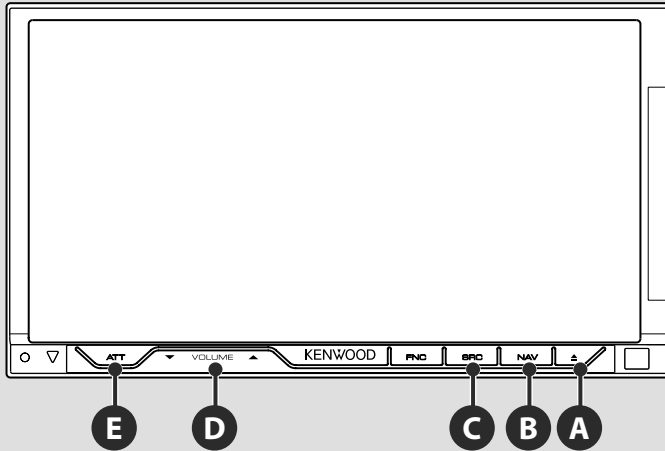
With this DVD, some functions of this unit such as the play function may be restricted depending on the location where the DVD is playing. In this case, the following marks will appear on the screen. For more information, refer to the disc manual.



## Discs with limited period of use

Do not leave discs with a limited period of use in this unit. If you load an already expired disc, you may not be able to remove it from this unit.

# Basic Operations



**C**

## Turns power ON/OFF

Press the button to turn on the power.  
When the button is pressed and held down for 1 second or more, the power is turned off.

**B**

## Switches to the Navigation system

Press the button to switch the display to the navigation system screen.

**D**

## Adjusts the volume

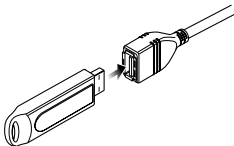
**E**

## Attenuates the volume

Press it to attenuate the volume.  
Press it again to cancel muting.


## Playing a USB device

When connecting a USB device, playback starts automatically.  
You must update the database if you are using a USB device that is different from the one you used before or if you have replaced the audio files in the USB device. For information on how to update the database, refer to <Function while displaying the Control Screen> in USB Device Control (page 36).



- If the USB source is selected when a USB device is not connected, "No Device" is displayed.
- When the playback is stopped and then restarted, the playback will start from the point where it was stopped at the last time. Even if the USB is removed and connected again, the playback will start from the last stopped point unless the contents in the USB device is changed.
- Make sure that the USB device is connected firmly.

## Removing the USB device

Press  on the USB control screen to enter the USB suspend mode, and then remove the USB device. Refer to <USB Device Control> (page 36).



- Removing the USB device before entering the USB suspend mode may result in damaging the data in the USB device.

## C

### Selecting a source

Press it to display the source select screen. Touch the source button to select the source.

#### Full Source Select screen



1 Scrolls the source display.



- The displayed source depends on the type of device connected. In addition, you cannot press the button of currently unavailable source.

The following buttons are always displayed on the source select screen and source control screen.

2 Clock display

3 Displays the Source Select screen.

The display switches between Favorite Source Select screen and Full Source Select screen by touching the button.

4 Displays Source Control screen.

5 Displays the Audio Control Menu screen. (page 82)

6 Displays the SETUP Menu screen. (page 60)

7 Displays the external device control screen. See <External Device Power Supply Control> (page 45).

8 Changes the screen skin each time it is pressed.

9 Displays the Hands Free screen. (page 49)

10 Adjust the volume.

11 Press for at least 2 seconds to erase the buttons. Touch the screen to redisplay the buttons.



- If a Bluetooth Unit is not connected, [TEL] will not appear.

12 Displays the full source screen.



- For how to register the frequently used source buttons to Favorite Source Select screen, see <Direct Source Button Setup> (page 67).

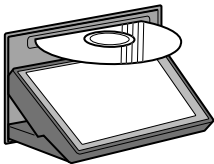


#### Favorite Source Select screen



## A

### Playing a disc




When you load a disc into disc loading slot, the disc starts playing. If a menu appears, when playing a video disc, select the desired item.

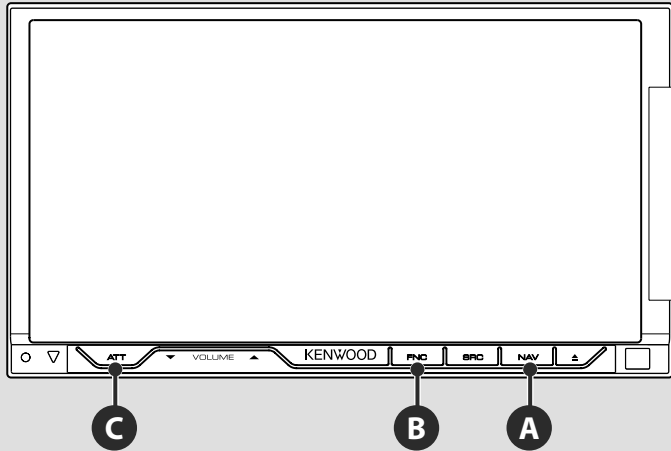


- See <List of playable discs> (page 7) for a list of supported discs and formats.

### Removing a disc

Press  (Eject) button.

## Basic Operations



**B**

### Switches to the Hands Free control

Press it for more than 1 second to the Hands Free control screen.

Press it again for more than 1 second to resume the normal display.  
(with the optional accessory Bluetooth unit connected only)

**C**

### Listening the traffic information

Press it for more than 1 second to turn the Traffic Information function On or Off. (page 30)

**A**

### Switches to the rear view

Press it for more than 1 second to switch to rear view.

Press it again for more than 1 second to resume the normal display.



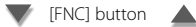
- Functions of the [NAV] button can be changed to Display Off function. See <System Setup> (page 64) for the function setting of the [NAV] button.

**B****Switching the function screen**

The function control screen switches in the following order each time you press the button.

Navigation screen

Picture or Video playback screen



Easy Control buttons appear.

Easy Control buttons appear.

**Navigation screen**

Easy Control button

**Picture or Video playback screen**

Easy Control button



- For the functions of Easy Control buttons, see <Control of other sources while displaying the navigation screen> (page 14).

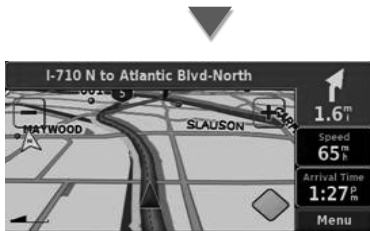
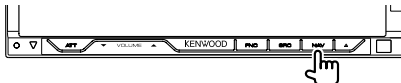
# Navigation Control

Sets and controls the navigation system function.

## Using the Navigation System

Displays the navigation system screen and makes the navigation function available.

### 1 Displaying the navigation screen



### 2 Setting the navigation system function

Touch the navigation system button displayed on the screen. See the included NAVIGATION SYSTEM's INSTRUCTION MANUAL for information on using the navigation system.

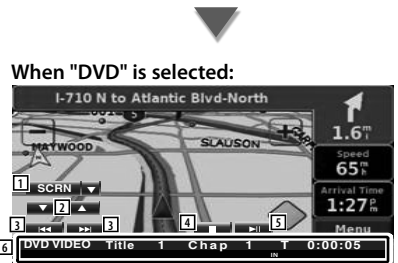
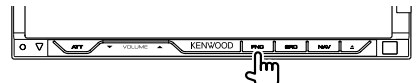


- You can set the navigation system function when nothing else is displayed on the screen. If anything else, such as Easy control panel is displayed, erase it first.

## Control of Other Sources While Displaying the Navigation Screen

Selected source can be controlled while displaying navigation screen.

### 1 Display the easy control buttons



### When "DVD" is selected:

- ▼: changes between [SCRN], [TEL], and [EXT SW] button each time this is pressed.  
SCRN: Displays the Screen Control screen. See <Screen Control> (page 48).  
TEL: Displays the Hands Free screen. (page 49)  
EXT SW: Displays the external device control screen. See <External Device Power Supply Control> (page 45).
- Adjust the volume.
- During DVD play :  
Selects a chapter.  
During VCD play :  
Selects a scene (when PBC is On) or a track (when PBC is Off).  
During CD play :  
Selects music.  
During Audio file, Video file, or Picture file play :  
Selects a file.
- Stops playing.  
When pressed twice, the disc is played from its beginning when you play it in the next

time. (DVD play only)

- 5 Plays or pauses.
- 6 When touched this area, the source control screen appears.

#### When "USB" or "iPod" is selected:



- 7 During iPod play :  
Searches Music or Video.  
During USB play :  
Selects a file.
- 8 Plays or pauses.
- 9 When touched this area, the source control screen appears.

#### When "TUNER" is selected:



- 10 Tunes in a station.
- 11 Switches the band (to AM or FM 1/2/3).
- 12 When touched this area, the source control screen appears.

#### When "TV" is selected:



- 13 Selects a channel.  
Use the <Seek Mode> (page 40) to change the channel tuning sequence.
- 14 Switches to TV1 or TV2.\*1
- 15 Switches the Seek mode.\*1
- 16 When touched this area, the source control screen appears.

#### When "Bluetooth" is selected:



- 17 Selects a file.
- 18 Plays.
- 19 Pauses.
- 20 When touched this area, the source control screen appears.



- The Easy Control buttons are hidden when you touch the central part of the screen.
- \*1)Not available for the optional digital TV tuner KTC-D500E.

# Watching DVD/VCD

You can play DVD/VCD using various functions.

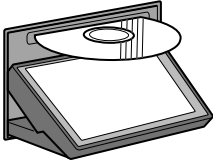


- For the basic method of how to watch DVD/VCD, refer to <Basic Operations> (page 10).
- Set the remote controller mode switch to "DVD" mode before starting operation, refer to <Remote Controller mode switch> (page 86).

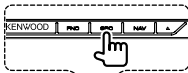
## Functions During the Playback Screen

Basic functions are available even when the playback screen is displayed.

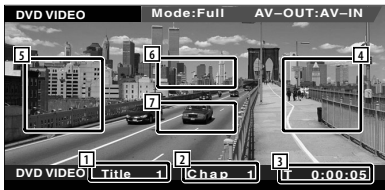
### 1 Display the playback screen



or



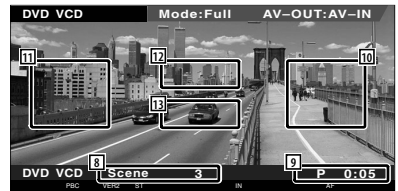
### DVD playback screen



- 1 Title Number Display
- 2 Chapter Number Display
- 3 Play Time Display
- 4 Forward Chapter Search Area  
Selects the next chapter.
- 5 Backward Chapter Search Area  
Selects the previous chapter.

- 6 DVD Disc Menu Control Buttons Area  
Displays the Disc Menu Control buttons (page 18).  
The Highlight Control screen appears when pressed while the DVD Top menu is displayed.
- 7 Information Display Button Area

### VCD playback screen



- 8 Scene/Track Number Display
- 9 Play time Display
- 10 Forward Scene/Track Search Area  
Selects the next scene (when PBC is On) or track (when PBC is Off).
- 11 Backward Scene/Track Search Area  
Selects the previous scene (when PBC is On) or track (when PBC is Off).
- 12 Zoom Control Button Area  
Displays the Zoom Control buttons (page 20).
- 13 Information Display Button Area



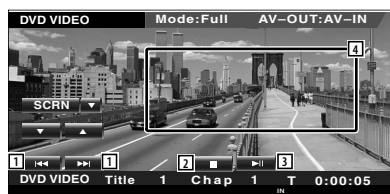
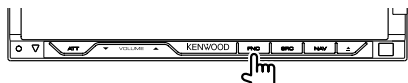
- The information display is cleared automatically after approximately 5 seconds. Also, the information can be displayed automatically when it is updated.



## Functions When Displaying the Easy Control Panel

Displays the basic operation buttons on the screen.

- 1 While the source is playing, press the [FNC] button



- 1 Chapter Search (during DVD play)  
Searches for a chapter.  
Scene/Track Search (during VCD play)  
Selects a scene (when PBC is On) or a track (when PBC is Off).
- 2 Stops playing.  
When pressed twice, the disc is played from its beginning when you play it in the next time.
- 3 Plays or pauses.
- 4 Switches to the playback screen.

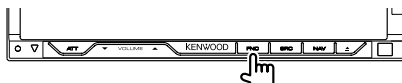


- When the navigation screen is displayed, press the [NAV] button to switch to the source playback screen.
- The Easy Control Panel is hidden when you touch a central part of the monitor.

## Functions While Displaying the Control Screen

Switches to the source control screen to use various playback functions.

- 1 While the source is playing, press the [FNC] button



### When playing a DVD



### When playing a VCD



- 1 Switches to the playback screen.
- 2 Title Number Display (during DVD play)
- 3 Chapter/Scene/Track Number Display
- 4 Play Mode Display
- 5 Play Time Display

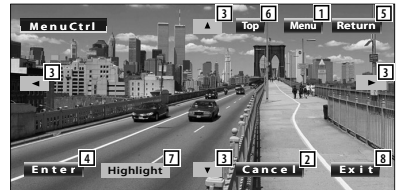
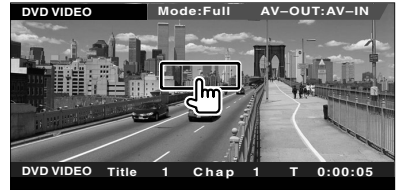
Next page ►

- 6 Volume Label Display  
When **\*\*\*** is appeared, the text display is scrolled by pressing it.
- 7 Fast Forwards or Fast Backwards.
- 8 Stops playing.  
When pressed twice, the disc is played from its beginning when you play it in the next time.
- 9 Selects a chapter, a scene or a track.  
When the DVD-VIDEO/VCD is paused, touch this button to start single-frame stepping.
- 10 Plays or pauses.
- 11 Ejects the disc from the built-in disc player.
- 12 Slow Forwards or Backwards. (during DVD play)
- 13 Switches the button display.
- 14 Switches the Repeat Play operations in the following sequence.  
DVD: Title Repeat, Chapter Repeat, Repeat Off  
VCD: Track Repeat, Repeat Off (Available when the PBC is off)
- 15 Displays the Hands Free screen. (page 49)
- 16 Switches the play time display in the following sequence.  
DVD: Chapter, Title, remaining titles  
VCD: Track, disc, remaining discs (Effective only when the PBC function is off)
- 17 Function Indicator
- 18 Appears when a disc is inserted.
- 19 Sound indicator
- 20 Turns the PBC function of VCD On or Off. (only when VCD Ver 2.0 is in use)
- 21 Appears when PBC is On.
- 22 VCD version indicator
- 23 Displays the external device control screen. See <External Device Power Supply Control> (page 45).

## DVD Disc Menu

Selects an option from the DVD Disc Menu.

### 1 Display the Disc Menu Control screen



- 1 Calls the Menu.
- 2 Returns to the Disc Menu screen.
- 3 Selects a menu option.
- 4 Enters your menu selection.
- 5 Returns to the previous menu screen.
- 6 Displays the Top Menu.
- 7 Highlight Control.
- 8 Clears the Disc Menu Control.

## Highlight Control

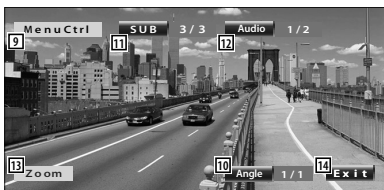
You can select a chapter and title for the DVD Menu screen. When you touch the screen, you can select the DVD menu.



- To cancel Highlight Control, press [FNC] button.
- The operation ends automatically if you do not operate within 10 seconds.

## 2 Select Disc Menu options

### Disc Menu

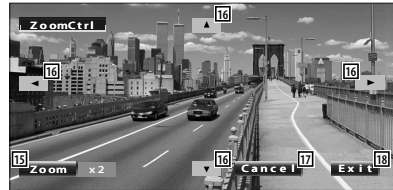


- 9 Calls the Menu Control.
- 10 Switches the picture angle.

(during program playback only)

- 11 Switches the subtitle language. (during program playback only)
- 12 Switches the voice language. (during program playback only)
- 13 Displays the Zoom Control screen.
- 14 Clears the Disc Menu Control.

## Zoom Control

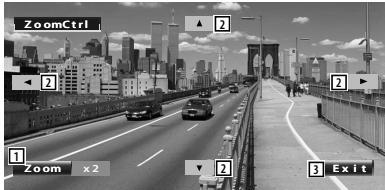
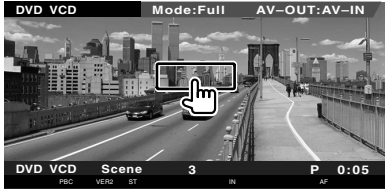


- 15 Changes the zoom ratio at 4 levels (2 times, 3 times, 4 times, or off) each time you touch.
- 16 Scrolls the screen in the direction you touch.
- 17 Returns to the Disc Menu screen.
- 18 Clears the Disc Menu Control.

### VCD Zoom Control

Displays an enlarged VCD screen.

#### 1 Display the Zoom Control screen



- 1 Changes the zoom ratio at 2 levels (2 times or off) each time you touch.
- 2 Scrolls the screen in the direction you touch.
- 3 Clears the Zoom Control button.

# Music Disc & Audio File Listening

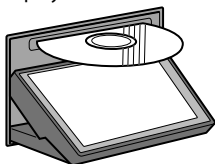
You can recall various control screens during CD/Audio file playback.



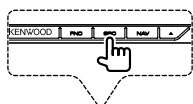
- For the basic method of how to play a music disc/audio file, refer to <Basic Operations> (page 10).
- Refer to <List of playable discs> (page 7) for playable discs.
- Refer to <About Audio file> (page 8) for playable files.

## Functions While Displaying the Control Screen

Switches to the source control screen to use various playback functions.



or



### During CD playback



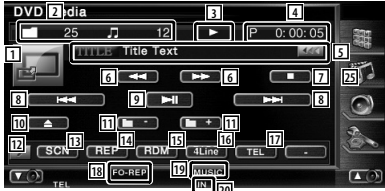
- 1 Track (Music) Number Display
- 2 Play Mode Display
- 3 Play Time Display
- 4 Music information display

Selects the Disc Name (See <Set Disc Name>, page 23), Disc Text or Track Text. When **\*\*\*** is appeared, the text display is scrolled by pressing it.

- 5 Fast Forwards or Fast Backwards.
- 6 Stops playing the built-in disc player. When pressed twice, the disc is played from its beginning when you play it in the next time.
- 7 Selects a track.
- 8 Plays or pauses.
- 9 Ejects the disc from the built-in disc player.
- 10 Starts or stops Scan Play (that plays the beginning of each music one after the other).
- 11 Repeats to play (the present track).
- 12 Starts or stops Random Play (to play music in random order).
- 13 Switches the number of lines displayed in the Information Display.
- 14 Displays the Hands Free screen. (page 49)
- 15 Switches the play time display between Track, Disc, and Disc Remaining Time.
- 16 Function Indicator
- 17 Appears when a disc is inserted.
- 18 Sets a name to the disc being played. See <Set Disc Name> (page 23).
- 19 Displays the external device control screen. See <External Device Power Supply Control> (page 45).

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During Audio file playback



- 1 Switches to the playback screen. If there is no playback screen, wallpaper is displayed.
- 2 Folder and File Number Display
- 3 Play Mode Display
- 4 Play Time Display
- 5 Music information display  
Selects Folder Name, File Name, Title, Artist Name, or Album Name.  
When **\*\*\*** is appeared, the text display is scrolled by pressing it.
- 6 Fast Forwards or Fast Backwards.  
(Disabled when a JPEG is being played.)
- 7 Stops playing.  
When pressed twice, the disc is played back from its beginning in the next time.
- 8 Selects a file.
- 9 Plays or pauses.
- 10 Ejects a disc.
- 11 Selects a folder.
- 12 Switches the button display.
- 13 Starts or stops Scan Play (that plays the beginning of each music or data one after the other).
- 14 Repeats to play (the preset files or data).
- 15 Starts or stops Random Play (to play files of the present folder in random order).
- 16 Switches the number of lines displayed in the Information Display.
- 17 Displays the Hands Free screen. (page 49)
- 18 Function Indicator
- 19 MUSIC, MOVIE or PICTURE indicator

- 20 Appears when a disc is inserted.
- 21 Repeats to play the music or data of the present folder.
- 22 You can search for folders and Audio files through a hierarchy.
- 23 Displays music information (such as Tag and content property) of Audio file being played.
- 24 Displays the external device control screen. See <External Device Power Supply Control> (page 45).

## Set Disc Name

Assigns a name to a CD.

### 1 Play a CD you wish to name

### 2 Start Name set



### 3 Enter the name

See <Character Entry> (page 47) for information on how to enter a name.

### 4 End Name set



## Folder Select (Function of Audio File)

Searches folders and Audio files stored in media and devices according to hierarchy.

### 1 Start Folder Select



### 2 Selects a song



- 1 Scrolls the list.
- 2 Lists folders and Audio files  
Folder opens when touched, and the Audio file is played.  
When **\*\*\*** is appeared, the text display is scrolled by pressing it.
- 3 Moves to the top hierarchy level.
- 4 Moves up a hierarchy level.
- 5 Opens the selected folder.
- 6 Returns to the original screen.

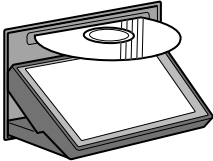
# Video File/Picture Watching

You can recall various control screens during playback of video file (MPEG 1 and MPEG 2 file) and picture file (JPEG file).

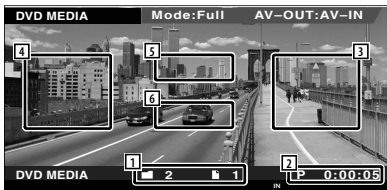
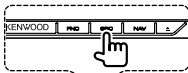
## Function During Playback Screen

Basic functions are available even when the playback screen is displayed.

### 1 Display the playback screen



or



- 1 Folder/File Number Display
- 2 Play Time Display
- 3 Forward File Search Area  
Selects the next file.
- 4 Backward File Search Area  
Selects the previous file.
- 5 JPEG: Picture Control Button Area (page 26)  
MPEG: Not effective
- 6 Information Display Button Area

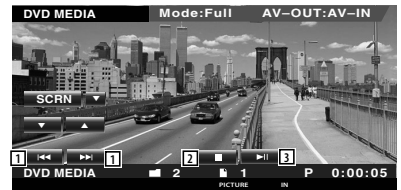
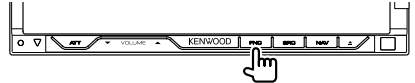


- The information display is cleared automatically after approximately 5 seconds. Also, the information can be displayed automatically when it is updated.

## Functions When Displaying the Easy Control Panel

Displays the basic operation buttons on the screen.

### 1 While the source is playing, press the [FNC] button



- 1 Selects a file.
- 2 Stops playing.
- 3 Plays or pauses.



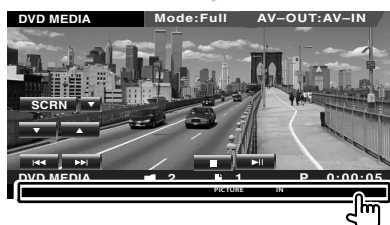
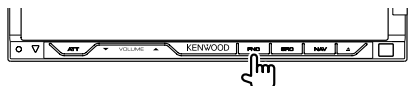
- When the navigation screen is displayed, press the [NAV] button to switch to the source playback screen.
- The Easy Control Panel is hidden when you touch a central part of the monitor.



## Functions While Displaying the Control Screen

Switches to the source control screen to use various playback functions.

### 1 While the source is playing, press the [FNC] button



- 1 Switches to the playback screen.
- 2 Folder and File Number Display
- 3 Play Mode Display
- 4 Play Time Display
- 5 Video/Picture information display  
Selects Folder Name, File Name, Title, Artist Name, or Album Name.

- When **\*\*\*** is appeared, the text display is scrolled by pressing it.
- 6 Fast Forwards or Fast Backwards.  
(Disabled when a JPEG is being played.)
- 7 Stops playing.  
When pressed twice, the disc is played back from its beginning in the next time.
- 8 Selects a file.
- 9 Plays or pauses.
- 10 Ejects a disc.
- 11 Selects a folder.
- 12 Switches the button display.
- 13 Starts or stops Scan Play (that plays the beginning of each song or data one after the other).
- 14 Repeats to play (the preset files or data).
- 15 Starts or stops Random Play (to play files of the present folder in random order).
- 16 Switches the number of lines displayed in the Information Display.
- 17 Displays the Hands Free screen. (page 49)
- 18 Function Indicator
- 19 PICTURE or MUSIC indicator
- 20 Appears when a disc is inserted.
- 21 Repeats to play the file of the present folder.
- 22 You can search for folders and files through a hierarchy.
- 23 Displays information of file being played.
- 24 Displays the external device control screen. See <External Device Power Supply Control> (page 45).

## Picture Control

Adjusting the video display.

### 1 Start Picture Control



### 2 Adjust the video display



- 1 Reverses the picture horizontally.
- 2 Rotates counter clockwise.
- 3 Rotates clockwise.
- 4 Ends Picture Control.

## Folder Select

Searches folders and Video files/Pictures stored in media and devices according to hierarchy.

### 1 Start Folder Select



### 2 Selects a file



- 1 Lists folders and Video files/Picture files. Folder opens when touched, and the Video/Picture file is played. When **\*\*\*** is appeared, the text display is scrolled by pressing it.
- 2 Scrolls the list.
- 3 Moves to the top hierarchy level.
- 4 Moves up a hierarchy level.
- 5 Opens the selected folder.
- 6 Returns to the original screen.

# Radio Listening

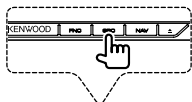
Various control screens appear in the Tuner Source mode.



- For the basic method of receiver button operations, refer to <Basic Operations> (page 10).
- Set the remote controller mode switch to "AUD" mode before starting operation, refer to <Remote Controller mode switch> (page 86).

## Functions While Displaying the Control Screen

Switches to the source control screen to use various functions.



- 1 Band display
- 2 Preset number
- 3 Frequency display
- 4 Radio station information display.  
Selects the Program Service Name, Title & Artist name, Category Name 1/2, or Radio

Text.

- 5 Turns the Traffic Information function On or Off.  
See <Traffic Information>, (page 30).
- 6 Switches to the FM1/2/3 band.
- 7 Switches to the AM band.
- 8 Tunes in a station.  
Use the <Seek Mode> (page 28) to change the frequency switching.
- 9 Switches the button display.
- 10 Select the Monaural reception. (Only when receiving the FM broadcast)
- 11 Selects the Auto Memory mode.  
(Refer to page 28 for the <Auto Memory>)
- 12 Switches the Seek mode.  
(Refer to page 28 for the <Seek Mode>)
- 13 Switches the number of lines displayed in the Information Display.
- 14 Displays the Hands Free screen. (page 49)
- 15 Turns the Local Seek function ON or Off.
- 16 When **P1** to **P6** buttons appear, you can recall the stations on memory.  
For memory of broadcasting stations, refer to <Auto Memory> (page 28) or <Manual Memory> (page 29).
- 17 Searches station by program type. See <Search for Program Type> (page 31).
- 18 Lists and selects memorized station. See <Preset Select> (page 29).
- 19 Displays Radio Text screen. See <Radio Text> (page 30).
- 20 Displays the external device control screen. See <External Device Power Supply Control> (page 45).

### Seek Mode

Sets a station selection.



The mode is switched in following order each time you touch the button.

Display	Setting
"AUTO1"	Tunes in a station with good reception automatically.
"AUTO2"	Tunes in stations in memory one after another.
"MANU"	Switches to the next frequency manually.

### Auto Memory

Stores stations with good reception in memory automatically.

#### 1 Select a band you wish to store in memory



#### 2 Select the Auto Memory mode



#### 3 Start Auto Memory



Touch  or .

Auto Memory terminates when 6 stations are stored or when all stations are tuned in.



- The operation ends automatically if you do not operate within 10 seconds.

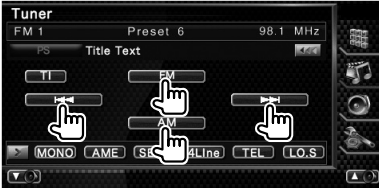


: Press for # seconds.

## Manual Memory

Stores the current receiving station in memory.

### 1 Select a station you wish to store in memory



### 2 Store in memory



Continue to touch until the memory number appears.

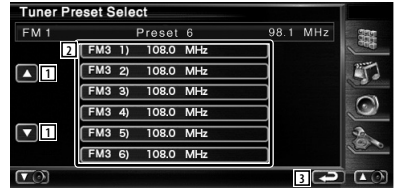
## Preset Select

Lists and selects memorized station.

### 1 Start Preset Select



### 2 Selects a station



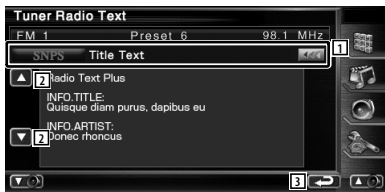
- 1 Scrolls the list.
- 2 Memorized stations are displayed. Touch to tune in.
- 3 Returns to the original screen.

## Radio Text

You can display the radio text. (Only when receiving the FM broadcast)

### 1 Select a station

### 2 Display the radio text



- 1 Selects the Program Service Name, Title & Artist name, Station Name, Radio Text Plus, or Radio Text for text display. When **1** is appeared, the text display is scrolled by pressing it.
- 2 Scrolls the text display.
- 3 Returns to the original screen.

## Traffic Information

When a traffic bulletin starts, any source is switched to the traffic information and it is displayed automatically.

### 1 Set the Traffic information mode



### When the traffic bulletin starts...

The Traffic Information screen appears automatically.

### Traffic Information screen



- It is necessary to have Traffic Information function set to On in order to have the Traffic Information screen appear automatically.
- During reception of traffic information the adjusted volume is automatically remembered, and the next time it switches to traffic information it's automatically the remembered volume.

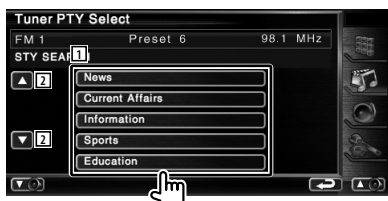
## Search for Program Type

A program is tuned when you set its program type. (Only when receiving the FM broadcast)

### 1 Enter Program Type mode

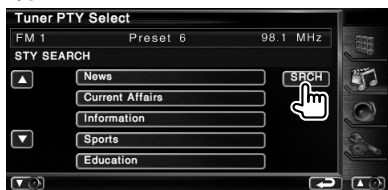


### 2 Select a Program Type



- 1 Program Type is displayed. Touch to select a Program Type.
- 2 Scrolls the Program Type list.

### 3 Search a station of the selected Program Type

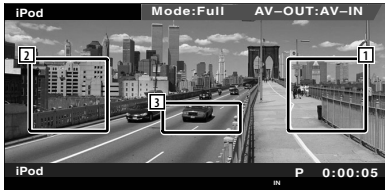
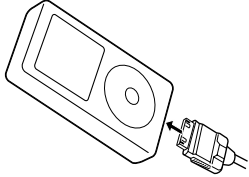


# iPod Control

You can control and listen to songs in your iPod by connecting an iPod to this unit with KCA-iP300V (optional accessory). You can also display video contents on this unit when connecting an iPod with video.

## Connecting an iPod

Connect an iPod to this unit.



- 1 Forward music/video search area  
Selects the next music/video.
- 2 Backward music/video search area  
Selects the previous music/video.
- 3 Information display button area  
The information is displayed for 5 seconds.

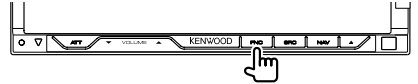


- Remove all accessories such as headphone before connecting an iPod. You may not be able to control the iPod if you connect it with accessories attached.
- When you connect an iPod to this unit, playback starts from the song you were playing on the iPod itself (Resume Function).
- If the played song is not a video content, "No iPod Video Signal" is displayed on the video screen.
- While connecting an iPod, "KENWOOD" appears on the iPod and the iPod's control is disabled.

## Functions when Displaying the Easy Control Panel

Displays the basic operation buttons on the screen.

- 1 While the source is playing, press the [FNC] button



- 1 Music/Video Search.
- 2 Plays or pauses.



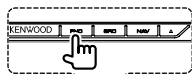
- When the navigation screen is displayed, press the [NAV] button to switch to the source playback screen.
- The Easy Control Panel is hidden when you touch a central part of the monitor.



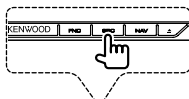
## Functions while Displaying the Control Screen

Switches to the source control screen to use various playback functions.

When Video or picture is playing, press the [FNC] button.



or



- 1 Image picture  
Switches to the playback screen. If there is no playback screen, wallpaper is displayed.
- 2 Total number of music in the iPod and the music number display
- 3 Play Mode Display
- 4 Play Time Display
- 5 Music/Video Information Display  
Selects the Title, Artist Name, Album Name or iPod Name.  
When **TEL** is appeared, the text display is scrolled by pressing it.
- 6 Fast Forwards or Fast Backwards.
- 7 Selects Music/Video.
- 8 Plays or pauses.
- 9 Switches the button display.
- 10 Starts or stops Scan Play (that plays the beginning of each music or video one after the other).
- 11 Repeats to play (the preset files or data).
- 12 Starts or stops Random play.\*
- 13 Displays the Hands Free screen. (page 49)
- 14 MUSIC or VIDEO indicator
- 15 Starts or stops Album Random Play (plays randomly from current album).\*
- 16 Displays the external device control screen. See <External Device Power Supply Control> (page 45).
- 17 Displays the list of music category. See <iPod List> (page 34).
- 18 Displays the list of video category. See <iPod List> (page 34).
- 19 Displays the previous music/video list screen. See <iPod List> (page 34).
- 20 Displays information screen of music/video being played.



\* Disabled when VIDEO is being played.

## iPod List

Lists and searches music/video contained in the iPod.

### 1 Display the iPod List



### 2 Select music/video



- 1 Switches list page.
- 2 Categories and music are listed.  
Touch a category name to move its lower level. If music title is displayed, the music is played by touching it.  
When **\*\*\*** is appeared, the text display is scrolled by pressing it.
- 3 All the music in its category is played.
- 4 Returns to previous category.
- 5 Moves to the top category.
- 6 Displays the currently playing category.



# USB Device Control

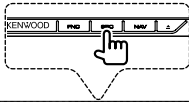
You can control and listen to songs in your USB device by simply connecting it to the USB connector of this unit.



- For the connection of a USB device, refer to <Basic Operations> (page 10).

## Functions while displaying the Control Screen

Switches to the source control screen to use various playback functions.



- 1 Track (Music) Number Display
- 2 Play Mode Display
- 3 Play Time Display
- 4 Music information display  
Selects the Folder Name, File Name, Title, Artist Name, or Album Name.  
When **---** is appeared, the text display is scrolled by pressing it.

- 5 Removes the USB device.  
When "No Device" is shown, the USB device can be removed safely.  
If you wish to play it again while the USB device is connected, press it again.
- 6 Selects a folder. (Only in Folder Select Mode)\*
- 7 Selects a file.
- 8 Plays or pauses.
- 9 Switches the button display.
- 10 Starts or stops Scan Play (that plays the beginning of each music one after the other).
- 11 Repeats to play (the present music).
- 12 Starts or stops Random Play (to play music in random order).
- 13 Displays the Hands Free screen. (page 49)
- 14 Repeats to play the music or data of the present folder. (Only in Folder Select Mode)
- 15 Updates the audio file database in the USB device.
- 16 Displays the folder list. Refer to <Folder Select> (page 37).
- 17 Displays the list of category. Refer to <USB List> (page 37).
- 18 Displays information screen of music being played.
- 19 Displays the external device control screen. See <External Device Power Supply Control> (page 45).



\* Disabled during play list mode.

## USB List

Lists and searches music contained in the USB device.

### 1 Display the Category List



### 2 Select a category



When **CUR** is appeared, the text display is scrolled by pressing it.

- 1 Displays the currently playing category.
- 2 Returns to the original screen.

### 3 Select music



- 3 Switches to the lower level of the category.  
When **CUR** is appeared, the text display is scrolled by pressing it.
- 4 Scrolls the list.
- 5 Lists all the music in the selected category.
- 6 Moves to the upper level of the category.
- 7 Moves to the top category.
- 8 Displays the currently playing category.  
(Only in Category Mode)
- 9 Returns to the original screen.

## Folder Select

Searches folders and Audio files stored in the USB device according to hierarchy.

### 1 Start Folder Select



### 2 Select music



- 1 Lists folders and Audio files  
Folder opens when touched, and the Audio file is played.
- 2 Scrolls the list.
- 3 Moves to the top hierarchy level.
- 4 Moves up a hierarchy level.
- 5 Displays the currently playing file.

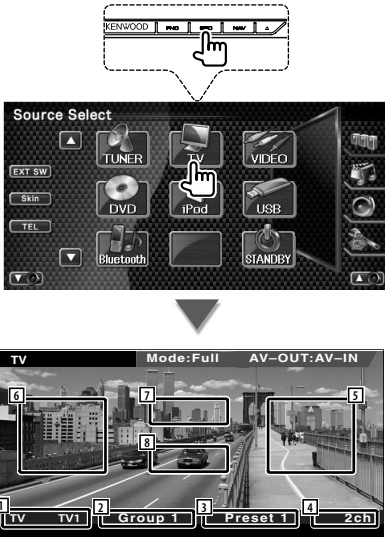
# TV Watching

Various control screens appear in the TV source mode. You can only operate TV with the optional accessory TV Tuner connected.

## Function During TV Screen

Basic functions are available even when the TV screen is displayed.

### 1 Display the TV screen



- 1 TV Band Number Display
- 2 TV Area Group Display. See <TV Setup> (page 73).
- 3 Memory Number Display
- 4 Channel Number Display
- 5 Channel Up Area  
Increases the channel.
- 6 Channel Down Area  
Decreases the channel.
- 7 Band Switch Area  
Switches to TV1 or TV2.
- 8 Information Display Button Area

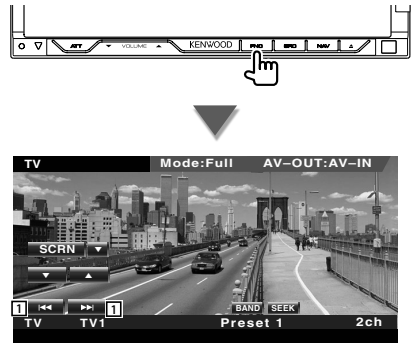


- The information display is cleared automatically after approximately 5 seconds. Also, the information can be displayed automatically when it is updated.

## Functions When Displaying the Easy Control Panel

Displays the basic operation buttons on the screen.

### 1 While the source is playing, press the [FNC] button



- 1 Selects a channel.  
Use the <Seek Mode> (page 40) to change the channel tuning sequence.

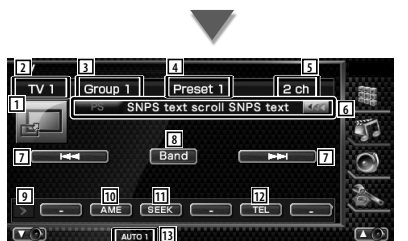
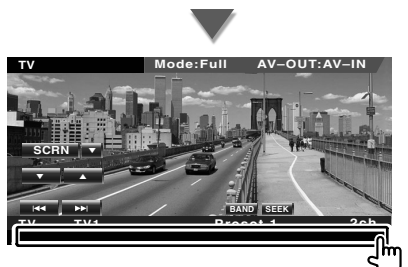
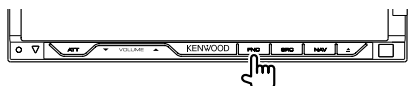


- When the navigation screen is displayed, press the [NAV] button to switch to the source playback screen.
- The Easy Control Panel is hidden when you touch a central part of the monitor.

## Functions While Displaying the Control Screen

Switches to source control screen to use various functions.

- 1 While the source is playing, press the [FNC] button



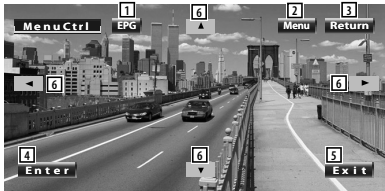
- 1 Switches to the TV screen.
- 2 Band display
- 3 TV Area Group Display  
See <TV Setup> (page 73).
- 4 Memory Number Display
- 5 Channel display
- 6 Channel information display
- 7 Select a channel.

Use the <Seek Mode> (page 40) to change the channel tuning sequence.

- 8 Switches to TV1 or TV2.
- 9 Switches the button display.
- 10 Selects the Auto Memory mode.  
See <Auto Memory> (page 41).
- 11 Switches the Seek mode.  
See <Seek Mode> (page 40).
- 12 Displays the Hands Free screen. (page 49)
- 13 Indicates current Seek mode.
- 14 When **P1** to **P6** buttons, you can recall channels on memory.  
For memory of broadcasting stations, see <Auto Memory> (page 41) or <Manual Memory> (page 41).
- 15 Sets a name to the tuned station. (page 42)
- 16 Lists and selects memorized station.
- 17 Displays the external device control screen. See <External Device Power Supply Control> (page 45).

**TV Menu (with KTC-D500E (optional accessory) connected only)**

Menu Control screen appears by touching the area shown below.



- 1 Shows EPG (Electric Program Guide) screen.
- 2 Shows Digital TV Broadcasting menu screen.
- 3 Returns to the previous screen.
- 4 Executes selected menu item.
- 5 Returns to Digital TV screen.
- 6 Moves highlight in Digital TV Broadcasting menu.

**Seek Mode**

Sets a station selection.



The mode is switched in following order each time you touch the button.

Display	Setting
"AUTO1"	Tunes in a station with good reception automatically.
"AUTO2"	Tunes in stations in memory one after another.
"MANU"	Switches to the next frequency manually.



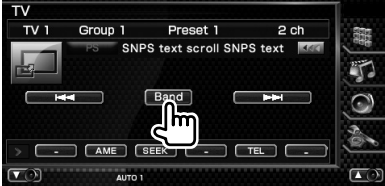


: Press for # seconds.

## Auto Memory

Stores stations with good reception in memory automatically.

### 1 Select a band you wish to store in memory



### 2 Select the Auto Memory mode



### 3 Start Auto Memory



Auto Memory terminates when 6 stations are stored or when all stations are tuned in.

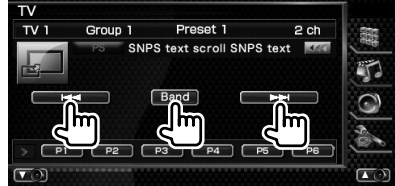


- The operation ends automatically if you do not operate within 10 seconds.

## Manual Memory

Stores the current receiving channel in memory.

### 1 Select a station you wish to store in memory



### 2 Store in memory



Continue to touch until the memory number appears.

## Preset Select

Lists and selects memorized station.

### 1 Start Preset Select



### 2 Selects a station



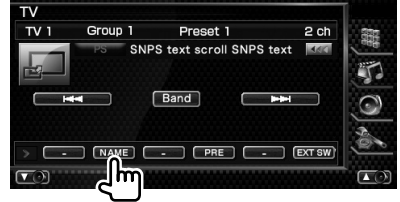
- 1 Memorized stations are displayed. Touch to tune in.

## Set Station Name

Assigns a name to a station.

### 1 Select a station you wish to name

### 2 Start Name set



### 3 Enter the name

See <Character Entry> (page 47) for information on how to enter a name.

### 4 End Name set





# Bluetooth Audio Control

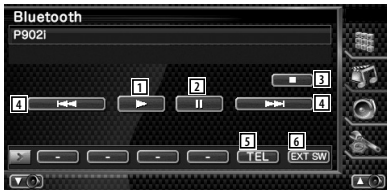
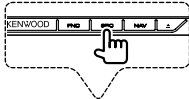
When KCA-BT200 (optional accessory) is connected, you can listen to audio files stored in Bluetooth audio player and cell-phone.



- You need to register your audio player to your Bluetooth Unit beforehand. Make sure to read the instruction manual of the Bluetooth Unit as well.

## Functions While Displaying the Control Screen

Switches to control screen to use various functions.



- 1 Plays.
- 2 Pauses.
- 3 Stops playing.
- 4 Selects a file.
- 5 Displays the Hands Free screen. (page 49)
- 6 Displays the external device control screen. See <External Device Power Supply Control> (page 45).



- If the Bluetooth Audio player does not support AVRCP profile, buttons 1 to 4 are not displayed. Operate from the Audio player.

# External Device Power Supply Control

Controlling the external device power supply.

## External Device Power Supply Control

Controlling the external device power supply.

### 1 Displays the EXT SW Control screen



[EXT SW] appears when the control screen of each source or Easy control panel is displayed.

### 2 Controls the external device power supply



- 1 You can turn on or off the external device power supply.
- 2 Returns to the original screen.



- You must connect a commercially available relay unit in order to use this function.  
Connect the external device to be controlled to that relay unit.
- Refer to <EXT SW Setup> (page 80) for information on setting the power on or off specification.

# Muting Audio Volume upon Reception of Phone call

When the telephone is called, the system is paused automatically.

## Muting Audio Volume upon Reception of Phone Call

### When the telephone is called...

The Phone Call ("CALL") screen appears, and system is paused.

### Phone Call ("CALL") screen



### When the call ends...

#### Hang up the phone.

The system resumes playing automatically.



- To use the TEL Mute feature, you need to hook up the MUTE wire to your telephone using a commercial telephone accessory. Refer to <INSTALLATION MANUAL>.

# Character Entry

When you select the Set Station Name mode or others, the following screen appears for character entry.

## How To Use the Character Entry Screen

### Character Entry screen



- 1 Shifts the cursor.
- 2 Enters characters.
- 3 Scrolls up or down the character button display.
- 4 Sets the key layout of the character buttons.  
abc : Alphabetical key layout.  
qwe : Qwerty key layout.
- 5 Enters a space.  
If you erase a character, locate the cursor on it and touch this button.
- 6 Clears the character.
- 7 Exits the Character Entry mode and returns to the previous screen.



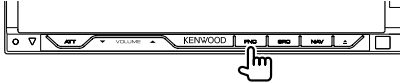
- You can enter characters only after you have applied the parking brake.

# Screen Control

Setting the monitor screen.

## Screen Control

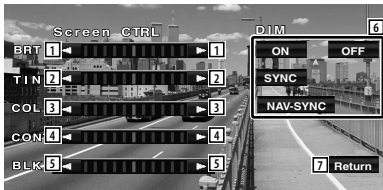
### 1 Display Easy Control panel



### 2 Display the Screen Control screen



### 3 Adjust the picture quality



1 Brightness Control

2 Tint Control

Displayed for an NTSC system image on Video, iPod, USB or Rear View Camera.

3 Color Control

Displayed on Video, iPod, USB or Rear View Camera screen only.

4 Contrast Control

5 Black Level Adjustment

6 Dimmer Mode Setup

"ON": The display dims.

"OFF": The display doesn't dim.

"SYNC": Turning the Dimmer function

On or Off when the vehicle light control switch is turned On or Off.

"NAV-SYNC":

Turning the Dimmer function On or Off according to the Navigation

Day/Night display setting.

7 Returns to the previous screen.



- The Screen Control screen is displayed only when you have applied the parking brake.
- The picture quality can be set for each source.
- You can set image quality of screens such as menu from <Monitor Setup> (page 70) of the <Setup Menu>.



# Hands Free Unit Control

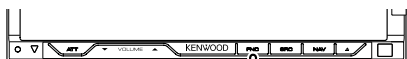
Various functions can be used in the Hands Free control mode. (with the optional accessory Bluetooth unit connected only)

- You need to register your cell-phone to your Bluetooth Unit beforehand. Make sure to read the instruction manual of the Bluetooth Unit as well.
- To use the Phone Book, it must have been downloaded from the cell-phone. For more details, see the instruction manual of your Bluetooth Unit and your cell-phone.

## Control Screen Function

Displaying the control screen and using various functions.

### 1 Display the Hands Free Control screen



Press the [FNC] button for more than 1 second.

or



- Displays the various conditions.
  - SMS** : Displays short message status. If a cell-phone which supports SMS function is not connected, this mark does not appear.
  - SMS** : There is unread short message.
  - SMS** : There is no unread short message.
  - DL** : Downloading Phonebook.
  - HOLD** : Indicates there is a call on hold.
  - Yd** : Displays the signal strength.\*

The more the number of bar segments, the stronger the signal.

**AUTO** : Displays the present Auto Answering status

**AUTO** : When Auto Answering is on

**AUTO** : When Auto Answering is off

**BATT** : Displays the battery drain of the cell-phone.\*

The more the number of bar segments, the higher the battery level.

- Displays the called phone numbers. If you have registered a phone number in the Phonebook, the destination person name is displayed.
- Calls the displayed preset phone number.
- Displays the SMS Select screen. See <SMS (Short Message Service)> (page 59).
- Displays the Search for Phonebook screen. See <Calling by Phonebook> (page 52).
- Displays the Outgoing Calls screen. See <Making a Call Using Outgoing/Incoming Call Records> (page 53).
- Displays the Incoming Calls screen. See <Making a Call Using Outgoing/Incoming Call Records> (page 53).
- Calls the preset phone number. For information on how to preset a phone number, see <Phone Number Preset> (page 58).
- Displays the Hands Free Set Up screen. See <Setting Up the Hands Free Phone> (page 55).
- Displays the Dialing Display screen. See <Calling by Entering a Phone Number> (page 50).
- Starts voice recognition. See <Calling by Voice Recognition> (page 54).
- Returns to the previous screen.

Next page ►

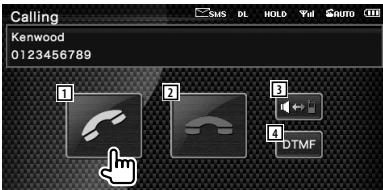


- While your car is moving, some functions are disabled for safety's sake. The buttons associated with the disabled functions become ineffective if pressed.
- When the Hands Free Control screen appears, the name of the connected cell-phone is displayed for 5 seconds.
- \* Since the number of steps of the control unit is different from that of the cell-phone, the statuses displayed on the control unit may discord from those displayed on the cell-phone. No status is displayed if information about it cannot be obtained.
- Setting the cell-phone in the private mode can disable the hands free function.

## When Received a Call

When you receive a call, you can use the hands free phone.

### 1 Respond to a call



When a call arrives, the Talking screen appears automatically.

- 1 Starts conversation with a person called.  
Switches the call destination if you hear a tone of call-waiting.  
Resumes conversation with the person on hold after completed conversation with the other party.
- 2 Disconnects the phone.
- 3 Switches the voice output between phone and speaker.
- 4 Outputs dial tone.  
See <Controlling Tone-based Services> (page 51).

## Calling by Entering a Phone Number

Make a call by entering a phone number.

### 1 Display the number input screen



### 2 Enter a phone number



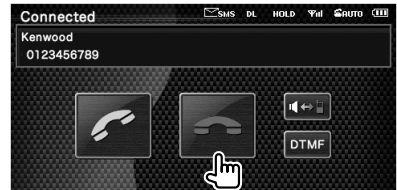
- 1 Calls the entered phone number.
- 2 Creates an SMS for the entered phone number.  
See <SMS (Short Message Service)> (page 59).
- 3 Clears the number.
- 4 Returns to the previous screen.

### 3 Make a call



You can start talking when the destination responds.

### 4 End the call



The Hand Free screen reappears.



- You can input max 32 digits.

## Quick Dialing

You can register up to 6 phone numbers for quick dialing.



- Phone numbers must be registered in advance. See <Phone Number Preset> (page 58).

### 1 Recall the phone number



### 2 Make a call



- Only the phone numbers can be registered for Quick Dialing. Therefore, the destination subscriber name and others are not displayed during dialing.

## Controlling tone-based services

Uses tone base service using DTMF (Dual Tone Multi Frequency).

### 1 Display the DTMF input screen

Display the Talking screen. See <Calling by Entering a Phone Number> (page 50).



### 2 You can send tones during a call



- 1 Returns to the previous screen.

## Calling by Phonebook

You can call a person using his/her phone number that you have registered in the Phonebook.

### 1 Display the Phonebook screen



The Initial Input screen appears.

### 2 Select the Phonebook search method

You can search by the initial of the Phonebook data.

#### Initial alphabet screen



- 1 Displays the Phonebook beginning with the name whose first character you have touched.
- 2 Selects the character array display.
- 3 Returns to the Hands Free Control screen.



#### Initial number screen



- 4 Displays a list of numbers in the Phonebook starting with the selected number.



### Cyrillic alphabet search screen



- 5 Displays the Phonebook beginning with the name whose first character you have touched.

### 3 Select the name to call



- 6 Phonebook data list.  
"REC" turns on for data with voice for voice recognition already registered.
- 7 Scrolls the Phonebook data list.
- 8 Scrolls the name.
- 9 Registers the voice for voice recognition to the selected Phonebook. If there are already 35 voice tag registered in the same cell-phone, [Record] button is deactivated. See <Voice Registration> (page 56).
- 10 Plays the voice registered in the selected Phonebook data.
- 11 Deletes the voice registered in the selected Phonebook data.  
Touch to display the confirmation screen. Touch [YES] to delete or [NO] to cancel.
- 12 Displays the detail of the selected Phonebook data.
- 13 Returns to the Initial Input screen.

### 4 Select the phone number to call



- 14 Calls the selected phone number.
- 15 Creates an SMS for the displayed phone number.  
See <SMS (Short Message Service)> (page 59).
- 16 Scrolls the phone number.
- 17 Returns to the Name List screen.
- 18 Returns to the Initial Input screen.

## 5 Make a call



- To use the Phonebook, it must have been downloaded from the cell-phone. For more details, see the instruction manual of your Bluetooth Unit and your cell-phone.
- Initials including no corresponding name will not be displayed.
- During search, a non-accent character such as "u" is searched for instead of an accent character such as "ü".

## Making a Call Using Outgoing/Incoming Call Records

Calls by selecting a phone number from the outgoing or incoming calls list.

### 1 Display the Outgoing Calls or Incoming Calls screen



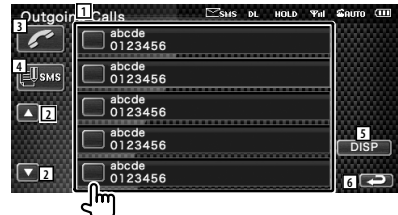
: Outgoing Calls

: Incoming Calls

The Outgoing Calls or Incoming Calls list screen appears.

### 2 Select from calls list

Example : Outgoing Calls screen



- 1 Outgoing Calls list.
- 2 Scrolls the list.
- 3 Makes a call to the selected number.
- 4 Creates an SMS for the selected phone number. See <SMS (Short Message Service)> (page 59).
- 5 Displays the detail of the selected phone number.
- 6 Returns to the Hands Free Control screen.

### 3 Make a call



- The Outgoing Calls list screen or Incoming Calls list screen shows the list of the calls originated from or received at this unit. They are not the ones stored in the cell-phone memory.

## Calling by Voice Recognition

Calls by recognizing the registered voice.



- In order to perform voice recognition, voice must be registered in the Phonebook data. See <Voice Registration> (page 56). Or, to perform voice recognition by Phone number category (Home, Office, Mobile etc.) of Phonebook data, a key word voice must be registered. See <Key Word Voice Registration> (page 57).

### 1 Display the Voice Recognition screen



### 2 Utter the voice registered in the Phonebook



Utter within 2 seconds after the Beep.

- Displays the recognized phone number or address.
- Cancels voice recognition.

**If the voice recognition is succeeded and there is only one phone number found:**



Make a call.

- Displays the phonebook list.

**If you hear another Beep sound:**

Speak the key word within 2 seconds after the Beep, or touch the [Phonebook List] button to select the phone number.



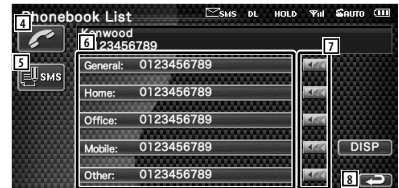
Make a call.



- If there are more than one phone numbers registered under the same name, and the key word voice is registered for each phone number, you will hear another beep. For how to register key word, see <Key Word Voice Registration> (page 57).

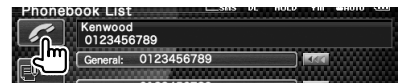
**If there are more than one phone numbers registered under the same name, go to step 3.**

### 3 Select a Phone number category



- Calls the displayed phone number.
- Creates an SMS to the displayed address. See <SMS (Short Message Service)> (page 59).
- Selects the Phone number category.
- Scrolls the phone number.
- Returns to the previous screen.

### 4 Make a call



- A message is displayed if the voice is not recognized. Read the message for the further operation.

## Setting Up the Hands Free Phone

The Hands Free system can be set as follows.

### 1 Display the Hands Free Setup screen



### 2 Setup each item



- 1 Moves to the "Hands Free Set Up 2" screen.
- 2 Sets an automatic response time after call termination. (☑ "8")  
"Off": This function can not use.  
"0-99": Sets to calling ring time (second).
- 3 Sets a ringing tone output position. (☑ "Front R")  
"Front L": Outputs the tone from the front left-hand side speaker.  
"Front R": Outputs the tone from the front right-hand side speaker.  
"Front All": Outputs the tone from the both front speakers.
- 4 Sets the beep of the incoming call. (☑ "On")  
"On": Beep is heard.  
"Off": Beep is canceled.
- 5 Sets the beep of the incoming SMS. (☑ "On")

"On": Beep is heard.

"Off": Beep is canceled.

- 6 Returns to the "Hands Free Control" screen.
- 7 Returns to the "Hands Free Set Up 1" screen.
- 8 Sets whether to use cell-phone phonebook, outgoing calls list and incoming calls list. (☑ "On")  
"On": Yes.  
"Off": No.
- 9 Sets the SMS function. (☑ "On")  
"On": Use SMS function.  
"Off": SMS not available.
- 10 Registers the voice to select phone number category with voice recognition.  
See <Key Word Voice Registration> (page 57).
- 11 Registers the phone number to Hands Free Control screen preset button.  
See <Phone Number Preset> (page 58).
- 12 Returns to the Hands Free Control screen.



- Either the time interval for automatic answer set on this unit or the time interval set on the cell-phone, whichever is shorter, takes effect.
- Select the speaker which is further from the microphone in order to prevent howling or echoes.

## Voice Registration

Registers voice for voice recognition in Phonebook. Up to 35 voices can be recorded in one cell-phone.

### 1 Select the name to register

Go through the procedure of <Calling by Phonebook> (page 52).



- 1 Selects a name.  
"REC" turns on for data with voice for voice recognition already registered.

### 2 Display the voice registration screen



### 3 Utter the voice to register (1st try)



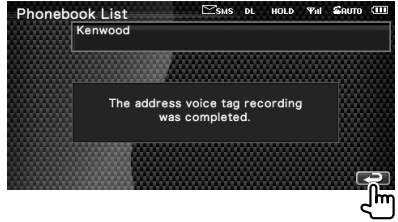
- 2 Registers the voice.
- 3 Cancels voice registration.

Utter within 2 seconds after the Beep.

### 4 Utter the voice to register (2nd try)



### 5 End voice registration



- A message is displayed if the voice is not recognized. Read the message for the further operation.
- Repeat from 1st try if the voice is different from the 1st try.



## Key Word Voice Registration

Registers the voice to select the Phone number category by Voice Recognition.

### 1 Display the Key Word List screen

Display the "Hands Free" screen and touch [Setup]. See <Control Screen Function> (page 49).



### 2 Select the Phone number category to register

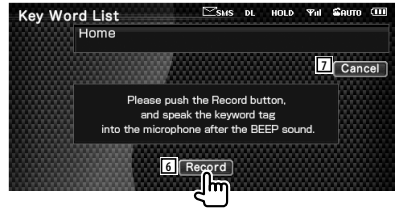


- 1 Selects the Phone number category. "REC" turns on for data with voice for voice recognition already registered.
- 2 Registers voice for the selected Phone number category.
- 3 Plays voice registered for the selected Phone number category.
- 4 Deletes voice registered for the selected Phone number category. Touch to display the confirmation screen. Touch [YES] to delete or [NO] to cancel.
- 5 Returns to the Hands Free Set Up screen.

### 3 Display voice registration screen



### 4 Utter the voice to register (1st try)



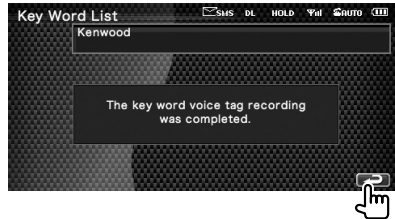
- 6 Registers the voice.
- 7 Cancels voice registration.

Utter within 2 seconds after the Beep.

### 5 Utter the voice to register (2nd try)



### 6 End voice registration



- A message is displayed if the voice is not recognized. Read the message for the further operation.
- Repeat from 1st try if the voice is different from the 1st try.

## Phone Number Preset

Registers frequently used phone number to Hands Free control screen preset button.

### 1 Display the Hands Free Preset List screen

Display the "Hands Free" screen and touch [Setup]. See <Control Screen Function> (page 49)



### 2 Select the Preset number to register



1 Returns to the Hands Free Set Up screen.

### 3 Select the search destination of the number to register



- 2 Registers from SMS incoming calls list.
- 3 Registers from SMS outgoing calls list.
- 4 Registers from Phonebook.
- 5 Registers from outgoing calls list.
- 6 Registers from incoming calls list.
- 7 Registers by entering phone numbers.
- 8 Registers voice for voice recognition to preset number.
- 9 Registers the currently displayed phone number.

- 10 Deletes the currently displayed phone number.
- 11 Returns to the previous screen.

### 4 Search phone number to register with each function

### 5 Register phone number



- Press [Delete] to delete the registered phone number.

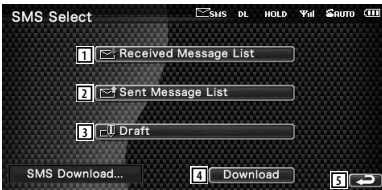
## SMS (Short Message Service)

Uses SMS function.

### 1 Display the SMS Select screen



### 2 Select a function



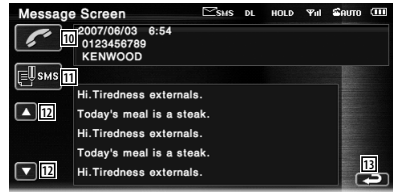
- 1 Displays received message list.
- 2 Displays sent message list.
- 3 Displays the Message screen. If there is an unfinished message, the button will be active.
- 4 Retrieves SMS messages from the cell-phone.
- 5 Returns to the Hands Free screen.

### 3 Select message to display



- 6 Calls the number in the selected message.
- 7 Creates a new message for the selected message.
- 8 Scrolls the list.
- 9 Displays the selected message.

### SMS Message screen



- 10 Calls the number in the selected message.
- 11 Creates a new message for the selected message.
- 12 Scrolls the message.
- 13 Returns to the previous screen.

### 4 Create a message



- 14 Moves the cursor.
- 15 Displays remaining number of characters allowed.
- 16 Enters character.
- 17 Changes keyboard character type.
- 18 Sends the message.
- 19 Sets the key layout of the character buttons.  
ABC : Alphabetical key layout.  
QWE : Qwerty key layout.
- 20 Enters space.
- 21 Erases the entered character.  
If pressed more than 1 second, all the input characters are erased.
- 22 Returns to the previous screen.

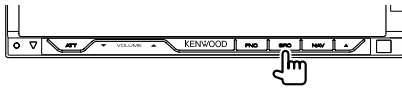
# Setup Menu

You can setup various receiver parameters.

## Setup Menu

Displays the Setup menu to set various functions.

### 1 Display the control screen of any source

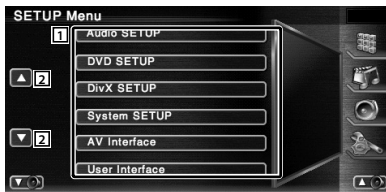


Touch any source button on the "Source Select" screen.

### 2 Display the SETUP Menu



### 3 Select the setup item



- 1 The selected setup screen appears.
- 2 Scrolls the setup menu.



- [Audio SETUP] and [AV Interface] options can be locked. The key mark is displayed in reverse video for the locked option. See <Setup Memory> (page 79).

## Audio Setup

You can setup a speaker network, etc.

### 1 Display the Audio SETUP screen

Touch **Audio SETUP** in the "SETUP Menu" screen (page 60).



- [Audio SETUP] cannot be selected under the following conditions:
  - When no source is selected.
  - When dual zone function is set to on. See <Zone Control> (page 84)

### 2 Setup each item



- 1 Selects the speaker to set the crossover. See <Crossover Network Setup> (page 61).
- 2 Sets the availability of subwoofers. See <System Setup> (page 64).
- 3 Selects the type of front speakers.
  - "Standard": Setup for general diameter speakers
  - "Narrow": Setup for small diameter speakers
  - "Middle": Setup for middle diameter speakers
  - "Wide": Setup for large diameter speakers
- 4 Switches to the crossover setup screen. See <Crossover Network Setup> (page 61).
- 5 Returns to the "SETUP Menu" screen.

## Crossover Network Setup

You can set a crossover frequency of speakers.

### 1 Select the speaker to set the crossover

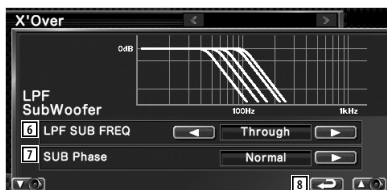


- 1 Sets the High Pass Filter of the front speaker.
- 2 Sets the High Pass Filter of the rear speaker.
- 3 Sets the Low Pass Filter of the sub woofer.
- 4 Switches to the crossover setup screen.
- 5 Returns to the "SETUP Menu" screen.

### 2 Display the Crossover setup screen



### 3 Set the crossover



- 6 Sets the cross over frequency.  
When front speaker or rear speaker is selected in step 1:  
High Pass Filter adjustment  
When Subwoofer is selected in step 1 :  
Low Pass Filter adjustment
- 7 Sets the sub woofer phase. (Only when "Subwoofer" is set to "ON" in Audio Setup and "LPF SUB FREQ" is set to other than "Through")
- 8 Returns to the "Audio SETUP" screen.

## DVD Setup

You can setup the DVD play.

### 1 Display the DVD SETUP screen

Touch **DVD SETUP** in the "SETUP Menu" screen (page 60).

### 2 Setup each item



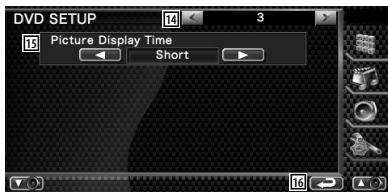
- 1 Moves to the "DVD SETUP 2" screen.
- 2 Selects a disc menu language.\*1  
(See <Language Setup>, page 62)
- 3 Selects a subtitle language.\*1  
(See <Language Setup>, page 62)
- 4 Selects an audio language.\*1  
(See <Language Setup>, page 62)
- 5 Sets the dynamic range.\*1 (Wide)  
The dynamic range is reduced by changing from "Wide" to "Normal" and from "Normal" to "Dialog". "Dialog" makes the total sound volume becomes larger as compared with "Wide" and "Normal", allowing you to listen to the movie's dialog more clearly.  
This is effective only when you are using a Dolby Digital software.  
The operation is available during the play stop mode.
- 6 Returns to the "SETUP Menu" screen.



Next page ►



- 7 Returns to the "DVD SETUP 1" screen.
- 8 Moves to the "DVD SETUP 3" screen.
- 9 Sets an angle mark display. (☑ "On")
- 10 Selects the screen display mode.\*1  
 ("16:9")  
 "16:9": Displays wide pictures.  
 "4:3 LB": Displays wide pictures in the Letter Box format (having black stripes at the top and bottom of screen).  
 "4:3 PS": Displays wide pictures in the Pan & Scan format (showing pictures cut at the right and left ends).
- 11 Displays the Parental Lock screen.\*1  
 (☑ "Off")  
 (See <Parental Level Setup>, page 63)
- 12 Keep "Auto" to use.\*1
- 13 Returns to the "SETUP Menu" screen.



- 14 Returns to the "DVD SETUP 2" screen.
- 15 Selects a picture display time.\*1  
 ("Middle")  
 The Display of a JPEG picture is changed. ("Short", "Middle", "Long")
- 16 Returns to the "SETUP Menu" screen.



\*1 Disabled when a DVD is being played.

## Language Setup

Selects a language you use for the speech and menus.

### 1 Select the language item to set

See to <DVD Setup> (page 61) and select [Menu Language], [Subtitle Language] or [Audio Language].



### 2 Display the Language SETUP screen

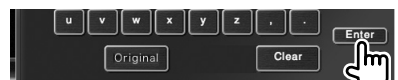


- 1 Enters a language code.
- 2 Cancels the language setup and returns to the "DVD SETUP 1" screen.
- 3 Sets the original audio language.  
 (It appears during Audio Language setup.)
- 4 Sets the language and returns to the "DVD SETUP 1" screen.  
 (It appears after you have entered a language code.)
- 5 Clears the language code.

### 3 Enter a language code

See <DVD Language Codes> (page 92) and select the desired language.

### 4 Set the language you use



## Parental Level Setup

Sets a parental level.

### 1 Display the Parental Level code number screen

See to <DVD Setup> (page 61) and touch [Parental Level].



### 2 Enter the code number



- 1 Enters a code number.
- 2 Cancels the current setup and returns to the "DVD SETUP 2" screen.
- 3 Indicates the present parental lock level.
- 4 Determines the code number and displays the Parental Level setup screen.
- 5 Clears the code number.

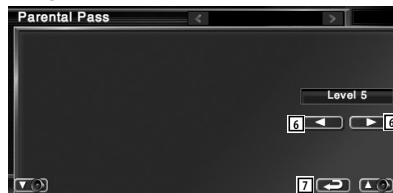


- The number you enter first is set as your code number.
- You can clear the code number by pressing the Reset button.

### 3 Display the Parental Level SETUP screen



### 4 Select a parental level and complete the setup



- 6 Selects a parental level.
- 7 Complete the parental level setup and returns to the "DVD SETUP 2" screen.



- If a disc has higher parental lock level, you need to enter the code number.
- The parental lock level varies depending on a loaded disc.
- If a disc has no parental lock, anybody can play it back even when you have set the parental lock.

## System Setup

You can setup the system parameters.

### 1 Display the SETUP System screen

Touch **System SETUP** in the "SETUP Menu" screen (page 60).

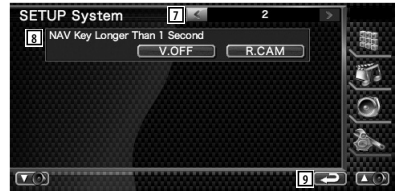
### 2 Setup each item



- 1 Moves to the "SETUP System 2" screen.
- 2 Turns the key touch tone On or Off. (On)
- 3 Allows scrolling of text display on the Source Control screen. (Manual)  
 "Auto": Scrolls the screen automatically.  
 "Manual": Allows you to scroll the screen manually.
- 4 Selects a remote control signal. (On)  
 When turned "Off", the remote control of TV reception is rejected.
- 5 Sets a music CD playback. (1)  
 "1": Automatically recognizes and plays back an Audio file disc, a DVD or a music CD.  
 "2": Forcibly plays back a disc as a music CD. Select "2" if you wish to play a music CD having a special format or if you cannot play a disc in the "1" position.
- 6 Returns to the "SETUP Menu" screen.



- You cannot play an Audio file/VCD disc in the "2" position. Also, you may not play some music CDs in the "2" position.
- Your setup is disabled when the disc is being played.



- 7 Returns to the "SETUP System 1" screen.
- 8 Sets the function of the [NAV] button.  
 "V. OFF": Press the [NAV] button for more than 1 second to turn the display off.  
 "R. CAM": Press the [NAV] button for more than 1 second to switch to rear view.
- 9 Returns to the "SETUP Menu" screen.



## AV Interface Setup

You can set audio and visual (AV) interface parameters.

### 1 Display the AV Interface screen

Touch **AV Interface** in the "SETUP Menu" screen (page 60).

### 2 Setup each item



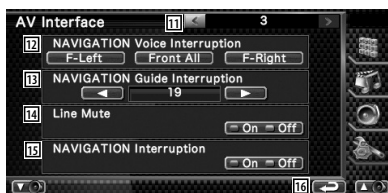
- 1 Moves to the "AV Interface 2" screen.
- 2 Sets a name to be displayed when you select a system that is connected via the AV INPUT port. (📎 "VIDEO")
- 3 Sets an image display of the system that is connected via the AV INPUT port. (📎 "Off")  
"Off": When the image source is switched, an image entered via the AV INPUT port is displayed.  
"On": When an image signal is entered via the AV INPUT port, this image is displayed.
- 4 Returns to the "SETUP Menu" screen.



- 5 Returns to the "AV Interface 1" screen.
- 6 Moves to the "AV Interface 3" screen.
- 7 Selects an AV source to be output at the AV OUTPUT port. (📎 "AV-IN")
- 8 Sets a method to switch to the rear view camera video display. (📎 "Off")  
"On": Switches to the rear view camera video display when engaging the shift knob of car to "Reverse".

"Off": Switches to the rear view camera video display when engaging the shift knob of car to "Reverse" and then pressing the [NAV] button for more than 1 second.

- 9 You can flip the left and right of the rear view camera video display. Set to "On" and the the rear view will be displayed left and right in mirror image on the screen. (📎 "Off")
- 10 Returns to the "SETUP Menu" screen.



- 11 Returns to the "AV Interface 2" screen.
- 12 Selects speakers used for voice guidance of the navigation system. (📎 "F-Left")  
"F-Left": Uses the front left side speaker for voice guidance.  
"F-Right": Uses the front right side speaker for voice guidance.  
"Front All": Uses both front speakers for voice guidance.
- 13 Adjusts the volume for voice guidance of the navigation system. (📎 "21")
- 14 Mutes the volume during voice guidance of the navigation system. (📎 "On")  
When turned "On", the volume level drops for voice guidance.
- 15 Sets the voice guidance method of the Navigation system. (📎 "On")  
"On": Voice guidance is On.  
"Off": Voice guidance is Off.
- 16 Returns to the "SETUP Menu" screen.

## User Interface

You can setup user interface parameters.

### 1 Display the User Interface screen

Touch **User Interface** in the "SETUP Menu" screen (page 60).

### 2 Setup each item



- 1 Moves to the "User Interface 2" screen.
- 2 Selects the background to display.  
"Change": Displays images entered into this unit. Refer to <Background Select> (page 69).
- 3 Enables entering or deleting of background images into or from this unit.  
Press to enter the USB suspend mode, and then remove the USB device.  
"Memory": Enables entering of background images. Refer to <Entering Background> (page 68).  
"Delete": Enables deleting of background image entered into this unit. Refer to <Background Delete> (page 68).
- 4 Registers the source displayed in the favorite source screen.  
See <Direct Source Button Setup> (page 67).
- 5 Sets the display method of the unrecognized characters.  
"On": Displays in the Russian character.  
"Off": Displays in the European character.
- 6 Returns to the "SETUP Menu" screen.



- 7 Returns to the "User Interface 1" screen.
- 8 Moves to the "User Interface 3" screen.
- 9 Sets an on-screen display of the iPod Playback screen. ( "Auto")  
"Auto": Information is displayed for 5 seconds when updated.  
"Manual": Information is displayed when you touch on the screen.
- 10 Sets an on-screen display of the navigation screen. ( "Off")  
"Auto": Information is displayed for 5 seconds when updated.  
"Off": Information is not displayed.
- 11 Sets an on-screen display of the video playback screen. ( "Auto")  
"Auto": Information is displayed for 5 seconds when updated.  
"Manual": Information is displayed when you touch on the screen.
- 12 Returns to the "SETUP Menu" screen.



- 13 Returns to the "User Interface 2" screen.
- 14 Moves to the "User Interface 4" screen.
- 15 Sets an on-screen display of the TV screen. ( "Auto") (with the optional accessory TV tuner connected only)  
"Auto": Information is displayed for 5 seconds when updated.  
"Manual": Information is displayed when you touch on the screen.
- 16 Sets an on-screen display of the DVD Playback screen. ( "Manual")  
"Auto": Information is displayed for 5

seconds when updated.

"Manual": Information is displayed when you touch on the screen.

- 17 Returns to the "SETUP Menu" screen.



- 18 Returns to the "User Interface 3" screen.
- 19 Sets whether to display animation when switching screens. (☑ "On")
- 20 Sets whether to display the name of the , , , and buttons on the right side of the menu screen.
- 21 Sets whether to display the target when touching the panel.
- 22 Returns to the "SETUP Menu" screen.

## Direct Source Button Setup

Registers the source displayed in the favorite source screen.

### 1 Displays the Direct SRC button Setup screen



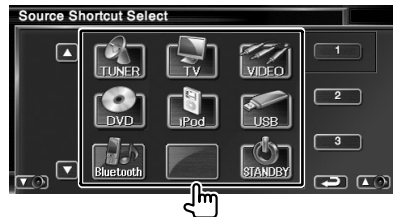
See <User Interface> (page 66).

### 2 Select a preset button



- 1 Selects the preset button to register.
- 2 Selects the source to register.
- 3 Scrolls the source button list.
- 4 Returns to the "User Interface 4" screen.

### 3 Select a source to register



### 4 Complete the registration



## Entering Background

Loads a image for background.

- 1 Connect the device which has the image to load

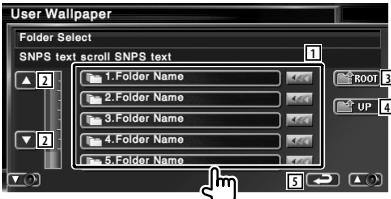
- 2 Display the User Interface screen

Touch **User Interface** in the "SETUP Menu" screen (page 60).

- 3 Display the Background Memory screen



- 4 Select the image to load



- 1 Lists the files.
- 2 Scroll the list.
- 3 Returns to Media Select screen.
- 4 Returns to the previous folder.
- 5 Returns to the "User Interface" screen.

- 5 Load the image



- 6 Rotates the image.
- 7 Returns to the Picture Select screen.



- Refer to <About Picture files> (page 8) for readable image specifications.
- Up to 3 images can be loaded.
- This operation is not possible when USB is selected as the source.

## Background Delete

Deletes the background image.

- 1 Display Delete Image Select screen



- 2 Select the image to be deleted

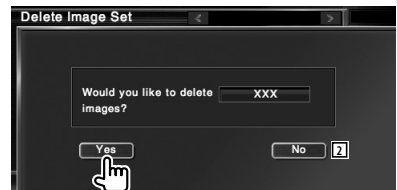


- 1 Returns to the original screen.

- 3 Delete the image



- 4 Confirm



- 2 Returns to the Picture Select screen.

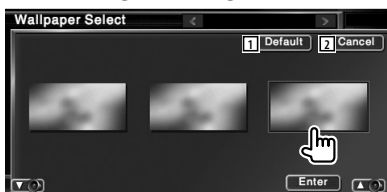
## Background Select

Selects a image for background.

### 1 Select Background Change screen



### 2 Select a image for background



- 1 Returns to the initial background.
- 2 Returns to the original screen.

### 3 Set the image as the background



## Touch Panel Adjustment

You can adjust the touch panel operations.

### 1 Display the Touch panel Adjustment screen

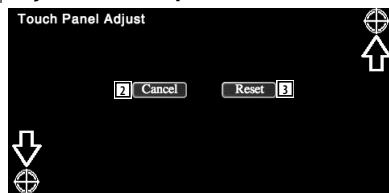
Touch **Touch** in the "SETUP Menu" screen (page 60).

### 2 Start Touch panel setup



- 1 Returns to the "SETUP Menu" screen.

### 3 Adjust the Touch panel



Follow the instruction on the screen and touch the center of .

- 2 Cancels the adjustment and returns to the Touch Panel Adjust screen.
- 3 Resets to the initial status.

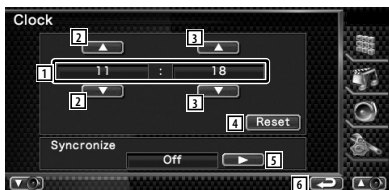
## Clock Setup

You can adjust the clock time.

### 1 Display the Clock Setup screen

Touch **Clock** in the "SETUP Menu" screen (page 60).

### 2 Setup the Clock



- 1 Clock time display
- 2 Adjusts hours.
- 3 Adjusts minutes.
- 4 Sets "00" minute.  
Setup examples: 3:00 – 3:29 ➔ 3:00  
3:30 – 3:59 ➔ 4:00
- 5 Sets the clock time in synchronization with the time data sent from the navigation system or the RDS station. (📄 "Navigatoin") When the synchronized mode is set, the clock cannot be adjusted manually.
- 6 Returns to the "SETUP Menu" screen.

### 3 Adjust the clock time



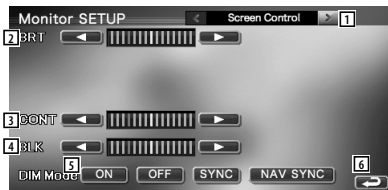
## Monitor Setup

You can adjust the position, picture quality and the screen mode of the monitor.

### 1 Displaying the Monitor SETUP screen

Touch **Monitor SETUP** in the "SETUP Menu" screen (page 60).

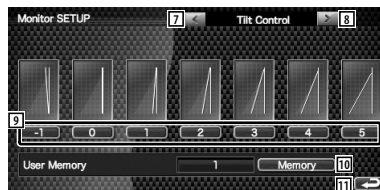
### 2 Setup each item



- 1 Moves to "Tilt Control" screen.
- 2 Brightness control
- 3 Contrast Control
- 4 Black Level Adjustment
- 5 Dimmer Mode Setup  
"ON": The display dims.  
"OFF": The display doesn't dim.  
"SYNC": Turning the Dimmer function On or Off when the vehicle light control switch is turned On or Off.  
"NAVI SYNC":  
Turning the Dimmer function On or Off according to the Navigation Day/Night display setting.
- 6 Returns to the "SETUP Menu" screen.



- In this Screen Control screen, you can perform setups for the menu screen. Setups for videos such as DVD can be performed on the <Screen Control> (page 48).

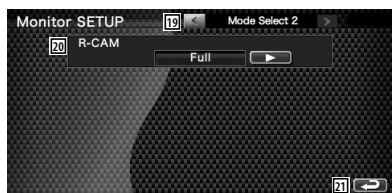


- 7 Returns to the "Screen Control" screen.
- 8 Moves to "Mode Select 1" screen.
- 9 Sets the Monitor angle.

- 10 Stores the current monitor angle as the angle during power off.
- 11 Returns to the "SETUP Menu" screen.



- 12 Returns to the "Tilt Control" screen.
- 13 Moves to the "Mode Select 2" screen.
- 14 Selects a screen mode of the iPod VIDEO playback screen.  
You can select any of the following screen mode.  
"Full", "Just", "Zoom", "Normal"
- 15 Selects a screen mode of the DVD playback screen.  
You can select any of the following screen mode.  
"Full", "Just", "Zoom", "Normal"
- 16 Selects a screen mode of the VIDEO playback screen.  
You can select any of the following screen mode.  
"Full", "Just", "Zoom", "Normal"
- 17 Selects a screen mode of the TV screen.  
You can select any of the following screen mode.  
"Full", "Just", "Zoom", "Normal"
- 18 Returns to the "SETUP Menu" screen.



- 19 Returns to the "Mode Select 1" screen.
- 20 Selects a screen mode of the rear view camera (R-CAM) screen.  
You can select any of the following screen mode.

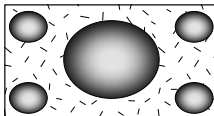
"Full", "Just", "Zoom", "Normal"

- 21 Returns to the "SETUP Menu" screen.

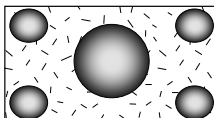


- When you select the Menu or Navigation, the display is shown in the full-size display mode automatically. The screen mode of these displays cannot be changed.
- The picture quality can be set for each source.

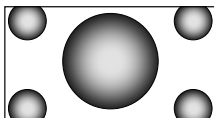
### Full picture mode ("Full")



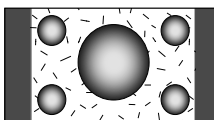
### Justify picture mode ("Just")



### Zoom picture mode ("Zoom")



### Normal picture mode ("Normal")



## Security Code Setup

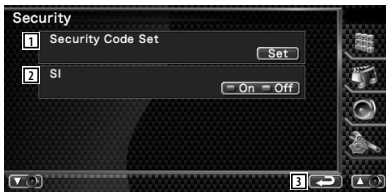
You can set a security code to protect your receiver system against theft.



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

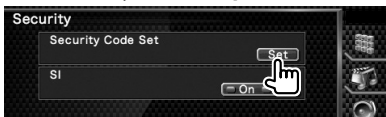
### 1 Display the Security Code Setup screen

Touch **Security SETUP** in the "SETUP Menu" screen (page 60).



- Displays the Security code input screen.
- Turns the SI function on or off.  
If turned "On", the burglar alarm lamp flashes when the vehicle ignition is off.  
( "On")
- Returns to the original screen.

### 2 Start Security Code setup



- If you have already completed the code registration, you cannot touch [Set].

### 3 Enter a security Code



Input four-digit number.

### 4 Register your security code



### 5 Reenter the security code

Reenter the same security code as that you have entered in Step 3 for confirmation.



- If you enter a different security code, the screen returns to Step 3 (for the first code entry).

### 6 Register the security code again



Now, your security code is registered.

If you press the Reset button or if you disconnect your receiver from the battery after the code registration, you need to enter the registered security code.



If you have pressed the Reset button or if you have disconnected the Receiver from battery...

## 1 Enter the correct security code



You must enter the same security code as that you have entered in Step 3.

## 2 Enter the security code



Now, you can use your Receiver.



- If you enter an incorrect security code, you cannot use your Receiver for a while.

Incorrect entry count	Receiver inoperable time
1	-
2	5 minutes
3	1 hour
4 or more	24 hours

## TV Setup

The TV signal receiving areas can be set. (with the optional accessory TV Tuner connected only)

### 1 Displaying TV SETUP screen

Touch **TV Setup** in the "SETUP Menu" screen (page 60).

### 2 Setting up TV



- Moves to "TV2 Area Set" screen.
- Sets the present TV1 receiving area.
- Returns to the "SETUP Menu" screen.



- Returns to the "TV1 Area Set" screen.
- Sets the present TV2 receiving area.
- Returns to the "SETUP Menu" screen.

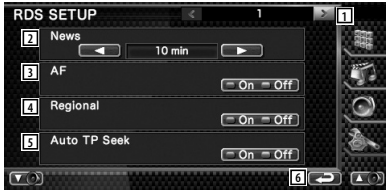
## RDS Setup

You can set RDS related parameters.

### 1 Display the RDS Setup screen

Touch **RDS SETUP** in the "SETUP Menu" screen (page 60).

### 2 Setup each item



- 1 Moves to "RDS SETUP 2" screen.
- 2 Sets a news bulletin interrupt time.
- 3 Turns the Alternative Frequency function On or Off. (☑ "On")
- 4 Turns the Region Restriction function On or Off. (☑ "On")
- 5 Turns the Auto TP Seek function On or Off. (☑ "On")
- 6 Returns to the "SETUP Menu" screen.



- 7 Returns to the "RDS SETUP 1" screen.
- 8 Selects a display language for the PTY function.
- 9 Returns to the "SETUP Menu" screen.

## iPod Setup

Performs setup when using iPod.

### 1 Display the iPod SETUP screen

Touch **iPod SETUP** in the "SETUP Menu" screen (page 60).

### 2 Setup each item



- 1 Sets the Audio book playback speed.
- 2 Sets Wide Screen on or off.
- 3 Returns to the "SETUP Menu" screen.



- "Wide Screen" cannot be set while the iPod is connected.

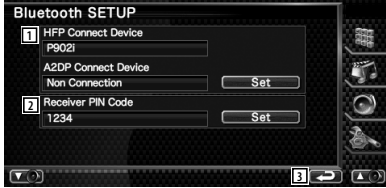
## Bluetooth Setup

Registers and selects Bluetooth unit.

### 1 Display the Bluetooth Setup screen

Touch **Bluetooth SETUP** in the "SETUP Menu" screen (page 60).

### 2 Setup each item

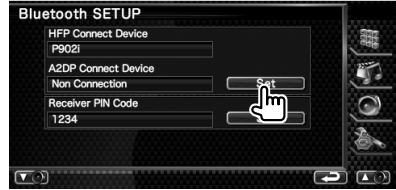


- 1 Sets cell-phone for Hands Free and Audio player for Bluetooth Audio.
- 2 Sets the PIN code of the Bluetooth unit to enter when registering (pairing) from the cell-phone or audio player side.
- 3 Returns to the "SETUP Menu" screen.

## Registering Bluetooth Unit

Registers the Bluetooth unit to be connected.

### 1 Display the Connect Device List screen



### 2 Search for a Bluetooth unit



- 1 Displays the registered Bluetooth unit. Displays the busy service in blue. Displays the available service in gray.
- 2 Scrolls the name of the Bluetooth unit.
- 3 Searches for Bluetooth unit.
- 4 Registers Bluetooth unit that cannot be registered by normal register (paring) operation.
- 5 Returns to the previous screen.



- A new device cannot be registered if there are 5 registered Bluetooth units. Delete unnecessary registration. See <Deleting Bluetooth Unit> (page 78).

### 3 Select the Bluetooth unit to register



- 6 Displays the searched Bluetooth unit.
- 7 Scrolls the name of the Bluetooth unit.
- 8 Cancels searching of Bluetooth unit.
- 9 Starts search.

Next page ►

- 10 Scrolls.
- 11 Returns to the previous screen.

**4 Enter PIN code**

Enter the PIN code specified for the Bluetooth unit to register.



- 12 Enters a code number.
- 13 Cancels registration of PIN code.
- 14 Enters PIN code.
- 15 Clears the code number.

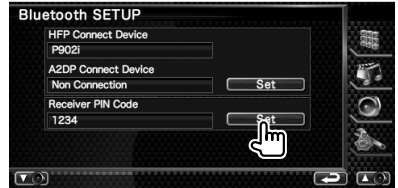


- You can also register from the Bluetooth unit side. For the PIN code necessary for registration, see <Registering Bluetooth Unit PIN Code> (page 76).
- If the error message appears even though the PIN code is correct, try <Registering Special Bluetooth Unit> (page 77).

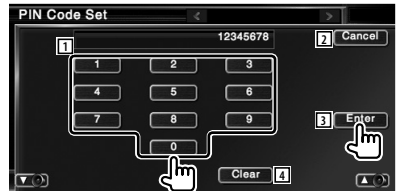
**Registering Bluetooth Unit PIN Code**

Sets the PIN code of the Bluetooth unit to enter when registering (pairing) from the cell-phone or audio player side.

**1 Display the Receiver PIN Code screen**



**2 Enter PIN code**



- 1 Enters a code number.
- 2 Cancels registration of PIN code.
- 3 Enters PIN code.
- 4 Clears the code number.

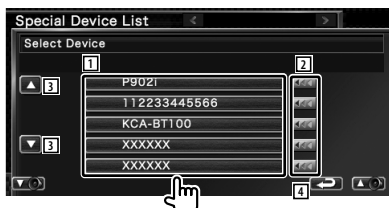
## Registering Special Bluetooth Unit

Registers Special Bluetooth unit that results in error by normal operation by selecting from model name.

### 1 Display the Special Device List screen



### 2 Select a model name



- 1 Displays the Bluetooth unit name that can be registered.
- 2 Scrolls the name of the Bluetooth unit.
- 3 Scrolls.
- 4 Returns to the previous screen.

### 3 Confirm whether to register



- 5 Cancels registration.



- Only models in Bluetooth unit name list can be registered.

### 4 Go through the procedure of <Registering Bluetooth Unit> (page 75) and complete the registration (pairing).

## Bluetooth Unit Connection

Selects the Bluetooth unit to connect.

### 1 Display the Connect Device List screen



### 2 Select a registered Bluetooth unit



- 1 Displays the registered Bluetooth unit.
- 2 Scrolls the name of the Bluetooth unit.
- 3 Returns to the previous screen.

### 3 Select the service to use

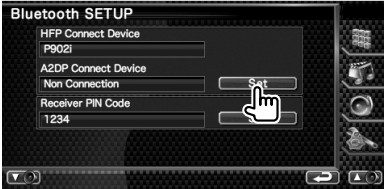


- 4 Connects/disconnects cell-phone to use for Hands Free.
- 5 Connects/disconnects Audio player to use for Bluetooth Audio.
- 6 Deletes registration (pairing).
- 7 Returns to the previous screen.

## Deleting Bluetooth Unit

Deletes the registered Bluetooth unit.

### 1 Display the Connect Device List screen



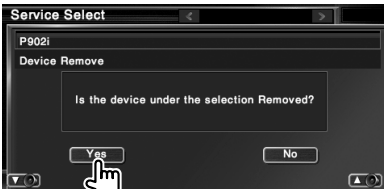
### 2 Select a Bluetooth unit to delete



### 3 Delete the Bluetooth unit



### 4 Confirm deleting of Bluetooth unit

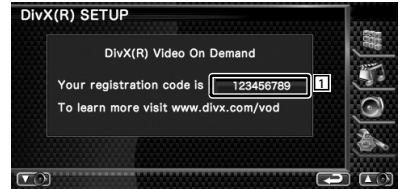


## DivX Setup

Checks the registration code. This code is needed when making a disc which has DRM (Digital Rights Management).

### 1 Display the DivX Setup screen

Touch **DivX(R) SETUP** in the "SETUP Menu" screen (page 60).



1 Displays the registration code.



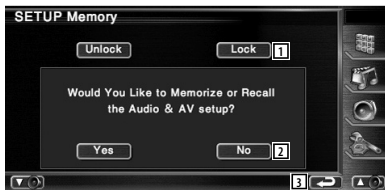
- When downloading a DivX VOD file controlled by DRM, register the code appeared on the screen such as the one above. Otherwise the file may not be able to play with this unit. Remaining number of viewing is displayed when playing a DivX VOD file with the viewing restriction. When the remaining number of viewing reached 0, a warning message appears and the file cannot be played.

## Setup Memory

Audio Setup and AV Interface settings can be memorized. The memorized settings can be recalled at any time. For example, even when the settings are cleared due to replacement of the battery, the settings can be restored.

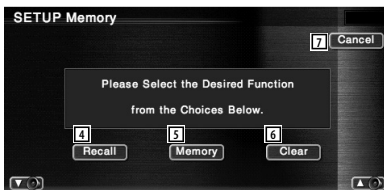
### 1 Display the SETUP Memory screen

Touch **Setup Memory** in the "SETUP Menu" screen (page 60).



- 1 Locks the Audio Setup and AV Interface settings. When **Lock** is selected, you cannot set the Audio Setup and AV Interface settings.
- 2 Memorizes or recalls the settings. To cancel the function, touch **No**. To cancel memorization, touch **No**. The SETUP Menu screen appears again.
- 3 Returns to the original screen.

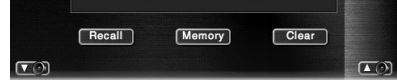
### 2 Start Setup Memory



- 4 Recalls the memorized settings.
- 5 Memorizes the current Audio Setup and AV Interface settings.
- 6 Clears the currently memorized settings.
- 7 Returns to "SETUP Memory" screen.

### 3 Memorize or recall the settings

When memorizing the Audio Setup and AV Interface settings:



If settings have already been memorized, a confirmation message appears. Touch **Yes**. To cancel memorization, touch **No**.

When recalling the memorized settings:



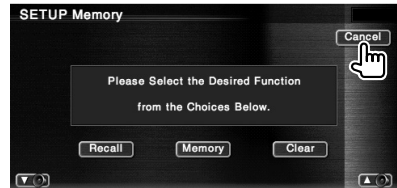
Touching the screen displays a confirmation message. Touch **Yes**. To cancel recalling, touch **No**.

When clearing the currently memorized settings:



Touching the screen displays a confirmation message. Touch **Yes**. To cancel clearing, touch **No**.

### 4 Quit memorization/recalling of settings



## EXT SW Setup

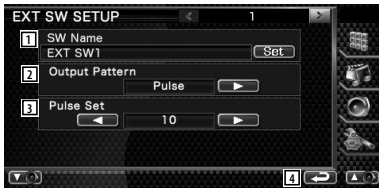
Setting up power specification of the external device for which the power is controlled from this unit.

### 1 Display the EXT SW SETUP screen

Touch **EXT SW SETUP** in the "SETUP Menu" screen (page 60).

### 2 Perform EXT SW Setup

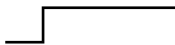
#### Setting EXT SW Control 1 (EXT SW1)



- 1 Sets the name of the external device. See <Character Entry> (page 47) for information on how to enter the name.
- 2 Sets the power signal output mode. (EXT SW1: Pulse, EXT SW2: Level)  
Pulse: Generates a single power signal pulse.



Level: Continues output of high power signal.

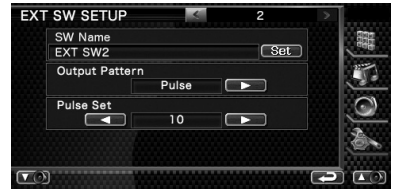


Sets to turn output on/off each time the button on the EXT SW Control screen is pressed.

- 3 Sets the Pulse signal output time. Outputs 500ms when "1" is set. Increases by 200ms with each step. Up to 100 steps can be set.
- 4 Returns to the original screen.



#### Setting EXT SW Control 2 (EXT SW2)



The setup method is the same as "EXT SW1".



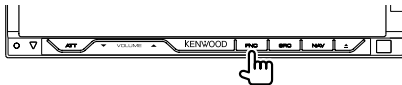


# Audio Control

## Audio Control Menu

Displays the Audio Control menu to set the sound effect function of this unit.

### 1 Display the control screen of any source



Press several times until the control screen appears.

### 2 Display the Audio Control menu



### 3 Select the Audio Control item



1 Switches to the selected Audio Control screen.

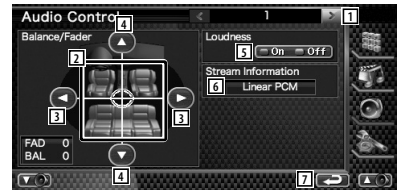
## Audio Control

You can adjust the front/rear and right/left audio balance.

### 1 Display Audio Control screen

Touch **Audio Control** in the "Audio Control Menu" screen (page 82).

### 2 Set the each item



- 1 Moves to the "Audio Control 2" screen.
- 2 Adjust the front/back and left/right volume around the touched area.
- 3 Adjusts the right and left volume balance.
- 4 Adjusts the front and rear volume balance.
- 5 Turns the Loudness control function On or Off.  
If turned "On", high and low tones are automatically enhanced during low volume.
- 6 Displays the present source information. The stream (Dolby Digital, dts, Linear PCM, MPEG, MP3, WMA or AAC) is displayed.
- 7 Returns to the "Audio Control Menu" screen.



- 8 Returns to the "Audio Control 1" screen.
- 9 Adjusts the volume of the present source based on the difference level of original volume.

10 Adjusts the subwoofer volume.

11 Returns to the "Audio Control Menu" screen.



- If you have increased the volume first, then reduced the volume using the "Vol. Offset", the sound generated if you suddenly switch to another source may be extremely loud.
- You may not set some models of power amp boost to "+18". See the catalog or instruction manual of power amplifier.

## Equalizer Control

You can setup the equalizer.

### 1 Display Equalizer Control

Touch **Equalizer** in the "Audio Control Menu" screen (page 82).

### 2 Display the Equalizer screen



1 Selects an equalizer curve type.  
You can select any of the following equalizer curves.

- "Natural"
- "Rock"
- "Pops"
- "Easy"
- "Top40"
- "Jazz"
- "User"



- "User" can be selected after tone adjustment is carried out. See <Tone Setup> (page 84).

2 Selects items to be adjusted for tone curve setup.  
If turned "Off", only Level can be setup for tone curves.

3 Displays the Tone curve setup screen. (page 84)

4 Returns to the "Audio Control Menu" screen.

## Tone Setup

You can set a Tone curve.

### 1 Display the Tone screen



See <Equalizer Control> (page 83).

### 2 Set the Tone



- 1 Tone curve becomes flat.
- 2 Bass adjustment items are displayed.
- 3 Middle adjustment items are displayed.
- 4 Treble adjustment items are displayed.
- 5 Sets the Center frequency.
- 6 Sets the level.
- 7 Sets the Q factor. (Only Bass and Middle can be set)
- 8 Bass DC Extend settings. (Only when Bass is selected)  
If turned "On", it extends the bass center frequency to the low register by approximately 20%.
- 9 Returns to the "Equalizer" screen.

## Zone Control

You can set the front and rear audio source.

### 1 Display Zone Control

Touch **Zone Control** in the "Audio Control Menu" screen (page 82).



- 1 Displays the current source.
- 2 Returns to the "Audio Control Menu" screen.

### 2 Set the Zone Control



- 3 Turns the Zone Function (that sets different source sounds for front and rear speakers) On or Off.
- 4 Switches the front and rear audio sources. (This button appears when the Zone function is On.)  
Use "Reverse" to change over the front and rear audio sources.
- 5 Sets the front and rear audio source separately. (This button appears when the Zone function is On.)



- When the rear speaker sound is switched, the audio source that is output at the AV OUTPUT terminal is also switched to the same source.

- 6 Adjusts the volume of the rear channel. (This button appears when the Zone function is On.)
- 7 Returns to the "Audio Control Menu" screen.



- There are following limitations when zone function is set to "On".
  - There is no output from the subwoofer.
  - <Audio Setup> (page 60) and <Equalizer Control> (page 83) are not available.

# Remote Controller

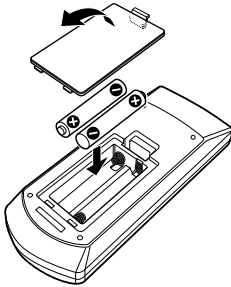
This unit can be operated using the Remote Controller supplied with the unit.



- Put the Remote Controller in a place where it will not move during braking or other operations. A dangerous situation could result, if the Remote Controller falls down and gets wedged under the pedals while driving.
- Do not place the battery near an open flame or heat source. This may cause the battery to explode.
- Do not recharge, short, break up or heat the battery or place it in an open fire. Such actions may cause the battery to leak fluid. If spilled fluid comes in contact with your eyes or on clothing, immediately rinse with water and consult a physician.
- Place the battery out of reach of children. In the unlikely event that a child swallows the battery, immediately consult a physician.

## Battery installation

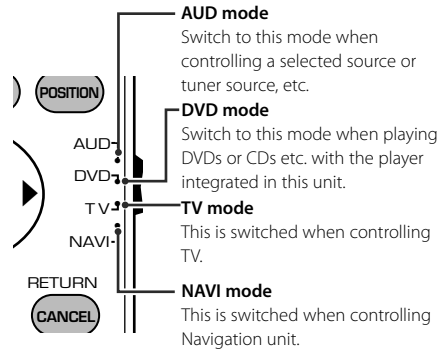
Use two "AAA"/"R03"-size batteries.  
Insert the batteries with the + and - poles aligned properly, following the illustration inside the case.



- If the Remote Controller operates only over shorter distances or does not operate at all, it is possible that the batteries are depleted. In such instances, replace the both batteries with new ones.

## Remote Controller mode switch

The functions operated from the remote controller differ depending on the position of the mode switch.

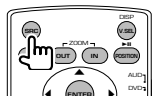


- The position of the remote control mode switch is indicated in the title of each mode, e.g., "(AUD mode)".
- When controlling a player that is not integrated in the unit, select "AUD" mode.

## Common operations (AUD mode)

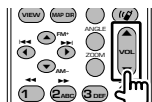
### Source switching

Switches to the source to be played.



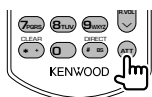
### Volume control

Adjusts the volume.



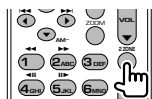
### Volume attenuator

Press the key once to lower the volume. Press again to restore the previous volume.



### Dual Zone

Switches the Dual Zone function ON and OFF.



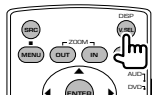
### Rear volume control

Adjusts volume at rear when the Dual Zone function is ON.



### V.SEL

Switches to the navigation screen.



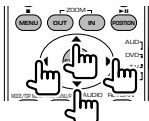
### Display angle

Switches the display angle each time it is pressed.



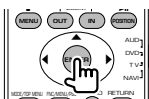
### Cursor key

Moves the cursor when displaying menu.



### ENTER

Enters options.



### Hands-free communication

Enters the dialing method selection mode.

When a call comes in, it answers the call.



### Function

Switches the function screen.



### MODE

Switches the screen mode.

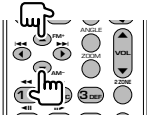
Screen mode changes each time you press this key.



**DVD/VCD/CD/Audio files (DVD mode)**

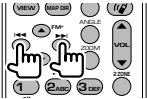
**Folder search**

Selects the folder to be played.



**Track search and file search**

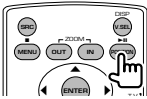
Selects the track or file to be played.



**Play/Pause**

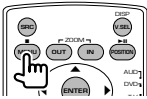
Pauses the track.

Press again to resume playing.

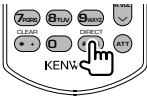


**Stop**

Memorizes the last point where the disc stopped. When pressed again, the last point is deleted.



**Direct search**



Pressing this button switches the features that can be searched directly.

**DVD**

- \_\_\_\_\_ Title number
- \_\_\_\_\_ Chapter number
- \_\_\_\_\_ Play time
- \_\_\_\_\_ Item number\*
- \_\_\_\_\_ Cancel

\* You may not be able to use this function with some discs or scenes.

**CD**

- \_\_\_\_\_ Track number
- \_\_\_\_\_ Play time
- \_\_\_\_\_ Cancel

**Audio files**

- \_\_\_\_\_ Folder number
- \_\_\_\_\_ File number
- \_\_\_\_\_ Cancel

**VCD 1.X, VCD 2.X (PBC OFF)**

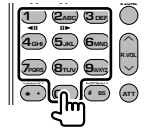
- \_\_\_\_\_ Track number
- \_\_\_\_\_ Cancel

**VCD 2.X (PBC ON)**

- \_\_\_\_\_ Scene number
- \_\_\_\_\_ Number
- \_\_\_\_\_ Cancel

Once you have switched to the direct search feature, specify the search number from the numeric keypad, and then press [ENTER] key.

**Numeric keypad**



- Specify the number to search in direct search.
- Press **1** **2ABC** to fast forward/backward. Switches the fast forward/backward speed each time you press this key.
- Press **4REW** **5FWD** to slow forward/backward. Switches the slow playback speed each time you press this key.

**DVD Top Menu**

Returns to the DVD top menu.





## DVD Menu

Displays the DVD menu.

Turns the playback control on or off while playing VCD.



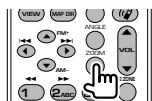
## SUBTITLE

Switches the subtitle language.



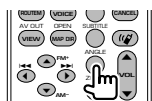
## ZOOM

Switches the zoom ratio each time you press this key.



## Picture Angle

Switches the picture angle each time you press this key.



## AUDIO

Switch Voice Language

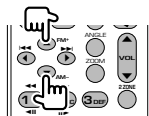
Switches the voice language each time you press this key.



## Radio (AUD mode)

### Band switching

Switches to bands received by the unit.



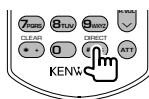
### Station selection

Switches to broadcast stations received by the unit.

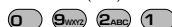


### Direct tuning

After pressing this key, use the keypad to specify the broadcast station you wish to receive.



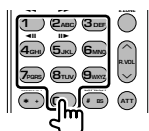
Example: 92.1MHz (FM)



Example: 810kHz (AM)



### Numeric keypad

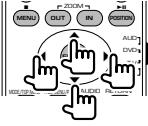


- To use preset tuning, press the number of a programmed broadcast station. (1 - 6)
- Press the direct tuning key first, then specify the frequency of the station to receive.

## NAVI (NAVI mode)

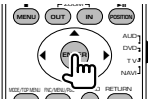
### Joystick

Scrolls the map, or moves the cursor.



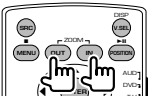
### ENTER

Performs the selected function.



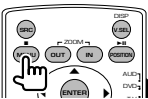
### ZOOM

Zooms in or out the navigation map.



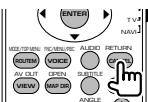
### MENU

Displays Main menu.



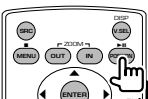
### CANCEL

Displays previous screen.



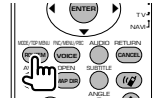
### POSITION

Displays the current position.



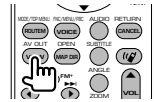
### ROUTEM

Displays Route Option menu.



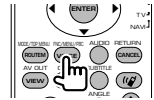
### VIEW

Switches between 2D and 3D map displays.



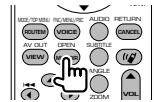
### VOICE

Plays Voice guidance.



### MAP DIR

Switches between the heading up navigation and north up navigation map displays.





# DVD Language Codes

Code	Language
aa	Afar
ab	Abkhazian
af	Afrikaans
am	Amharic
ar	Arabic
as	Assamese
ay	Aymara
az	Azerbaijani
ba	Bashkir
be	Byelorussian
bg	Bulgarian
bh	Bihari
bi	Bislama
bn	Bengali, Bangla
bo	Tibetan
br	Breton
ca	Catalan
co	Corsican
cs	Czech
cy	Welsh
da	Danish
de	German
dz	Bhutani
el	Greek
en	English
eo	Esperanto
es	Spanish
et	Estonian
eu	Basque
fa	Persian
fi	Finnish
fj	Fiji
fo	Faroese
fr	French
fy	Frisian
ga	Irish
gd	Scots Gaelic
gli	Galician
gn	Guarani
gu	Gujarati
ha	Hausa
he	Hebrew
hi	Hindi
hr	Croatian
hu	Hungarian
hy	Armenian
ia	Interlingua
ie	Interlingue
ik	Inupiak
id	Indonesian

Code	Language
is	Icelandic
it	Italian
ja	Japanese
jav	Javanese
ka	Georgian
kk	Kazakh
kl	Greenlandic
km	Cambodian
kn	Kannada
ko	Korean
ks	Kashmiri
ku	Kurdish
ky	Kirghiz
la	Latin
lb	Luxembourgish
ln	Lingala
lo	Laotian
lt	Lithuanian
lv	Latvian, Lettish
mg	Malagasy
mi	Maori
mk	Macedonian
ml	Malayalam
mn	Mongolian
mo	Moldavian
mr	Marathi
ms	Malay
mt	Maltese
my	Burmese
na	Nauru
ne	Nepali
nl	Dutch
no	Norwegian
oc	Occitan
om	(Afan) Oromo
or	Oriya
pa	Punjabi
pl	Polish
ps	Pashto, Pushto
pt	Portuguese
qu	Quechua
rm	Rhaeto-Romance
rn	Kirundi
ro	Romanian
ru	Russian
rw	Kinyarwanda
sa	Sanskrit
sd	Sindhi
sg	Sangho
sh	Serbo-Croatian

Code	Language
si	Singhalese
sk	Slovak
sl	Slovenian
sm	Samoan
sn	Shona
so	Somali
sq	Albanian
sr	Serbian
ss	Siswati
st	Sesotho
su	Sundanese
sv	Swedish
sw	Swahili
ta	Tamil
te	Telugu
tg	Tajik
th	Thai
ti	Tigrinya
tk	Turkmen
tl	Tagalog
tn	Setswana
to	Tongan
tr	Turkish
ts	Tsonga
tt	Tatar
tw	Twi
uk	Ukrainian
ur	Urdu
uz	Uzbek
vi	Vietnamese
vo	Volapuk
wo	Wolof
xh	Xhosa
yo	Yoruba
zh	Chinese
zu	Zulu



# Help? Troubleshooting

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

- !** • **Cannot set up the subwoofer.**
- **Cannot set up subwoofer phase.**
- **No output from the subwoofer.**
- **Cannot set up the low pass filter.**
- **Cannot set up the high pass filter.**
- ▶ Subwoofer is not set to On. <sup>☞</sup> <Audio Setup> (page 60)
- ▶ The Dual zone function is enabled. <sup>☞</sup> <Zone Control> (page 84)

- !** **Cannot set up the subwoofer phase.**
- ▶ Subwoofer is not set to On. <sup>☞</sup> <Audio Setup> (page 60)
- ▶ Low pass filter is set to Through. <sup>☞</sup> <Crossover Network Setup> (page 61)

- !** • **Cannot select the output destination of the subsource in the Dual zone.**
- **Cannot adjust the volume of the rear speakers.**
- ▶ The Dual zone function is disabled. <sup>☞</sup> <Zone Control> (page 84)

- !** **Cannot play audio files.**
- ▶ "CD Read" of <System Setup> (page 64) is set to "2".

- !** **Cannot Folder select.**
- ▶ The Scan play or Random play function is enabled.

- !** **Cannot perform Repeat play.**
- ▶ The PBC function is enabled.

- !** • **Cannot set up the equalizer.**
- **Cannot set up the crossover network.**
- ▶ The Dual zone function is enabled. <sup>☞</sup> <Zone Control> (page 84)

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

## General

- ?** **The Touch Sensor Tone doesn't sound.**
- ✓ The preout jack is being used.
- <sup>☞</sup> The Touch Sensor Tone can't be output from the preout jack.

## Tuner source

- ?** **Radio reception is poor.**
- ✓ The car antenna is not extended.
- <sup>☞</sup> Pull the antenna out all the way.
- ✓ The antenna control wire is not connected.
- <sup>☞</sup> Connect the wire correctly, referring to the section on <INSTALLATION MANUAL>.

## Disc source

- ?** **The specified disc does not play, but another one plays instead.**
- ✓ The specified CD is quite dirty.
- <sup>☞</sup> Clean the CD.
- ✓ The disc is loaded in a different slot from that specified.
- <sup>☞</sup> Eject the disc magazine and check the number for the specified disc.
- ✓ The disc is severely scratched.
- <sup>☞</sup> Try another disc instead.

## Audio file source

- ?** **The sound skips when an Audio file is being played.**
- ✓ The media is scratched or dirty.
- <sup>☞</sup> Clean the media, referring to the CD cleaning of the section on <Handling CDs> (page 6).
- ✓ The recording condition is bad.
- <sup>☞</sup> Record the media again or use another media.

---

## When the unit fails to operate correctly, the cause of the failure appears on the display.

### Protect :

Protective circuit has been activated because a speaker cord has shorted or it has come in contact with the car chassis.

- ➔ Wire or insulate the speaker cord as appropriate and then push the Reset button.

---

### Hot Error :

When the internal temperature of this unit rises to 60°C or more, the protection circuit is activated and you may not be able to operate the unit. At such times this message will appear.

- ➔ Use the unit again after reducing the temperature inside the vehicle.

---

### Hold Error :

Activation of the protective circuit when the temperature inside the disc changer is higher than 60 degrees Celsius stops the disc changer from operating. At such times this message will appear.

- ➔ Use when the temperature at the site where the disc changer has been fitted has dropped.

---

### Mecha Error :

The disc player is malfunctioning.

- ➔ Eject the disc and try inserting it again. Contact the Kenwood dealer if this indicator continues blinking or the disc cannot be ejected.

---

### Disc Error :

An unplayable disc is inserted.

---

### Read Error :

Disc is quite dirty.

- ➔ Clean the disc, referring to the section on <Handling CDs> (page 6).

Disc is upside down.

- ➔ Load the disc with the labeled side up.

---

### Region code Error :

The disc you wanted to play has a region code that cannot be played with this unit.

---

### Parental level Error:

The disc you wanted to play has a higher level than the parental level you set.

---

### Error 07-67:

The unit is not operating correctly due to some reason or other.

- ➔ Push the unit's Reset button. If the "Error 07-67" message does not disappear, see your nearest Kenwood dealer.

---

### No Device (USB device)/Disconnected (iPod):

The USB device/iPod is selected as a source although no USB device/iPod is connected.

- ➔ Change the source to any source other than USB/iPod. Connect an USB device/iPod, and change the source to USB/iPod again.

---

### No Music:

The connected USB device contains no playable audio file.

Media was played that doesn't have data recorded that the unit can play.

---

### USB Device Error!:

The connected USB device is rated a current capacity higher than the allowable limit.

- ➔ Check the USB device. Some trouble may have occurred to the connected USB device.
- ➔ Change the source to any source other than USB. Remove the USB device.

---

### Authorization Error:

Connection to the iPod has failed.

- ➔ Remove the iPod and then reconnect it. The unit does not support the iPod.
- ➔ Refer to <About iPod that can be connected to this unit> (page 7).

---

### Update your iPod:

The iPod's software is an older version which the unit can not support.

- ➔ Confirm that the software for the iPod is the latest version. Refer to <About iPod that can be connected to this unit> (page 7).

---

### Update your USB database:

The USB device is different from the previous one or the contained audio files are replaced.

- ➔ Update your database. Refer to <Function while display the Control Screen> of USB Device Control (page 36).

# Specifications

## Monitor section

### Picture Size

: 6.95 inches (diagonal) wide  
: 156.2 mm (W) x 82.4 mm (H)

### Display System

: Transparent TN LCD panel

### Drive System

: TFT active matrix system

### Number of Pixels

: 336,960 (480H x 234V x RGB)

### Effective Pixels

: 99.99 %

### Pixel Arrangement

: RGB striped arrangement

### Back Lighting

: Cold Cathode Fluorescent Tube

## DVD player section

### D/A Converter

: 24 bit

### Audio Decoder

: Linear PCM/ Dolby Digital/ dts/ MP3/ WMA/ AAC

### Video Decoder

: MPEG1/ MPEG2/ MPEG4 (DivX)

### Wow & Flutter

: Below Measurable Limit

### Frequency Response

Sampling frequency; 96 kHz : 20 – 44,000 Hz  
Sampling frequency; 48 kHz : 20 – 22,000 Hz  
Sampling frequency; 44.1 kHz : 20 – 20,000 Hz

### Total Harmonic Distortion

: 0.008 % (1 kHz)

### S/N Ratio (dB)

: 98 dB (DVD-Video 96 kHz)

### Dynamic Range

: 98 dB (DVD-Video 96 kHz)

### Disc Format

: DVD-Video/ VIDEO-CD/ CD-DA

### Sampling Frequency

: 44.1/ 48/ 96 kHz

### Quantifying Bit Number

: 16/ 20/ 24 bit

## USB interface section

### USB Standard

: USB 1.1/ 2.0

### File System

: FAT 16/ 32

### Maximum Power Supply Current

: 500 mA

### D/A Converter

: 24 Bit

### Audio Decoder

: MP3/ WMA/ AAC

## FM tuner section

### Frequency Range (50 kHz)

: 87.5 MHz – 108.0 MHz

### Usable Sensitivity (S/N : 26 dB)

: 0.8  $\mu$ V/ 75  $\Omega$

### Quieting Sensitivity (S/N : 46 dB)

: 1.6  $\mu$ V/ 75  $\Omega$

### Frequency Response ( $\pm$ 3.0 dB)

: 30 Hz – 15 kHz

### S/N Ratio (dB)

: 65 dB (MONO)

### Selectivity ( $\pm$ 400 kHz)

:  $\geq$  80 dB

### Stereo Separation

: 35 dB (1 kHz)

## AM tuner section

### Frequency Range (9 kHz)

LW: 153 kHz – 281 kHz  
MW: 531 kHz – 1611 kHz

### Usable Sensitivity

LW: 35  $\mu$ V  
MW: 50  $\mu$ V



## Video section

Color System of External Video Input

: NTSC/ PAL

External Video Input Level (RCA jack)

: 1 V<sub>p-p</sub>/ 75 Ω

External Audio Max Input Level (RCA jack)

: 2 V/ 25 kΩ

Video Output Level (RCA jacks)

: 1 V<sub>p-p</sub>/ 75 Ω

Audio Output Level (RCA jacks)

: 1.2 V/ 10 kΩ

## Audio section

Maximum Power (Front & Rear)

: 50 W x 4

Full Bandwidth Power (Front & Rear)

(PWR DIN45324, +B=14.4v)

: 30 W x 4

Preout Level (V)

: 2 V/ 10 kΩ

Preout Impedance

: ≤600 Ω

Speaker Impedance

: 4 – 8 Ω

Tone action

Bass : 100 Hz ± 8 dB

Middle : 1 kHz ± 8 dB

Treble : 10 kHz ± 8 dB

## External SW

Maximum Power Supply Current

: 500 mA

## Navigation section

Receiver

: High-sensitivity GPS receiver

Reception Frequency

: 1575.42 MHz (C/A code)

Acquisition Times

Cold : < 38 seconds

Factory Reset : < 45 seconds

(On average for a stationary receiver with a clear view of the sky)

Accuracy

Position : < 10 meters typical

Velocity : 0.05 m/sec. RMS

Position Method

: GPS

Antenna

: External GPS antenna

## General

Operating voltage

: 14.4 V (11 – 16 V allowable)

Current Consumption

: 15 A

Dimensions (W × H × D)

: 182 × 112 × 163 mm

Operational Temperature Range

: -10 °C – +60 °C

Storage Temperature Range

: -20 °C – +85 °C

Weight

: 2.5 kg

Specifications subject to change without notice.

Although the effective pixels for the liquid crystal panel is given as 99.99% or more, 0.01% of pixels may not light or may light incorrectly.

### **About DivX**

DivX is a popular media technology created by DivX, Inc. DivX media Files contain highly compressed video with high visual quality that maintains a relatively small file size. DivX files can also include advanced media features like menus, subtitles, and alternate audio tracks. Many DivX media files are available for download online, and you can create your own using your personal content and easy-to-use tools from DivX.com.

### **About DivX Certified**

DivX Certified products are officially tested by the creators of DivX and guaranteed to play all versions of DivX video, including DivX 6. Certified products qualify for one of several DivX Profiles that designate the type of video the product supports, from compact portable video to high-definition video.

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

**CLASS 1  
LASER PRODUCT**

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

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



Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste. Old electrical and electronic equipment should be recycled at a facility capable of handling these items and their waste byproducts. Contact your local authority for details in locating a recycle facility nearest to you. Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

This Product is not installed by the manufacturer of a vehicle on the production line, nor by the professional importer of a vehicle into an EU Member State.

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