

# KENWOOD

## DDX719 DDX7049BT DDX419 DDX4049BT DDX319 DDX3049

MONITOR WITH DVD RECEIVER  
**INSTRUCTION MANUAL**

JVC KENWOOD Corporation



Take the time to read through this instruction manual.

Familiarity with installation and operation procedures will help you obtain the best performance from your new DVD Receiver.

### For your records

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

Model DDX719/DDX7049BT/DDX419/DDX4049BT/DDX319/DDX3049 Serial number \_\_\_\_\_

### US Residence Only

**Register Online**

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

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(Only for DDX719/DDX7049BT/DDX419/DDX4049BT)

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# Before use

## ⚠ WARNINGS:

### (To prevent accidents and damage)

- DO NOT install any unit or wire any cable in a location where;
  - it may obstruct the steering wheel and gearshift lever operations.
  - it may obstruct the operation of safety devices such as air bags.
  - it may obstruct visibility.
- DO NOT operate the unit while driving. If you need to operate the unit while driving, be sure to look around carefully.
- The driver must not watch the monitor while driving.

## ⚠ Cautions on the monitor:

- The monitor built in this unit has been produced with high precision, but it may have some ineffective dots. This is inevitable and is not considered defective.
- Do not expose the monitor to direct sunlight.
- Do not operate the touch panel using a ball-point pen or similar tool with the sharp tip.  
Press the buttons on the touch panel with your finger directly (if you are wearing a glove, take it off).
- When the temperature is very cold or very hot...
  - Chemical changes occur inside, causing malfunction.
  - Pictures may not appear clearly or may move slowly. Pictures may not be synchronized with the sound or picture quality may decline in such environments.

### For safety...

- Do not raise the volume level too much, as this will make driving dangerous by blocking outside sounds, and may cause hearing loss.
- Stop the car before performing any complicated operations.

## Temperature inside the car...

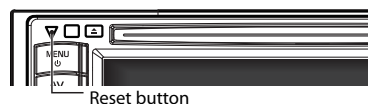
If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

## ■ How to reset your unit

### DDX719/DDX7049BT



### DDX419/DDX4049BT/DDX319/DDX3049



If the unit fails to operate properly, press the Reset button. The unit returns to factory settings when the Reset button is pressed (except the registered Bluetooth devices).

### How to read this manual:

- Illustrations of DDX719 are mainly used for explanation.
- This manual mainly explains operations using the buttons on the monitor panel and touch panel. For operations using the remote controller (RC-DV340; supplied only for DDX7049BTX/DDX4049BT/DDX3049), see page 63.
- < > indicates the variable screens/menus/operations/settings that appear on the touch panel.
- [ ] indicates the buttons on the touch panel.
- **Indication language:** English indications are used for the purpose of explanation. You can select the indication language from the <Setup> menu. (see page 51)

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.

## FCC WARNING

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

## FCC NOTE

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

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

## DDX719X/DDX419/DDX319:

### ⚠ CAUTION

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

JVC KENWOOD Corporation  
2967-3, ISHIKAWA-MACHI,  
HACHIOJI-SHI, TOKYO, JAPAN

THIS PRODUCT COMPLIES WITH DHHS  
RULES 21CFR SUBCHAPTER J IN EFFECT  
AT DATE OF MANUFACTURE.

Location : Top Panel

## DDX7049BT/DDX4049BT/DDX3049:

### The marking of products using lasers

**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.

## DDX719/DDX7049BT/DDX419/ DDX4049BT:

### About KS-UBT1 (USB Bluetooth Adapter)

The USB Bluetooth Adapter is attached to this unit when shipped from the factory. When the adapter is removed, store it in a safe place.

# INTRODUCTIONS

## Initial Settings

### Initial setup

When you power on the unit for the first time or reset the unit, the initial setting screen appears.

- You can also change the settings on the <Setup> screen. (☞ page 48)

1



<b>Language</b>	Select the text language used for on-screen information. (☞ page 51)
<b>Angle</b> Only for DDX719/DDX7049BT	Adjust the panel angle. (☞ the right column)
<b>AV Input</b>	Select an external component to play — <AV-IN2> or <iPod>. (☞ page 50)
<b>R-CAM Interrupt</b>	Select <ON> when connecting the rear view camera. (☞ page 50)
<b>Panel Color</b>	Select the color of the buttons on the monitor panel. (☞ page 43)

### 2 Finish the procedure.



### Adjusting the panel angle

(Only for DDX719/DDX7049BT)

You can change the panel angle.

#### 1 Select an angle (0 – 6).



To set the current position as the power off position, select <Memory>.

## Updating the system

You can update the system by connecting a USB device containing the update file.

### 1 Create an update file, copy it to a USB device, and connect it to the unit.

To connect a USB device, see page 79.

### 2 On <Top Menu>:



### 3



### 4



It may take a while.

If the update has been complete successfully, "Update Completed" appears. Reset the unit.

- \* If the update has failed, turn the power off and then on, and retry the update.
- \* Even if you have turned off the power during update, you can restart the update after the power is turned on. The update will be performed from the beginning.

## Activating the security function

You can activate the security indicator to protect your receiver system against theft.

1 On <Top Menu>:



2

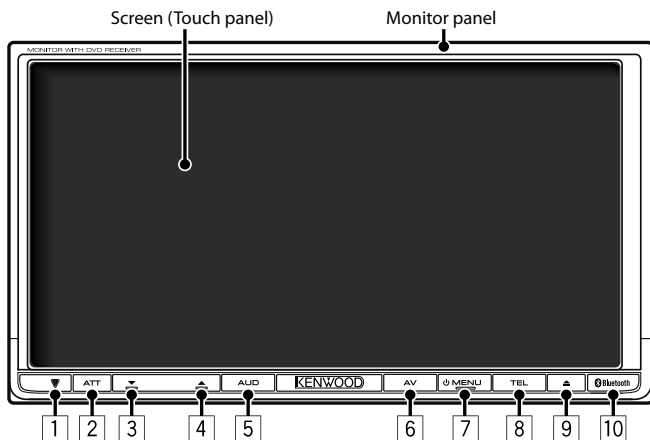






The security indicator on the monitor panel flashes when the vehicle ignition is off.

**To cancel**, select <OFF>.

# Component names and functions

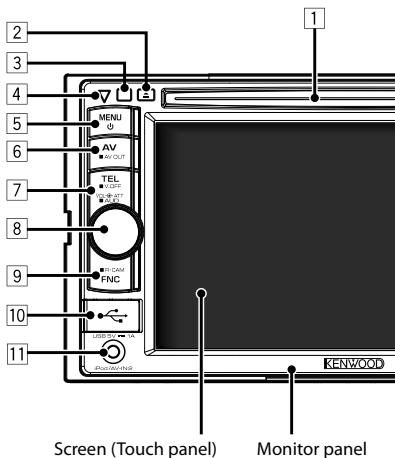
DDX719/DDX7049BT



- 1 Reset button/Power indicator/Security indicator
  - Resets the unit. (☞ page 3)
  - Lights up while the unit is turned on.
  - Flashes when the security function is activated. (☞ page 7)
- 2 ATT button (Press)
  - Attenuates the sound.
  - V.OFF button (Hold)
  - Turns off/on the screen. (☞ page 11)
- 3 Volume  (down) button (☞ page 11)
  - Decreases the volume.
- 4 Volume  (up) button (☞ page 11)
  - Increases the volume.
- 5 AUD button (Press)
  - Displays the **<Equalizer>** screen. (☞ page 41)
  - R-CAM button (Hold)
  - Displays the picture from the rear view camera.
- 6 AV button (Press)
  - Displays the current source screen.
  - AV OUT button (Hold)
  - Selects the AV source for external monitor or amplifier.
- 7 MENU/ button
  - Turns off the power. (Hold)
  - Turns on the power. (Press)
  - Displays the **<Top Menu>** screen. (Press) (☞ page 12)
- 8 TEL button (Press)
  - Displays the **<Handsfree>** screen. (☞ page 54)
  - FNC button (Hold)
  - Displays the source control screen. (☞ page 12)
- 9  (Eject) button
  - Ejects the disc (Tilts the monitor panel fully).
  - Opens/Closes the monitor panel.
- 10 Remote sensor



## DDX419/DDX4049BT/DDX319/DDX3049



- 1 Loading slot
- 2 ▲ (Eject) button  
Ejects the disc.
- 3 Remote sensor
- 4 Reset button/Power indicator/Security indicator
- Resets the unit. (☞ page 3)
  - Lights up while the unit is turned on.
  - Flashes when the security function is activated. (☞ page 7)
- 5 MENU/⏻ button
- Turns off the power. (Hold)
  - Turns on the power. (Press)
  - Displays the <Top Menu> screen. (Press) (☞ page 12)

### Caution on volume setting:

Digital devices (CD/USB) produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

- 6 AV/AV OUT button
- Displays the current source screen. (Press)
  - Selects the AV source for external monitor or amplifier. (Hold)

### 7 For DDX419/DDX4049BT:

TEL/V.OFF button

- Displays the <Handsfree> screen. (Press) (☞ page 54)
- Turns off/on the screen. (Hold) (☞ page 11)

### For DDX319/DDX3049:

AUD/V.OFF button

- Displays the <Equalizer> screen. (Press) (☞ page 41)
- Turns off/on the screen. (Hold) (☞ page 11)

### 8 VOL/ATT knob (☞ page 11)

- Attenuates the sound. (Press)
- Adjusts the audio volume. (Turn)

### For DDX419/DDX4049BT only:

AUD button

- Displays the <Equalizer> screen. (Hold) (☞ page 41)

### 9 FNC/R-CAM button

- Displays the source control screen. (Press) (☞ page 12)
- Displays the picture from the rear view camera. (Hold)

### 10 USB input terminal

### 11 iPod/AV-IN2 input terminal

You can change the color of the buttons on the monitor panel. (☞ page 43)

# Setting the clock

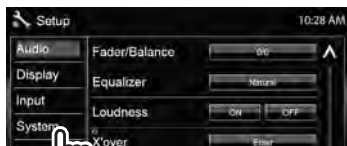
## 1 Display <Top Menu> screen.



## 2 Display <Setup> screen.



## 3



## 4 Set the clock time.



<NAV>*	Synchronizes the clock time with the connected navigation unit.
<Radio Data System>	Synchronizes the clock time with FM RBDS.
<OFF>	Sets the clock manually. (ⓘ below)



① Adjust the hour

② Adjust the minute

[Reset]: Sets the minute to "00."

Example:

3:00 - 3:29 → 3:00

3:30 - 3:59 → 4:00

## 5 Finish the procedure.



\* Appears only when the navigation unit is connected.

# Common operations

## Turning on the power

DDX719/  
DDX7049BT



DDX419/  
DDX4049BT/  
DDX319/DDX3049

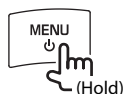


## Turning off the power

DDX719/  
DDX7049BT

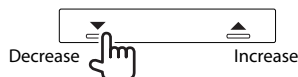


DDX419/  
DDX4049BT/  
DDX319/DDX3049



## Adjusting the volume

*To adjust the volume* (00 to 35)  
DDX719/DDX7049BT



DDX419/DDX4049BT/DDX319/DDX3049



*To attenuate the sound*

DDX719/  
DDX7049BT



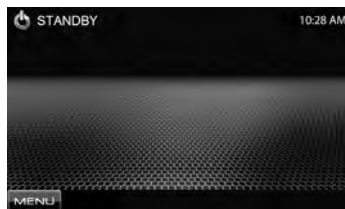
DDX419/  
DDX4049BT/  
DDX319/DDX3049



The ATT indicator lights up.

**To cancel the attenuation**, press the ATT button (DDX719/DDX7049BT) or VOL/ATT knob (DDX419/DDX4049BT/DDX319/DDX3049) again.

## Putting the unit in standby

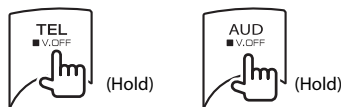


## Turning off the screen

DDX719/DDX7049BT



DDX419/DDX4049BT DDX319/DDX3049



The screen is turned off.

**To turn on the screen**, press MENU/⏻.

# Switching screens

## Source control screen



### <Top Menu>

- Changes the AV source.
- Displays the <Setup> screen.

You can select 3 items to be displayed in this area. (page 13)




page 11

### <Setup>

Changes the detailed settings.

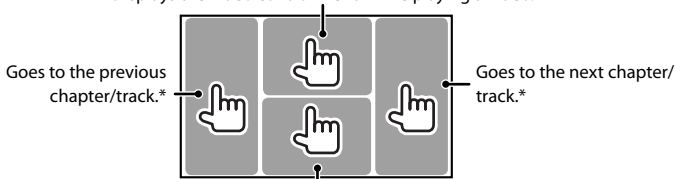
Changes the page



Press  to return to the previous screen.

## Touch screen operation

Displays the video control menu while playing a video.



Displays the source control screen while playing a video.

- The operation buttons disappear by touching the screen or when no operation is done for about 5 seconds.

\* Not available for video from an external component and rear view camera.

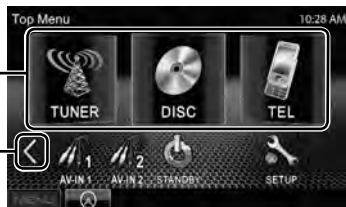
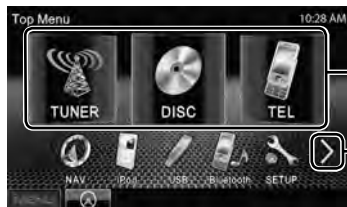
# AV SOURCE OPERATIONS

## Selecting the playback source

### DDX719/DDX419/DDX319



### DDX7049BT/DDX4049BT/DDX3049



<b>NAV</b> <sup>*3</sup> (🔊 page 40)	Displays the navigation screen when a navigation unit is connected.
<b>DISC</b> (🔊 page 15)	Plays a disc.
<b>TEL</b> <sup>*4</sup> (🔊 page 57)	Displays the phone control screen.
<b>USB</b> (🔊 page 22)	Plays files on a USB device.
<b>iPod</b> <sup>*5</sup> (🔊 page 24)	Plays an iPod/iPhone.
<b>TUNER</b> (🔊 page 29)	Switches to the radio broadcast.
<b>AV-IN 1/AV-IN 2</b> <sup>*5</sup> (🔊 page 39)	Switches to an external component connected to AV-IN input terminal.
<b>Bluetooth</b> <sup>*4</sup> (🔊 page 61)	Plays a Bluetooth audio player.
<b>PANDORA</b> <sup>*6</sup> (🔊 page 27)	Switches to the PANDORA® internet radio broadcast.
<b>SiriusXM</b> <sup>*6</sup> (🔊 page 32)	Listen to SiriusXM™ channels.

\*1 You can select 3 items to be displayed in this area. (🔊 page 49)

\*2 Switches between the previous and next pages.

\*3 Only for DDX7049BT/DDX4049BT/DDX3049. When no navigation unit is connected, "No Navigation" appears.

\*4 Only for DDX719/DDX7049BT/DDX419/DDX4049BT.

\*5 Select an appropriate input setting on <AV Input>. (🔊 page 50)

\*6 Only for DDX719/DDX419/DDX319.

## Displaying the source control screen

On each playback screen, perform the following:



or

**DDX719/DDX7049BT**



**DDX419/DDX4049BT/DDX319/  
DDX3049**



- For DDX719/DDX7049BT, pressing and holding TEL hides the operation buttons. For DDX419/DDX4049BT/DDX319/DDX3049, pressing FNC/R-CAM hides the operation buttons.
- The operation buttons disappear by touching the screen or when no operation is done for about 5 seconds.

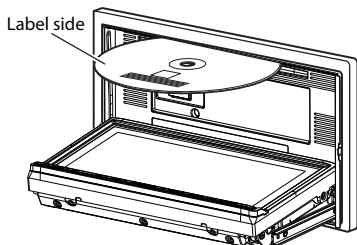
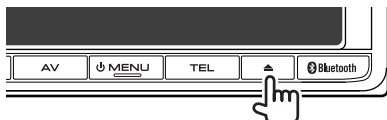
# Disc operations

## Playing a disc

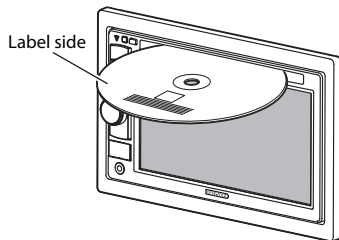
- If a disc does not have a disc menu, all tracks on it will be played repeatedly until you change the source or eject the disc.

### ■ Inserting a disc

#### DDX719/DDX7049BT



#### DDX419/DDX4049BT/DDX319/DDX3049



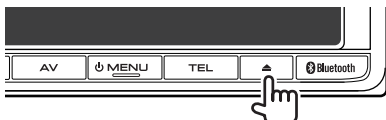
The source changes to **"DISC"** and playback starts.

- The IN indicator lights up while a disc is inserted.

- If "⊘" appears on the screen, the unit cannot accept the operation you have tried to do.
  - In some cases, without showing "⊘," operations will not be accepted.
- When playing back a multi-channel encoded disc, the multi-channel signals are downmixed to stereo.

### ■ To eject a disc

#### DDX719/DDX7049BT



#### DDX419/DDX4049BT/DDX319/DDX3049



- You can eject a disc when playing another AV source.
- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust.

**When removing a disc,** pull it horizontally.

### *Closing the monitor panel (For DDX719/DDX7049BT)*

After removing the disc, press the eject button again. The monitor panel closes.

## Playable disc types

Disc type	Recording format, file type, etc	Playable
DVD	DVD-Video *1 Region Code: • For DDX719/DDX419/DDX319: 1 • For DDX7049BT/DDX4049BT/DDX3049: 4	✓OK
	DVD-Audio/DVD-ROM	✗NO
DVD Recordable/ Rewritable (DVD-R/-RW *2, +R/+RW *3) • DVD Video: UDF bridge • DVD-VR • DivX *5/MPEG1/MPEG2/ JPEG/MP3/WMA/WAV/ AAC: ISO 9660 level 1, level 2, Romeo, Joliet	DVD-Video	✓OK
	DVD-VR *4	
	DivX *5/MPEG1/MPEG2	
	JPEG	
	MP3/WMA/WAV/AAC	✗NO
MPEG4/DVD+VR/DVD-RAM		
Dual Disc	DVD side	✓OK
	Non-DVD side	✗NO
CD/VCD	DTS-CD/Audio CD/CD Text (CD-DA)	✓OK
	VCD (Video CD)	
	SVCD (Super Video CD)/CD-ROM/CD-I (CD-I Ready)	✗NO
CD Recordable/ Rewritable (CD-R/-RW) • ISO 9660 level 1, level 2, Romeo, Joliet	CD-DA	✓OK
	VCD (Video CD)	
	DivX *5/MPEG1/MPEG2	
	JPEG	
	MP3/WMA/WAV/AAC	
	MPEG4	✗NO

\*1 If you insert a DVD Video disc of an incorrect Region Code, "Region code error" appears on the screen.

\*2 DVD-R recorded in multi-border format is also playable (except for dual layer discs). DVD-RW dual layer discs are not playable.

\*3 It is possible to play back finalized +R/+RW (Video format only) discs. "DVD" is selected as its disc type when a +R/+RW disc is loaded. +RW double layer discs are not playable.

\*4 This unit cannot play back contents protected with CPRM (Content Protection for Recordable Media).

\*5 Playable only for DDX7049BT/DDX4049BT/DDX3049.

### Caution for DualDisc playback

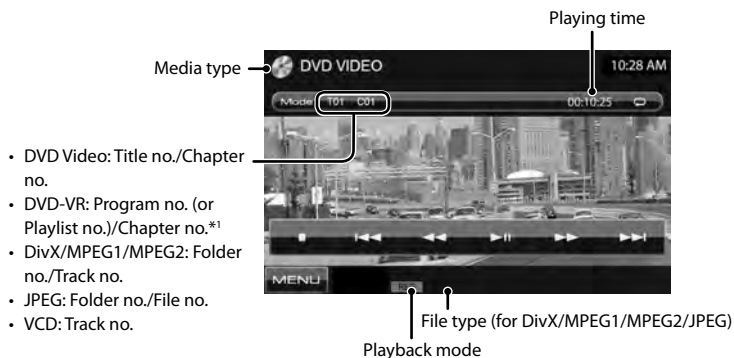
The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.








## Playback operations



To display the source control screen,  page 14.

### For DVD/DVD-VR/VCD/DivX/MPEG1/MPEG2/JPEG



- DVD Video: Title no./Chapter no.
- DVD-VR: Program no. (or Playlist no.)/Chapter no.\*1
- DivX/MPEG1/MPEG2: Folder no./Track no.
- JPEG: Folder no./File no.
- VCD: Track no.


	Selects playback mode. (  page 20)
	Starts/Pauses playback.
	Stops playback.
	<ul style="list-style-type: none"> <li>• Selects chapter/track. (Press)</li> <li>• Reverse/forward search.*4 (Hold)</li> </ul>

	<ul style="list-style-type: none"> <li>• Reverse/forward search during playback.*4</li> <li>• Plays back in slow-motion during pause.</li> </ul>
<b>[Mode]</b> *5	Changes the settings for disc playback. (  page 21)
<b>[MENU]</b>	Displays <Top Menu> screen.

- For DivX/MPEG1/MPEG2/JPEG, the following buttons also appear:

	Selects folder.
---	-----------------

	Displays folder/track list. (  page 18)
---	--

\*1 To display the Original Program/Playlist screen,  page 19.

\*2 Does not appear for DVD/DVD-VR/JPEG.

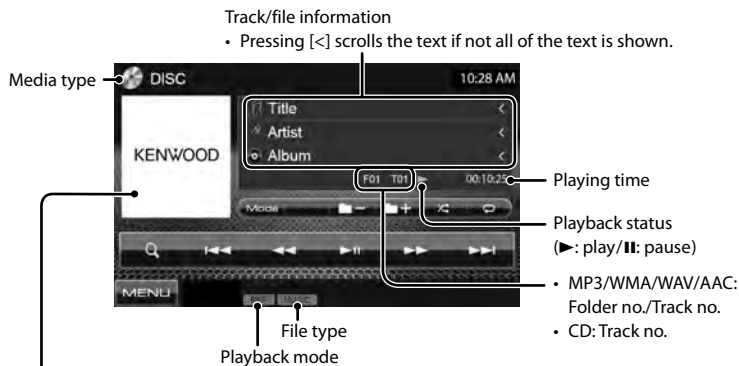
\*3 Appears only for DVD/DVD-VR/VCD.

\*4 Search speed varies depending on the type of disc or file.

\*5 Does not appear for VCD.

To display the source control screen, page 14.

### For CD/MP3/WMA/WAV/AAC



While playing, the jacket picture is shown if the file has the tag data including the jacket picture.

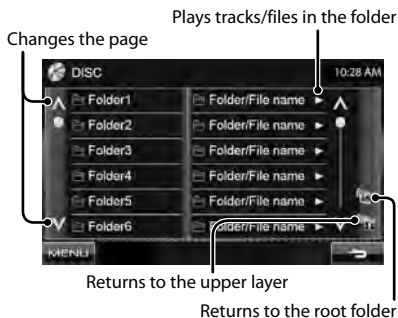
	Selects playback mode. ( page 20)
*1	Displays folder/track list. ( below)
	Starts/Pauses playback.
*1	Selects folder.

	Selects track.
	Reverse/forward search.*2
<b>[Mode]</b> *1	Changes the settings for disc playback. ( page 21)
<b>[MENU]</b>	Displays <Top Menu> screen.

\*1 Does not appear for CD.

\*2 Search speed varies depending on the type of disc or file.

### Selecting folder/track on the list



#### Playing Recordable/Rewritable discs

- This unit can recognize a total of 5000 files and 250 folders (a maximum of 999 files per folder).
- Use only "finalized" discs.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some discs or files may not be played back due to their characteristics or recording conditions.

## ■ Video menu operations

You can display the video menu screen while watching the playback pictures on the screen.

- Available items on the screen differ depending on the types of the loaded disc and playback files.
- The operation buttons disappear by touching the screen or when no operation is done for about 5 seconds.



- The screen for MPEG1/MPEG2 differs from the above.



<b>[Audio]</b>	Selects the audio type. <ul style="list-style-type: none"> <li>• For DVD-VR: Selects the audio channel (ST: stereo, L: left, R: right).</li> </ul>
<b>[Subtitle]</b>	Selects the subtitle type.
<b>[Angle]</b>	Selects view angle.
<b>[MENU]</b>	Displays the disc menu (DVD)/playlist (DVD-VR).
<b>[T MENU]</b>	Displays the disc menu (DVD)/original program (DVD-VR).
<b>[CUR]</b>	Displays the menu/playlist/original program item selecting screen. <ul style="list-style-type: none"> <li>• <b>[▲]</b> <b>[▼]</b> <b>[◀]</b> <b>[▶]</b>: Selects an item.           <ul style="list-style-type: none"> <li>– For DivX only</li> <li><b>[◀]</b> <b>[▶]</b>: Skips back or forward by about 5 minutes.</li> </ul> </li> <li>• <b>[ENTER]</b>: Confirms the selection.</li> <li>• <b>[RETURN]</b>: Returns to the previous screen.</li> </ul>
<b>[Highlight]</b>	Switches to the direct menu selection mode. Press the target item to select.
<b>[Picture Adjust]</b>	Displays picture adjustment screen. (ⓘ page 45)
<b>[Aspect]</b>	Selects aspect ratio. (ⓘ page 46)
<b>[ZOOM]</b>	Displays the picture size selecting screen. (ⓘ page 46)

## Only for VCD

1



2



Direct selecting buttons (Ⓝ below)

<b>[Audio]</b>	Selects the audio channel (ST: stereo, L: left, R: right).
<b>[Return]</b>	Displays the previous screen or the menu.
<b>[MENU]</b>	Displays the disc menu.
<b>[Picture Adjust]</b>	Displays picture adjustment screen. (Ⓝ page 45)
<b>[Aspect]</b>	Selects aspect ratio. (Ⓝ page 46)
<b>[ZOOM]</b>	Displays the picture size selecting screen. (Ⓝ page 46)
<b>[Direct]</b>	Displays/hides the direct selecting buttons. (Ⓝ below)

- To select a track directly



- To switch between chapter/track entry and title/folder entry, press **[Direct/CLR]**.
- When you enter a wrong number, press **[Direct/CLR]** to delete the last entry.

- To deactivate the PBC function, press **[■]** then the direct selecting buttons to select a track number.

## Selecting playback mode

For DVD/DVD-VR



Selects Repeat playback mode

For VCD (without PBC)/CD/DivX/MPEG1/MPEG2/MP3/WMA/WAV/AAC



Selects Random playback mode\*

Selects Repeat playback mode\*




- \* You cannot activate the repeat mode and the random mode at the same time.

- Each time you press the button, the playback mode changes. (The corresponding indicator lights up.)
  - Available items differ depending on the types of loaded disc and playback file.

Indicator	Playback mode
<b>C-REP</b>	Repeats current chapter.
<b>T-REP</b>	Repeats current title/program.
<b>REP</b>	Repeats current track.
<b>FO-REP</b>	Repeats all tracks of the current folder.
<b>RDM</b>	Randomly plays all tracks.
<b>FO-RDM</b>	Randomly plays all tracks of current folder, then tracks of next folders.

**To cancel**, press the button repeatedly until the indicator disappears.

## Settings for disc playback

Disc Setup items	Selectable setting/item	Initial: <u>Underlined</u>
For DVD/DVD-VR	<b>Menu Language</b>	Select the initial disc menu language; Initial <b>English</b> (Ⓜ page 70).
	<b>Subtitle Language</b>	Select the initial subtitle language or erase the subtitle ( <b>OFF</b> ); Initial <b>English</b> (Ⓜ page 70). • Initial for DDX7049BT/DDX4049BT/DDX3049: <b>English</b> , for DDX719/DDX419/DDX319: <b>OFF</b>
	<b>Audio Language</b>	Select the initial audio language; Initial <b>English</b> (Ⓜ page 70).
	<b>Down Mix</b>	When playing back a multi-channel disc, this setting affects the signals reproduced through the front and/or rear speakers. ◆ <b>Dolby Surround</b> : Select this to enjoy multi-channel surround audio with Dolby Surround. ◆ <b>Stereo</b> : Normally select this.
	<b>Dynamic Range Control</b>	You can change the dynamic range while playing Dolby Digital software. ◆ <b>Wide</b> : Select this to enjoy a powerful sound at a low volume level with its full dynamic range. ◆ <b>Normal</b> : Select this to reduce the dynamic range a little. ◆ <b>Dialog</b> : Select this to reproduce the movie dialog more clearly.
For discs except VCD/CD	<b>Screen Ratio</b>	Select the monitor type to watch a wide screen picture on the external monitor. ◆ <b>16:9</b>  ◆ <b>4:3 LB (Letterbox)</b>  ◆ <b>4:3 PS (PanScan)</b> 
For discs containing audio/video/picture files	<b>File Type</b>	Select the playback file type when a disc contains different types of files. ◆ <b>Audio</b> : Plays back audio files. ◆ <b>Still Image</b> : Plays back JPEG files. ◆ <b>Video</b> : Plays back DivX/MPEG1/MPEG2 files. ◆ <b>Audio&amp;Video</b> : Plays back audio files and DivX/MPEG1/MPEG2 files. • For playable file types, Ⓜ page 16. • If the disc contains no files of the selected type, the existing files are played in the following order: audio, video, then still image.

# USB operations

## Playing a USB device

- This unit can play JPEG/DivX/MPEG1/MPEG2/MP3/WMA/WAV/AAC files stored in a USB mass storage class device.
- This unit can recognize a total of 5 000 files and 250 folders (a maximum of 999 files per folder).
- Make sure all important data has been backed up to avoid losing the data.

### ■ Connecting a USB device

You can connect a USB mass storage class device such as a USB memory, Digital Audio Player etc. to the unit.

- You cannot connect a computer or portable HDD to the USB input terminal.
- To connect a USB device, see page 79.

### **When a USB device is connected...**

The source changes to **"USB"** and playback starts.

- All tracks in the USB device will be played repeatedly until you change the source.

### **To disconnect the USB device safely**

Press [▲], then disconnect the USB device after "No Device" appears.

### **Cautions:**

- This unit may not play back files in a USB device properly when using a USB extension cord.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 500 mA.
- This unit may not recognize a memory card inserted into the USB card reader.
- When connecting with a USB cable, use the USB 2.0 cable.
- The maximum number of characters for:
  - Folder names : 50 characters
  - File names : 50 characters
- Avoid using the USB device if it might affect driving safety.
- Do not pull out and connect the USB device repeatedly while "Reading..." is shown on the screen.
- Electrostatic shock at connecting a USB device may cause abnormal playback of the device. In this case, disconnect the USB device then reset this unit and the USB device.
- Operation and power supply may not work as intended for some USB devices.
- Do not leave a USB device in the car, or expose to direct sunlight or high temperature to avoid deformation or damage to the device.

## To display the source control screen, page 14.

While playing, the jacket picture is shown if the file has the tag data including the jacket picture.







Track/file information (for MP3/WMA/WAV/AAC)








- Pressing [ < ] scrolls the text if not all of the text is shown.

Playing time  
Playback status  
(▶: play/||: pause)

Playback mode  
File type

- MP3/WMA/WAV/AAC: Folder no./Track no.
- JPEG: Folder no./File no.

	Selects repeat playback mode. *1*2 • <b>REP</b> : Repeats current track. • <b>FO-REP</b> : Repeats all tracks of the current folder.
	Selects random playback mode. *1*2 • <b>RDM</b> : Randomly plays all tracks. • <b>FO-RDM</b> : Randomly plays all tracks of the folder.
	Press this button before disconnecting. (  page 22)

	Displays folder/track list. (  page 18)
	Starts/Pauses playback.
	Selects track.
	Reverse/forward search.*3
	Selects folder.
<b>[Mode]</b>	Changes the settings for file playback. (  below)
<b>[MENU]</b>	Displays <Top Menu> screen.

- Available items differ depending on the types of playback file.

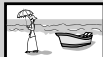

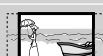
\*1 To cancel random or repeat mode, press the button repeatedly until the indicator disappears.

\*2 You cannot activate the repeat mode and the random mode at the same time.

\*3 Search speed varies depending on the type of disc or file.

### Setting <Screen Ratio>

Select the monitor type to watch a wide screen picture on the external monitor.

<b>16:9</b>	
<b>4:3 LB</b> (Letterbox)	
<b>4:3 PS</b> (PanScan)	

### Setting <File Type>

<b>Audio</b>	Plays back audio files.
<b>Still Image</b>	Plays back JPEG files.
<b>Video</b>	Plays back DivX/MPEG1/MPEG2 files.
<b>Audio&amp;Video</b>	Plays back audio files and DivX/MPEG1/MPEG2 files.

- If the USB device contains no files of the selected type, the existing files are played in the following order: audio, video, then still image.

### Setting <Drive Select>

Press [**Next**] to switch to another USB device when multiple USB devices are connected via a USB hub or the like.

# Listening to the iPod/iPhone device

## ■ Preparation

- Connect iPod/iPhone. (☞ page 79)
- Use the following cables:
  - **To watch the video and to listen to the music (analog):** USB Audio and Video cable for iPod/iPhone—KCA-iP22F/KCA-iP202 (optional accessory)
  - **To listen to the music (digital):** USB Audio cable for iPod/iPhone—KCA-iP102 (optional accessory)
- Do not use extension cables.

iPod/iPhone that can be connected to this unit:

Made for

- iPod with video
- iPod classic
- iPod nano (6th Generation)
- iPod nano (5th Generation)
- iPod nano (4th Generation)
- iPod nano (3rd Generation)
- iPod nano (2nd Generation)
- iPod nano (1st Generation)
- iPod touch (4th Generation)
- iPod touch (3rd Generation)
- iPod touch (2nd Generation)
- iPod touch (1st Generation)
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone

## Settings for iPod playback

When the source is "iPod"...

1



2



<b>Audiobooks</b>	Selects the speed of audio books.
-------------------	-----------------------------------

<b>Artwork</b>	Shows/hides the iPod artwork.
----------------	-------------------------------

## Setting <AV Input>

You can change the setting only when the unit is in standby.

1

On <Top Menu>:



2



3





## iPod/iPhone playback operations

To display the source control screen, [☞](#) page 14.

- Select "iPod" as the source. ([☞](#) page 13)
- The operations explained in this manual are under the condition when the unit is selected for controlling playback. ([☞](#) below)

While playing, Artwork (the picture displayed on the screen of iPod/iPhone) is shown if the song contains the Artwork.\*1

Playback mode

<b>[MENU]</b>	Displays <Top Menu> screen.
<b>[Mode]</b>	Changes the settings for iPod playback. ( <a href="#">☞</a> page 24)
<b>[▶ II]</b>	Starts/Pauses playback.
<b>[↺]</b>	Selects Repeat playback mode.*2 <ul style="list-style-type: none"> <li>• <b>REP</b>: Functions the same as "Repeat One."</li> </ul>
<b>[X]</b>	Selects Random playback mode.*2 <ul style="list-style-type: none"> <li>• <b>RDM</b>: Functions the same as "Shuffle Songs."</li> <li>• <b>A-RDM</b>: Functions the same as "Shuffle Albums."</li> </ul>

Song/video information

- Pressing [←] scrolls the text if not all of the text is shown.

Playing time

Playback status  
▶: play/II: pause

<b>[Q]</b>	Displays the Music/Video menu on the iPod/iPhone. ( <a href="#">☞</a> page 26)
<b>[ ◀◀]</b>	Selects a track/video.*3
<b>[▶▶ ]</b>	
<b>[◀◀]</b>	Reverse/search.
<b>[▶▶]</b>	Forward/search.
<b>[APP]</b>	Select iPod to play back using iPod/iPhone—iPod control mode.*4 ( <a href="#">☞</a> page 26)

\*1 For changing the Artwork display setting, [☞](#) page 24.

\*2 To cancel random or repeat mode, press the button repeatedly until the indicator disappears. Not available in iPod control mode. ([☞](#) page 26)

\*3 You cannot resume playback for video sources.

\*4 When using iPod nano (1st Generation) or iPod with video, you can control playback only from the unit.

- When you turn on this unit, the iPod/iPhone is charged through the unit.
- The text information may not be displayed correctly.

- For some iPod/iPhone models, the performance may be abnormal or unstable during operation. In this case, disconnect the iPod/iPhone device, then check its condition. If the performance is not improved or is slow, reset your iPod/iPhone.
- For the latest compatible list and software version of iPod/iPhone, see: [www.kenwood.com/cs/ce/ipod](http://www.kenwood.com/cs/ce/ipod)

## Selecting a track/video from menu on the iPod/iPhone

1

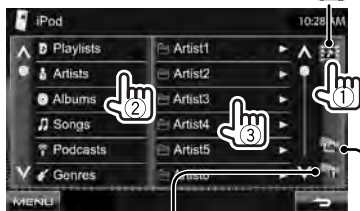


## 2 Select the menu (Music or Video) (1), a category (2), then a desired item (3).

- Select the item in the selected layer until a desired track starts playing.

### Music menu:

Switches between Music (🎵) and Video (📺)

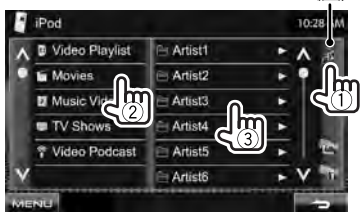


Returns to the previous layer

Returns to the top layer

### Video menu:

Switches between Music (🎵) and Video (📺)



- Available categories differ depending on the type of your iPod/iPhone.

## Operating in iPod/iPhone control mode

You can play back the audio/video using iPod/iPhone itself instead of the unit.



### Audio:



### Video:



- When you are using Garmin StreetPilot® Onboard, the screen appears. For Garmin StreetPilot® Onboard for iPhone, visit the Garmin web site: [www.garmin.com](http://www.garmin.com)

### Garmin App:




- The current position of your vehicle appears on the map. When the vehicle runs, the map scrolls.
- The screens of the iPhone and unit are not the same.
- To return to the normal mode, press [APP].

# PANDORA® operations

## (Only for DDX719/DDX419/DDX319)

- You can operate PANDORA using the remote controller. Only playing, pausing, and skipping are available.
- Install the latest version of the PANDORA® application on your iPhone.








The picture data is displayed if available from the current content.



Song information

- Pressing [<] scrolls the text if not all of the text is shown.

Playing time  
Playback status  
(▶: play / ⏸: pause)

	Displays the Stations list. (⏪ below)
	Thumbs down to the current song and skips to the next song.
	Starts/Pauses playback.
	Skips the current song. <ul style="list-style-type: none"><li>• Not available when the PANDORA skip limitation is exceeded.</li></ul>
	Registers the current song as favorite.
	Bookmarks the artist.
	Bookmarks the current song.

## Selecting a station from the Stations list

Press the name of a station you want to listen to.



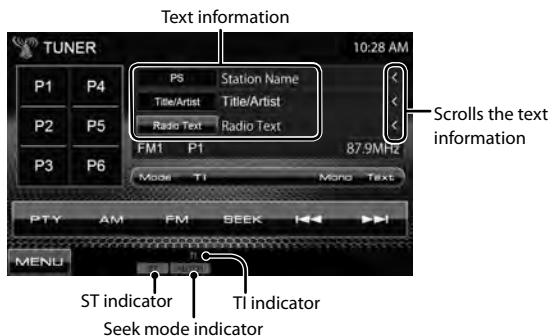
<b>[Quick Mix]</b>	Plays all the songs in the registered stations randomly.
<b>[By Date]</b>	Sorts the list in reverse chronological order.
<b>[By Name]</b>	Sorts the list in alphabetical order. <ul style="list-style-type: none"><li>• The letter selection screen appears. Select a letter, and the stations with the selected letter as their initial come to the top.</li></ul>

### **About Pandora® internet radio**

The requirements for listening to Pandora are as follows:

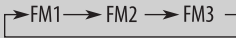
- Use an Apple iPhone or iPod touch running under iOS3 or later.
- Search for "Pandora" in the Apple iTunes App Store to find and install the most current version of the Pandora® application on your device.
- In the application on your device, log in and create an account with Pandora. (If you are not already a registered user, an account can also be created at [www.pandora.com](http://www.pandora.com).)
- Internet connection by 3G, EDGE, or WiFi.
- iPhone connected to this unit with a KCA-iP22F/KCA-iP202.
- Pandora® is available only in the U.S.
- Because Pandora® is a third-party service, the specifications are subject to change without prior notice. Accordingly, compatibility may be impaired or some or all of the services may become unavailable.
- Some functions of Pandora® cannot be operated from this unit.
- For issues using the application, please contact Pandora at [pandora-support@pandora.com](mailto:pandora-support@pandora.com)

# Listening to the radio



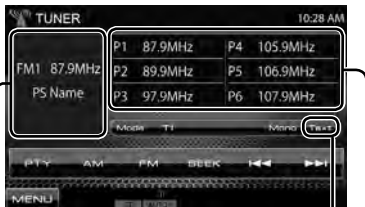
- The ST indicator lights up when receiving an FM stereo broadcast with sufficient signal strength.

[P1] – [P6]	<ul style="list-style-type: none"> <li>• Turns in the preset station. (Press)</li> <li>• Presets the currently tuned station. (Hold)</li> </ul>
[Mode]	Displays tuner setting screen. (☞ page 30)
[TI]	Activates/deactivates TI standby reception mode. (☞ page 31)
[Mono]*	Activates/deactivates monaural mode for better FM reception. (Stereo effect will be lost.) <ul style="list-style-type: none"> <li>• The MONO indicator lights up while monaural mode is activated.</li> </ul>
[Text]	Displays/hides the information of the current station. (☞ page 30)

[PTY]*	Enters FM RBDS program search mode. (☞ page 31)
[AM]	Selects AM band.
[FM]	Selects FM band. 
[SEEK]	Changes the seek mode. <ul style="list-style-type: none"> <li>• <b>AUTO1</b>: Auto Search</li> <li>• <b>AUTO2</b>: Tunes in stations in memory one after another.</li> <li>• <b>MANU</b>: Manual Search</li> </ul>
[<<<]	Searches for a station.
[>>>]	<ul style="list-style-type: none"> <li>• The search method differs according to the selected seek mode. (☞ above)</li> </ul>
[MENU]	Displays <Top Menu> screen.

\* Appears only when FM is selected as the source.

## Displaying the information of the current station



The station frequency currently tuned in/PS (station name) for FM RBDS when PS signal is coming in

Displays the text information

Preset list

## Storing stations in memory

You can preset six stations for each band.

### Automatic presetting—AME (Auto Memory)

1



2



Local stations with the strongest signals are searched and stored automatically.

## Manual presetting

- 1 Tune in to a station you want to preset. (see page 29)
- 2 Select a preset number.



The station selected in step 1 is stored.

## Selecting a preset station



The following features are available only for FM RBDS stations.

## ■ Searching for FM RBDS program—PTY Search

You can search for your favorite programs being broadcast by selecting the PTY code for your favorite programs.

1



## 2 Select a PTY code.



Changes the page

PTY Search starts.

If there is a station broadcasting a program of the same PTY code as you have selected, that station is tuned in.

## ■ Activating/deactivating TI Standby Reception



TI indicator

TI indicator	TI Standby Reception
Lights in white	The unit will temporarily switch to Traffic Information (TI) if available.
Lights in orange	Not yet activated. Tune in to another station providing the RBDS signals.
Goes off	Deactivated.

- The volume adjustment for Traffic Information is automatically memorized. The next time the unit switches to Traffic Information, the volume is set to the previous level.

# Listening to the SiriusXM™ Satellite Radio

(Only for DDX719/DDX419/DDX319)

Everything worth listening to is on SiriusXM, getting over 130 channels, including the most commercial-free music, plus the best sports, news, talk and entertainment. To start listening to the SiriusXM™ Satellite Radio, A SiriusXM Vehicle Tuner (sold separately) and Subscription are required. For more information, visits [www.siriusxm.com](http://www.siriusxm.com).



[P1] – [P6]	<ul style="list-style-type: none"> <li>• Tunes in the preset channel. (Press)</li> <li>• Presets the currently tuned channel. (Hold)</li> </ul>
[Song Title] [Content Info] [Category]	Changes the displayed information each time this button is pressed.
[Mode]	Changes the settings of the reception restrictions. (☞ page 37)
[Direct]	Displays the Direct Channel Select screen. (☞ page 34)
[Text]	Displays/Hides the information on the current channel. (☞ page 34)
[IR]	Displays the Instant Replay screen. (☞ page 36)

[Q]	Obtain information on channels or select a category and then a channel. (☞ page 35)
[BAND]	Changes the band. 
[SEEK]	Changes the seek mode. <ul style="list-style-type: none"> <li>• <b>SEEK1</b>: Skip to another available channel.</li> <li>• <b>SEEK2</b>: Skip to another preset channel.</li> </ul>
[<<<] [>>>]	Seeks forward or backward (refer to the above for the SEEK mode).
[MENU]	Displays the <Top Menu> screen.



## ■ Radio activation

SiriusXM Satellite Radio operation requires the connection of the optional SiriusXM-Connect Vehicle Tuner (sold separately). To activate the SiriusXM Vehicle Connect tuner, you will need the Radio ID.

### 1 Make a note of your Radio ID.

For each SiriusXM Vehicle Connect tuner, peculiar Radio ID is assigned. To confirm your Radio ID, tune to channel 0.

- The letters I, O, S and F are not used in any Radio ID.

### 2 How to activate your SiriusXM Service

Go to [www.siriusxm.com/activatenow](http://www.siriusxm.com/activatenow) or call 1-866-635-2349 to activate your SiriusXM Vehicle Connect Tuner.

### 3 When the following screen appears, press [Enter].



## Displaying the information on the current channel



Band no./ Radio ID\* (or Preset no. if the current station is preset)/ Channel no.      Displays the text information      Preset list

\* The Radio ID is displayed when the channel is set to 0.

## Storing channels in memory

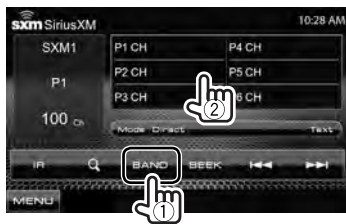
You can preset six channels for each band. (24 in total)

- 1 Tune in to a channel you want to preset. (See page 32)
- 2 Select a preset number.



The channel selected in step 1 is stored.

## Selecting a preset channel



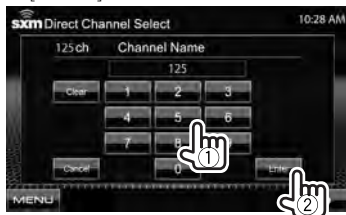
## Selecting a channel directly

1



- 2 Enter a channel no. (1), and then confirm (2).

- To clear the entry, press [Clear].
- To cancel selecting the channel, press [Cancel].



## ■ Displaying information on channels

You can obtain information on channels or select a category and then a channel.

1



## 2 Select [Preset List] or [Channel List].



3

### **Preset List**

Select a band (①) and then a preset channel (②).



### **Channel List**

Select a category (①) and then a channel (②).



- To list all the channels, select [**All Channels**].
- Pressing the info change button under the list displays information in the following order:  
Channel Name → Artist Name →  
Song Title → Content Info



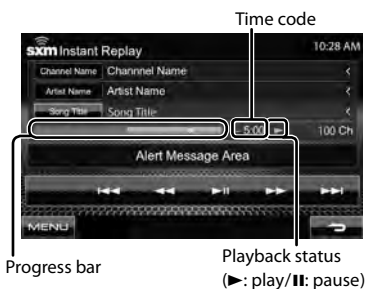
Info change button

## ■ Using the Instant Replay function

You can temporarily record up to 30 minutes of the broadcast from the current time, and replay the recorded data.

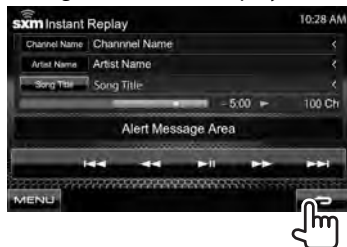
- If you change to another channel during playback, the recorded content will be lost.
- When the recording time reaches 30 minutes, the older recorded data is deleted and recording continues.

### Entering the Instant Replay mode



Progress bar	Shows the remaining capacity (gray) and the amount of recorded data (blue). If you have already recorded 30 minutes, the entire bar is indicated in blue. <ul style="list-style-type: none"> <li>• Updated every second.</li> </ul>
Time code	This display shows you how many minutes into a recording that are being played back. <ul style="list-style-type: none"> <li>• Example: -5:00 You are listening to the data of 5 minutes before the current broadcast.</li> <li>• Updated every second.</li> </ul>
[⏮]	<ul style="list-style-type: none"> <li>• Returns to the previous track if pressed within 2 seconds from the beginning of the current track.</li> <li>• Returns to the beginning of the current track if pressed after 2 seconds or more of the track have been replayed.</li> </ul>
[⏪] [⏩]	Rewind/Fast forward
[⏸]	Starts/Pauses playback.
[⏭]	Skips the current track.

### Exiting the Instant Replay mode (Returning to the normal display)



## ■ Setting the reception restrictions

Display the SiriusXM Mode screen to configure the settings.



### Setting the parental lock

You can set the parental lock or parental mature lock in order to, for example, restrict children from receiving adult channels.

#### Setting/Changing the parental code

- Changing the code does not change the Parental Mature Lock/Parental Lock Channel/Channel Skipping settings.

1



## 2 Enter a four-digit code (①), and then confirm (②).

- To clear the entry, press **[Clear]**.
- To cancel setting the code, press **[Cancel]**.



- The initial setting is "0000".

## 3 Enter a four-digit code (①), and then confirm (②).

- To clear the entry, press **[Clear]**.
- To cancel setting the code, press **[Cancel]**.



## 4 Enter the four-digit code and then press [Enter] again to confirm the code.

#### Activating/Deactivating the parental mature lock

You can set the parental lock on channels classed as "adult" by SiriusXM™.

- To enable the parental control based on Mature channels, press **[ON]** next to "Parental Mature Lock".
- To release the lock, press **[OFF]**.



Enter the parental code to confirm your choice.

## Activating the parental lock on each channel

This parental control option allows you to pick the channels to be locked by the parental control feature.

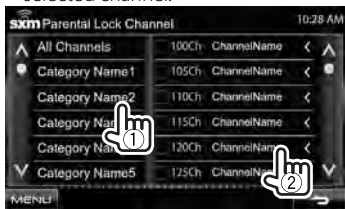
1



2 Enter the parental code.

3 Select a category (1) and then a channel (2).

- To list all the channels, select [**All Channels**].
- A checkmark appears beside the selected channel.



Repeat this step if you want to set the lock on multiple channels.

- Checkmarks appear beside the locked channels, and the channels are disabled.

## Deactivating the parental lock



Enter the parental code.  
All the locked channels will be deactivated.

## Skipping unwanted channels

If you do not want to receive some channels, you can skip them.

## Activating the channel skipping

1



2 Select a category (1) and then a channel (2).

- To list all the channels, select [**All Channels**].
- A checkmark appears beside the selected channel.



Repeat this step if you want to skip multiple channels.


## Clearing the channel skipping





All the skipped channels will be cleared.

# Using other external components

To display the source control screen,  page 14.

AV-IN name ( below)




<b>[Mode]</b>	Changes the AV-IN name. <ul style="list-style-type: none"><li>• Press [] or [] to select an AV-IN name.</li><li>• This setting does not affect the source name "AV-IN 1"/"AV-IN 2" displayed on &lt;Top Menu&gt;.</li></ul>
<b>[MENU]</b>	Displays <Top Menu> screen.


## AV-IN

You can connect an external component to the AV-IN terminal.

### Preparation:

If you want to use AV-IN2, select <AV-IN2> for <AV Input> setting. ( page 50)

### 1 Connect an external component.

To connect it,  page 79, 80.

### 2 Select "AV-IN 1" or "AV-IN 2" as the source. ( page 13)

### 3 Turn on the connected component and start playing the source.

## Using the external navigation unit

### (Only for DDX7049BT/DDX4049BT/DDX3049)

You can connect a navigation unit (KNA-G610/KNA-G630: optional accessory) to the navigation input terminal so that you can view the navigation screen. (☞ page 80)

The navigation guidance comes out through the front speakers even when you listen to an audio source.

### ■ To view the navigation screen

On <Top Menu>:



or

On any screen:



The navigation screen is activated.

- While the navigation screen is displayed, the touch panel operations are available only for using navigation function.
- The aspect ratio of the navigation screen is fixed to <FULL> regardless of the <Aspect> setting (☞ page 46).

### To cancel the navigation screen

DDX7049BT

DDX4049BT/  
DDX3049



### ■ Settings for navigation unit

1 On <Top Menu>:



2



3



<b>Guidance</b>	Select front speakers used for the navigation guidance.
<b>Volume</b>	Adjust the volume of the navigation guidance. (0 to 35)
<b>NAV Mute</b>	Select <ON> to attenuate the sound coming through speakers other than the front speakers during navigation guidance.
<b>NAV Setup</b>	Press [Enter] to display the setup screen for the navigation unit. See the instruction manual supplied for the navigation unit.



# Sound adjustment

## Using the sound equalization

- The adjustment is memorized for each source until you adjust the sound again. If the source is a disc, the adjustment is stored for each of the following categories.
  - DVD/DVD-VR
  - VCD/CD
  - DivX/MPEG1/MPEG2/MP3/WMA/WAV/AAC
- **You cannot adjust the sound when the unit is in standby.**

### ■ Selecting a preset sound mode

1 On <Top Menu>:



2



3 Select a sound mode.



Changes the page

### ■ Storing your own adjustment

#### Customizing preset sound mode

- 1 Select a sound mode. (E3)  
"Selecting a preset sound mode")
- 2 Set <SystemQ- Ex> to <OFF> (1), then press [Tone] (2).



- 3 Adjust the level of each band (1), then select the subwoofer level\* (2).



The adjustments are stored and <User> is activated.

\* Adjustable only when the subwoofer is activated. (E3 page 48)

## Adjusting the sound precisely

- 1 Perform steps 1 and 2 of "Selecting a preset sound mode," then...



2



- 3 Adjust the sound of each band.



<b>Flat</b>	Changes level of Bass/Middle/Treble to 0.
<b>Frequency</b>	Selects frequency.
<b>Level</b>	Adjusts level.
<b>Q Factor</b>	Adjusts the width of the frequency.
<b>Bass EXT</b>	Activates/deactivates bass.
<b>SW Level</b>	Adjusts subwoofer level.*

The adjustments are stored and <User> is activated.

\* Adjustable only when the subwoofer is activated. (page 48)

## Adjusting the cross over frequency

- 1 On <Top Menu>:

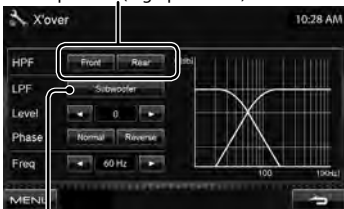


2



- 3 Select the item to adjust, then make adjustment.

Adjusts the cross over for front or rear speakers (high pass filter).



Adjusts the cross over for subwoofer (low pass filter).\*1



Adjusts the cross over frequency.

Selects the phase for the subwoofer.\*2  
Adjusts the subwoofer level.

\*1 Adjustable only when the subwoofer is activated. (page 48)

\*2 Not selectable when <Freq> is set to <Through>.

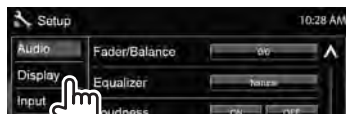
# Changing the display design

You can change the background and panel color.

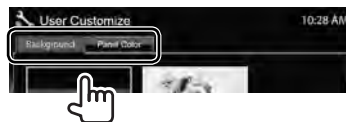
1 On <Top Menu>:



2



3 Select an item to change (<Background> or <Panel Color>).



4 Select a background/panel color.

**To select a background**

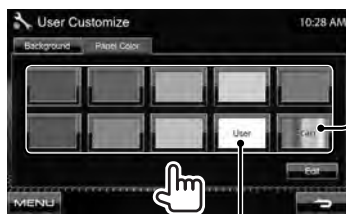


For setting your favorite scene as the background, page 44

**To select a panel color**

Variable color illumination

- Illumination color changes gradually.



For making your own color adjustment, below

**Making your own color adjustment**

- You can make your own color adjustment only when <User> is selected.

1

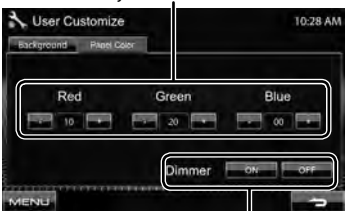


2



3

User color adjuster: You can make your own color adjustment stored in <User>



Dimmer setting: You can make the color adjustment for each dimmer setting

## Using your favorite scene as the background

While playing a video or JPEG, you can capture an image and use the captured image as a background.

- You cannot capture copyrighted content and images from iPod/iPhone.
- When using a JPEG file as the background, make sure that the resolution is 800 x 600 pixels.
- The color of the captured image may look different from that of the actual scene.

### 1 Play back a video or JPEG.

### 2 Display <User Customize>. (E3) page 43)

### 3



### 4 Adjust the image.



[▶||]\* Starts/Pauses playback.

[▶]\* Advances scenes frame-by-frame.

[🔍] Magnifies the scene.  
(<OFF>, <Zoom1> – <Zoom3>)

[▲] [▼] Moves the zooming frame.

[◀] [▶]

• To cancel the capture screen, press [Cancel].

\* Not displayed when playing an external component connected to AV-IN input terminal.

### 5 Capture the image displayed on the screen.



A confirmation message appears. Press [Yes] to store the newly captured image. (The existing image is replaced with the new one.)

• Press [No] to return to the previous screen.

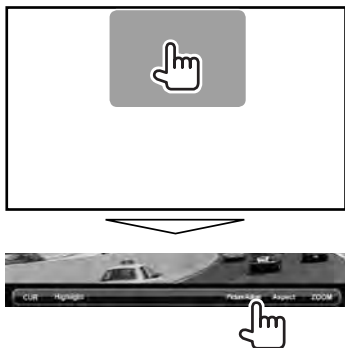
# Setting for video playback

You can change the setting for video playback.

## Picture adjustment

You can adjust the picture quality.

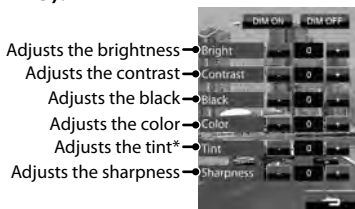
### 1 Display the adjustment menu.



### 2 Select dimmer on (<DIM ON>) or off (<DIM OFF>).



### 3 Adjust the picture (-15 to +15).



\* Adjustable only when the incoming signal is NTSC.

## Changing the aspect ratio

You can change the aspect ratio for video playback.

1



2



	4:3 signal	16:9 signal
<b>FULL*:</b> For 16:9 original pictures		
<b>JUST:</b> For 4:3LB original pictures		
<b>Normal*:</b> For 4:3 original pictures		
<b>Auto:</b>	<ul style="list-style-type: none"> <li>For "DISC"/"USB" only: Aspect ratio is automatically selected to match to the incoming signals.</li> </ul>	

\* While DivX is played back with <Screen Ratio> set to <16:9> (for disc: page 21/ for USB: page 23), the aspect ratio is not set correctly.

## Zooming picture

You can zoom the picture (<Zoom1> to <Zoom3>).

- When <Aspect> is set to <JUST> or <Auto> ( left column), the picture is zoomed with the aspect ratio of the <FULL> setting.

1



2



[▲] [▼] [◀] [▶]: Moves the zooming frame.

# Using a rear view camera

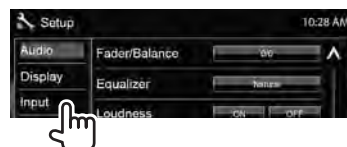
- To use a rear view camera, the REVERSE lead connection is required. For connecting a rear view camera, see page 80.

## ■ Activating the rear view camera

- 1 On <Top Menu>:



2



3



To deactivate, select <OFF>.

## ■ Displaying the picture from the rear view camera

The rear view screen is displayed when you shift the gear to the reverse (R) position.



- To erase the caution message, touch the screen.

To display the picture from the rear view camera manually

DDX719/  
DDX7049BT

DDX419/  
DDX4049BT/  
DDX319/DDX3049



When displaying the picture from the rear view camera manually, you can change the setting of the picture. (see page 45)

To cancel the rear view screen, press and hold the same button again.

# Setting menu items



- You cannot change <Audio> settings when the unit is in standby.

Menu item	Selectable setting/item	Initial: <u>Underlined</u>
<b>Audio</b>	<b>Fader/Balance</b>	<p><b>Fader</b> : Adjust the front and rear speaker output balance.            ◆ <b>F6</b> to <b>R6</b>; Initial <b><u>0</u></b></p> <ul style="list-style-type: none"> <li>• When using a two-speaker system, set the fader to the center (<b><u>0</u></b>).</li> </ul> <p><b>Balance</b> : Adjust the left and right speaker output balance.            ◆ <b>L6</b> to <b>R6</b>; Initial <b><u>0</u></b></p> <p>Press [<b>▲</b>/<b>▼</b>/<b>◀</b>/<b>▶</b>] or drag [<b>+</b>] to adjust.            • To clear the adjustment, press [<b>Center</b>].</p>
	<b>Equalizer</b>	<p>Change the sound mode or adjust and store the equalization for each source. (☞ page 41)</p> <p>◆ <b><u>Natural/Rock/Pops/Easy/Top40/Jazz/User</u></b></p>
	<b>Loudness</b>	<p>You can activate/deactivate the loudness function.</p> <p>◆ <b><u>OFF</u></b> : Cancels.            ◆ <b><u>ON</u></b> : Boost low and high frequencies to produce a well-balanced sound at a low volume level. The LOUD indicator lights up.</p>
	<b>X'over</b>	Adjust the cross over frequency. (☞ page 42)
	<b>Volume Offset</b>	<p>Adjust and store the auto-adjustment volume level for each source. (For discs, the adjustment is stored for each of the following categories: DVD/DVD-VR, VCD/CD, and DivX/MPEG1/MPEG2/MP3/WMA/WAV/AAC.) The volume level will automatically increase or decrease when you change the source.</p> <p>◆ <b>-15</b> to <b>+6</b>; Initial <b><u>0</u></b></p>
	<b>Subwoofer</b>	<p>◆ <b><u>ON</u></b> : Activates the subwoofer.            ◆ <b><u>OFF</u></b> : Cancels.</p>
	<b>Speaker Select</b>	<p>Select the size of the connected speaker.</p> <p>◆ <b><u>Standard/Narrow/Middle/Wide</u></b></p>



Menu item	Selectable setting/item	Initial: <b><u>Underlined</u></b>
Display	<b>Dimmer</b>	<p>◆ <b><u>Auto</u></b> : Dims the screen and button illumination when you turn on the headlights.</p> <ul style="list-style-type: none"> <li>The ILLUMI lead connection is required. (☞ page 78)</li> </ul> <p>◆ <b><u>ON</u></b> : Activates dimmer.</p> <p>◆ <b><u>OFF</u></b> : Cancels.</p> <p>◆ <b><u>NAV</u></b> : Activates or deactivates dimmer according to the day/night display setting of the connected navigation unit.</p>
	<b>User Customize</b>	Change the display design (background and panel color). (☞ page 43)
	<b>OSD Clock</b>	<p>◆ <b><u>ON</u></b> : Displays the clock while a video source is played back.</p> <p>◆ <b><u>OFF</u></b> : Cancels.</p>
	<b>Scroll</b>	<p>◆ <b><u>ON</u></b> : Repeats scrolling.</p> <p>◆ <b><u>Once</u></b> : Scrolls the displayed information once.</p> <p>◆ <b><u>OFF</u></b> : Cancels.</p> <ul style="list-style-type: none"> <li>Pressing [<b>&lt;</b>] scrolls the text regardless of this setting.</li> </ul>
	<b>Menu Customize</b>	<p>Select the large buttons to be displayed on the &lt;<b>Top Menu</b>&gt; screen.</p> <p>Press [<b>Enter</b>] to display the setting screen. Select the icon you want to show as large button by pressing [<b>&lt;</b>] or [<b>&gt;</b>], then press the target icon to confirm.</p>
	<b>Screen Adjust</b>	<p>Adjust the brightness and black color of the screen. Select the dimmer mode (&lt;<b>DIM ON</b>&gt; or &lt;<b>DIM OFF</b>&gt;) for adjustment, then change the following settings:</p> <p>◆ <b><u>Bright</u></b> : Adjusts brightness (-15 to +15; Initial <b>+15</b>).</p> <p>◆ <b><u>Black</u></b> : Adjusts black (-15 to +15; Initial <b>0</b>).</p>
	<b>Video Output*</b>	<p>Select the color system of the external monitor.</p> <p>◆ <b><u>NTSC/PAL</u></b></p>
<b>Angle</b> Only for DDX719/ DDX7049BT	Adjust the panel angle. (☞ page 5)	

\* "Please power off" appears when the setting is changed. Turn off the power, then turn on to enable the change.

Menu item		Selectable setting/item	Initial: <b><u>Underlined</u></b>
<b>Input</b>	<b>AV Input</b>	You can determine the use of AV-IN input terminal. <b>◆ AV-IN2</b> : Select to play an AV component connected to the AV-IN input terminal. <b>◆ <u>iPod</u></b> : Select when connecting the iPod/iPhone using the USB Audio and Video cable for iPod/iPhone. (page 24)	
	<b>R-CAM Interrupt</b>	<b>◆ ON</b> : Displays the picture from the rear view camera when you shift the gear to the reverse (R) position. <b>◆ <u>OFF</u></b> : Cancels.	
	<b>Navigation</b> DDX7049BT/ DDX4049BT/DDX3049	Change the navigation settings. (page 40)	
	<b>NAV Mute</b> DDX719/DDX419/ DDX319	Attenuate the sound coming through speakers other than the front speakers.	

Menu item	Selectable setting/item	Initial: <b><u>Underlined</u></b>
<b>System</b>	<b>Language*</b>	<p>Select the text language used for on-screen information.</p> <p>◆ <b>English/Spanish/French/German/Italian/Dutch/Russian/Portuguese/Chinese-Simplified/Chinese-Traditional/Thai/Turkish/Arabic/Persian/Hebrew/Greece/Indonesia</b></p> <ul style="list-style-type: none"> <li>For external monitors, only English/Spanish/French/German/Italian/Dutch/Russian/Portuguese are available. If another language has been selected, the text language for external monitors will be set to English.</li> </ul> <p>◆ <b>GUI Language</b> : Select a language (&lt;<b>English</b>&gt; or &lt;<b>Local</b>&gt;: the language selected above) used for displaying operation buttons and menu items.</p>
	<b>Clock</b>	Adjust the clock time. (☞ page 10)
	<b>Beep</b>	<p>◆ <b>ON</b> : Activates the key-touch tone.</p> <p>◆ <b>OFF</b> : Cancels.</p>
	<b>Remote Sensor</b>	<p>◆ <b>ON</b> : Activates the remote sensor.</p> <p>◆ <b>OFF</b> : Cancels.</p>
	<b>SETUP Memory</b>	You can memorize, recall, clear, or lock the settings you have made. (☞ page 52)
	<b>DivX(R) VOD</b> Only for DDX7049BT/ DDX4049BT/DDX3049	<p>This unit has its own Registration Code. Once you have played back a file with which the Registration Code recorded, this unit's Registration Code is overwritten for copyright protection.</p> <ul style="list-style-type: none"> <li>Press <b>[Enter]</b> to display the information.</li> <li>To return to the previous screen, press <b>[OK]</b>.</li> </ul>
	<b>SI</b>	Activate or deactivate the security function. (☞ page 7)
	<b>Serial Number</b>	Displays the serial number.
	<b>Touch Panel Adjust</b>	Adjust the touch position of the buttons on screen. (☞ page 52)
	<b>System Information</b>	Displays the version information on the software. You can update the software. (☞ page 6)

\* "Please power off" appears when the setting is changed. Turn off the power, then turn on to enable the change.

## Memorizing/recalling the settings

You can memorize the settings changed in the <Setup> menu and recall the memorized settings anytime.

- The memorized settings are kept even when the unit is reset.

### 1 On <Setup>:



### 2



- To cancel, press [No].

### 3 Select an operation.



**[Recall]:** Recalls the memorized settings.

**[Memory]:** Memorizes the current settings.


**[Clear]:** Clears the currently memorized settings.

- To cancel, press [Cancel].

Confirmation message appears. Press [Yes].

## Locking the settings

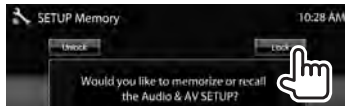
You can lock the settings to prevent them from being changed.

-  is shown beside the settings that can be locked.

### 1 On <Setup>:



### 2



To unlock the setting, press [Unlock].

## Adjusting the touch position

You can adjust the touch position on the touch panel if the position touched and the operation performed do not match.

### 1 On <Setup>:



### 2 Touch the center of the marks at the lower left and at the upper right as instructed.



- To cancel the current operation, press [Cancel].
- To reset to the initial setting, press [Reset].

# BLUETOOTH OPERATIONS

(Only for DDX719/DDX7049BT/DDX419/DDX4049BT)

## Information for using Bluetooth® devices

- While driving, do not perform complicated operations such as dialing the numbers, using phonebook, etc. When you perform these operations, stop your car in a safe place.
- Some Bluetooth devices may not be connected to this unit depending on the Bluetooth version of the device.
- This unit may not work for some Bluetooth devices.
- Connecting condition may vary depending on circumstances around you.
- When the unit is turned off, the device is disconnected.

## Bluetooth operations



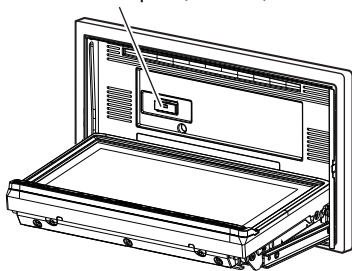
Bluetooth is a short-range wireless radio communication technology for the mobile device such as mobile phones, portable PCs, and other devices. The Bluetooth devices can be connected without cables and communicate with each other.

### Preparation:

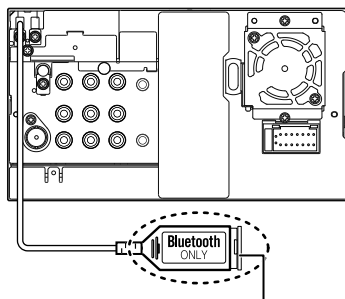
Be sure to connect Bluetooth adapter KS-UBT1 (supplied) and microphone (supplied) beforehand. (☞ page 78)

### DDX719/DDX7049BT

Bluetooth adaptor (KS-UBT1)



### DDX419/DDX4049BT



Bluetooth adaptor (KS-UBT1)

# Connecting Bluetooth devices

## ■ Connecting a new Bluetooth device for the first time

When you connect a Bluetooth device to the unit for the first time, make pairing between the unit and the device. Pairing allows Bluetooth devices to communicate each other.

To make pairing, you may need to enter the PIN (Personal Identification Number) code of your Bluetooth device you want to connect.

- Once the connection is established, it is registered in the unit even if you reset the unit. Up to 5 devices can be registered in total.
- Only one device for Bluetooth phone and one for Bluetooth audio can be connected at a time.
- To use the Bluetooth function, you need to turn on Bluetooth function of the device.
- The maximum digit of the PIN code that can be set is 16.

## 1 Display the Bluetooth setting screen.

On **<Top Menu>**:



## For connecting a Bluetooth mobile phone



**<Handsfree Mode>** is displayed.

## For connecting a Bluetooth audio player

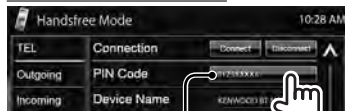


**<Bluetooth Mode>** is displayed.

## 2 Change the PIN code.

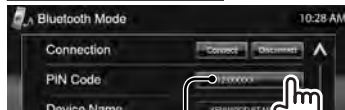
- If you skip changing the PIN code, go to step 3.

### On **<Handsfree Mode>**:

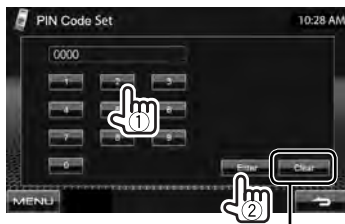


PIN code (initial: 0000)

### On **<Bluetooth Mode>**:



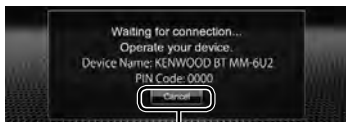
PIN code (initial: 0000)



3



4



Cancel

## 5 Operate the Bluetooth device to connect.

“Connected” appears. Press [OK] to confirm the operation.

Now connection is established and you can use the Bluetooth device through the unit.

## ■ Connecting/disconnecting a registered Bluetooth device

### 1 Display the Bluetooth setting screen. (☞ page 54)

- For Bluetooth mobile phone: <Handsfree Mode>
- For Bluetooth audio player: <Bluetooth Mode>

### 2 To connect



Select the device you want to connect.



- All registered devices (mobile phone and audio player) are listed on <Connect Device>.
  - Selectable items depend on the device you are operating.

### To disconnect



A confirmation message appears. Press [Yes].

## ■ Deleting a registered Bluetooth device

### 1 On <Connect Device> (☞ Step 2 on the left column):



### 2 Select a device to delete the registration.

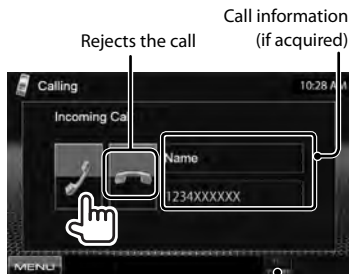


Confirmation message appears. Press [Yes].

## Using the Bluetooth mobile phone

### ■ Receiving a call

When a call comes in...



Status of the device/Battery reminder (only when the information comes from the device)

- Phone operation is not available while the picture from the rear view camera is displayed. (ESP page 47)

### When <Auto Response> is set to <On>

The unit answers the incoming call automatically. (ESP page 62)

### ■ Ending a call

While talking...



### ■ Adjusting the volume of microphone

While talking...





- This adjustment does not affect the volume level of the other sources.
- To adjust the volume of calls/earpiece, use the volume knob on the monitor panel.

### ■ Switching between handsfree mode and phone mode

While talking...



Each time you press the button, the talking method is switched (  : handsfree mode /  : phone mode).

### ■ Checking SMS reception

If the mobile phone is compatible with SMS (Short Message Service), the unit tells you a message has been received.

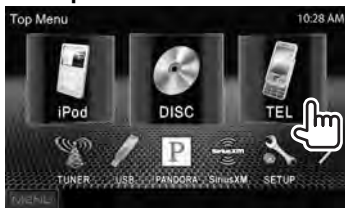
To read a received message, operate the mobile phone after stopping the car in a safe place.

- You cannot read, edit, or send a message through the unit.



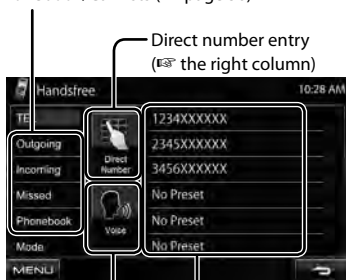
## ■ Making a call

### 1 On <Top Menu>:



### 2 Select a method to make a call.

Phonebook/Call lists (☞ page 58)



Direct number entry  
(☞ the right column)

Preset list (For presetting,  
☞ page 59)

Voice dialing (☞ the right column)

### Direct number entry

Deletes last character



Hold: Adds "+"

Presets the entered phone number on the preset list (☞ page 59)

- You can enter up to 32 numbers.

### Voice Dialing

- Available only when the connected mobile phone has the voice recognition system.



Speak the name you want to call.

**To cancel**, press [Cancel].

## Using the phonebook/call lists

1



<b>Outgoing</b>	From dialled call list.
<b>Incoming</b>	From received call list.
<b>Missed</b>	From missed call list.
<b>Phonebook</b>	From phonebook. <ul style="list-style-type: none"><li>For copying the phonebook, see page 59.</li></ul>



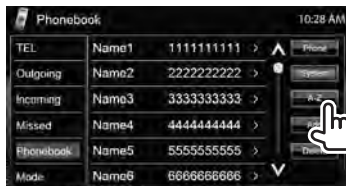
2



### To use the A-Z search on the phonebook

When <Phonebook> is selected, you can search by initial.

1



2 Select the initial. If the initial is not a letter or number, press [Others].



3 Select a phone number from the list.



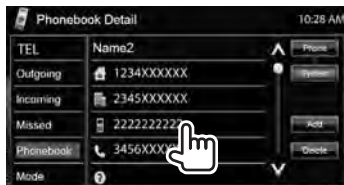
### To display the details of an entry

When <Phonebook> is selected...

1 Press the right arrow icon of an entry.



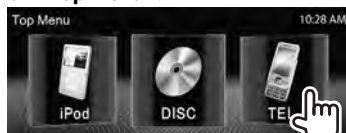
2 To make a call, select a phone number.



## ■ Presetting the phone numbers

You can preset up to 6 phone numbers.

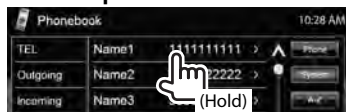
### 1 On <Top Menu>:



### 2 Select an item from phonebook/call lists.



### 3 Select a phone number.



### 4 Select a preset number to store.



- You can also preset the phone number entered on <Direct Number> screen by pressing [Preset]. (☞ page 57)

**To delete the preset phone numbers,** initialize the settings from <Initialize> in <Handsfree Mode>. (☞ page 62)

## ■ Copying the phonebook

You can copy the phonebook memory of a mobile phone into the unit (up to 400 entries).

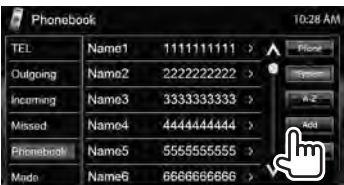
### 1 On <Top Menu>:



### 2



### 3



PIN code (initial: 0000)



Numbers of the phonebook entries copied

### 4 Operate the target mobile phone.

- Refer to the instruction manual supplied with your mobile phone.
- **To cancel the transfer,** press [Finish].

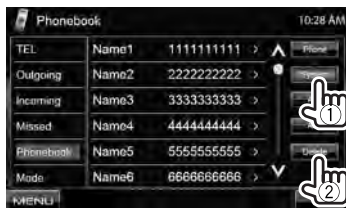
### 5 Finish the procedure.



The phonebook memory is copied from the mobile phone.

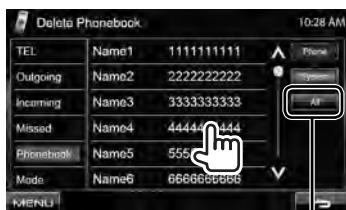
## ■ Deleting the phone number entries in the unit

- 1 Display the phonebook/call list you want to delete. (See page 58)
- 2



- You cannot delete data when <Phone> is selected.

- 3 Select the item you want to delete.



Delete all the numbers/  
names in the selected item

A confirmation message appears. Press [Yes].

## ■ About mobile phones compatible with Phone Book Access Profile (PBAP)

If your mobile phone supports PBAP, the phonebook and call lists are automatically copied to the unit when the mobile phone is connected.

- Phonebook: up to 5 000 entries
- Dialed calls, received calls, and missed calls: up to 50 entries each

### To display the phonebook/call lists of the mobile phone or the unit

Connected mobile phone



## Using the Bluetooth audio player

- To register a new device, see page 54.
- To connect/disconnect a device, see page 55.



Tag data (current track title/  
artist name/album title)\*

- Pressing [ < ] scrolls the text if not all of the text is shown.

Playing time\*

Playback status\*

(▶: play/||: pause)

Battery reminder (only when the information comes from the device)

- The operation buttons, indications and information displayed on the screen differ depending on the connected device.

[▶]	Starts playback.
[  ]	Pauses.
[◀◀▶▶]	<ul style="list-style-type: none"> <li>• Selects track. (Press)</li> <li>• Reverse/forward search* (Hold)</li> </ul>

[Mode]	Displays the Bluetooth setting screen. (see below)
[MENU]	Displays <Top Menu> screen.

\* Available only for the devices compatible with AVRCP 1.3.

## Bluetooth device settings

**For Bluetooth mobile phone:**

1 On <Top Menu>:



2





**For Bluetooth audio player:**

1 On <Top Menu>:



2



Menu items	Selectable setting/item	Initial: <b><u>Underlined</u></b>
Connection	<ul style="list-style-type: none"> <li>◆ <b>Connect</b> :  page 55</li> <li>◆ <b>Disconnect</b> :  page 55</li> </ul>	
PIN Code	Changes the PIN code of the unit. <ul style="list-style-type: none"> <li>• Enter a new PIN code, then press <b>[Enter]</b>.</li> </ul>	
Device Name	Shows the device name to be shown on the Bluetooth device — “KENWOOD BT MM-6U2.”	
Device Address	Shows the device address of the unit.	
Phone Device*1	Shows the connected phone device name.	
Audio Device*2	Shows the connected audio device name.	
Auto Connect	<ul style="list-style-type: none"> <li>◆ <b>OFF</b> : Cancels.</li> <li>◆ <b><u>ON</u></b> : The connection is automatically established with the last connected Bluetooth device when the unit is turned on.</li> </ul>	
Bluetooth HF/Audio	Select the speakers used for Bluetooth (both phone use and audio player). <ul style="list-style-type: none"> <li>◆ <b>Front Only</b> : From front speakers only.</li> <li>◆ <b>All</b> : From all speakers.</li> </ul>	
Initialize	Hold <b>[Enter]</b> to initialize all settings you have made for using Bluetooth mobile phone and Bluetooth audio player.	
Auto Response*1	<ul style="list-style-type: none"> <li>◆ <b>OFF</b> : The unit does not answer the calls automatically. Answer the calls manually.</li> <li>◆ <b>ON</b> : The unit answers the incoming calls automatically within 5 seconds.</li> </ul>	
SMS Notify*1	<ul style="list-style-type: none"> <li>◆ <b>OFF</b> : The unit does not inform you of the arrival of a message.</li> <li>◆ <b>ON</b> : The unit informs you of the arrival of a message by ringing and displaying “Receiving Message.”</li> </ul>	
Ring Mode*1	<ul style="list-style-type: none"> <li>◆ <b>System</b> : Selects the ring tone set on the unit.</li> <li>◆ <b>Phone</b> : Selects the ring tone set on the mobile phone. (This function may not work depending on the mobile phone.)</li> </ul>	
Ring Tone Change*1	When <Ring Mode> is set to <System>, press <b>[Enter]</b> , then select the ring tone for received calls and SMS from < <b><u>Tone1</u></b> >, < <b><u>Tone2</u></b> >, < <b><u>Tone3</u></b> >. <ul style="list-style-type: none"> <li>◆ <b>Call Tone</b> : Selects the ring tone for phone calls.</li> <li>◆ <b>Message Tone</b> : Selects the ring tone for SMS.</li> </ul>	

\*1 Appears only for <**Handsfree Mode**>.

\*2 Appears only for <**Bluetooth Mode**>.

# USING THE REMOTE CONTROLLER

## Overview

DDX7049BT/DDX4049BT/DDX3049:

This unit can be operated using the Remote Controller (RC-DV340) supplied with this unit.  
DDX719/DDX419/DDX319:

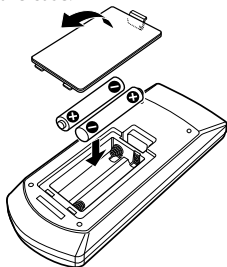
Optional Remote Controller KNA-RCDV331 is designed for controlling this unit. Refer to the instruction manual that comes with the remote controller.

### ⚠ CAUTION

- 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 leave the battery near fire or under direct sunlight. A fire, explosion or excessive heat generation may result.
- 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

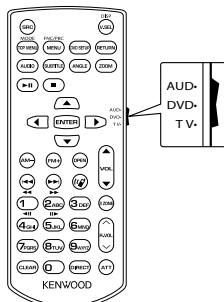
Use two "AAA"/"R03"-size batteries. Insert the batteries with the + and - poles aligned properly, following the illustration inside the case.



- 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.



**AUD mode:** Switch to this mode when controlling a selected source or tuner source, etc.

**DVD mode:** Switch to this mode when playing DVDs or CDs etc. with the player integrated in this unit.

**TV mode:** Not used.

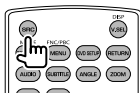
- The position of the remote control mode switch is indicated in the title of each mode, e.g., "(AUD mode)".
- When controlling a player that is not integrated in the unit, select "AUD" mode.

# Operations from the remote controller

## Common operations (AUD mode)

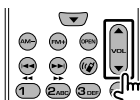
### Source switching

Switches to the source to be played.  
Hangs up the incoming/current call.



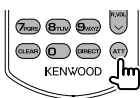
### Volume control

Adjusts the volume.



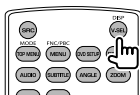
### Volume attenuating

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



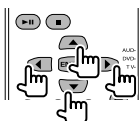
### NAV/V.SEL

Switches to the navigation screen.



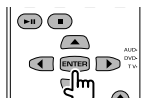
### Cursor key

Moves the cursor when displaying menu.



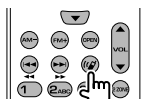
## ENTER

Enters options.



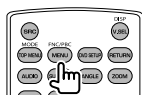
## Hands-free communication

When a call comes in, it answers the call.



## Function

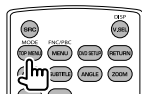
Switches the function screen.



## MODE

Switches the screen mode.

Screen mode changes each time you press this key.

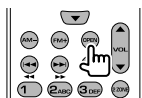


## OPEN

(Only for DDX719/DDX7049BT)

Adjusts the panel angle.

The panel angle changes each time you press this key.

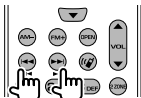




## DVD/VCD (DVD mode)

### Track search and file search

Selects the track or file to be played.



### Play/Pause

Pauses the track.

Press again to resume playing.

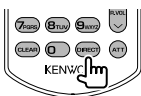


### Stop

Memorizes the last point where the disc stopped.



### Direct search



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

## DVD-VIDEO

Chapter number

Title number

Cancel

## DVD-VR

Chapter number

Program/Playlist

Cancel

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

Track number

Cancel

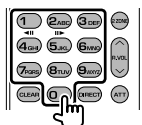
## VCD 2.X (PBC ON)

Track number

Cancel

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

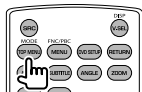
### Numeric keypad



- 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 **1** **2ABC** to slow forward/backward during pause.

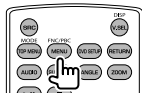
## DVD Top Menu

Returns to the DVD top menu.



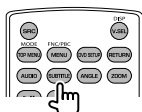
## DVD Menu

Displays the DVD menu.



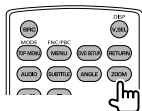
## SUBTITLE

Switches the subtitle language.



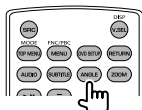
## ZOOM

Switches the zoom ratio each time you press this key.



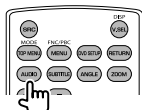
## Picture Angle

Switches the picture angle each time you press this key.



## AUDIO

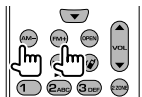
Switches Voice Language.  
Switches the voice language each time you press this key.



## Music Disc/Audio file/Video file/ Picture file (AUD mode)

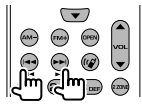
### Folder search

Selects the folder to be played.



## Track search and file search

Selects the track or file to be played.

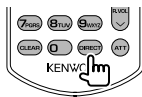


## Play/Pause

Pauses the track.  
Press again to resume playing.



## Direct search



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

## Music Disc

Track number

Cancel

## Audio files in DVD/CD disc

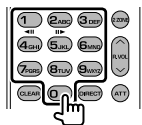
Folder number

File 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

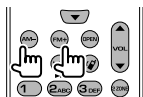


- Specify the number to search in direct search.

## Radio/SiriusXM (AUD mode)

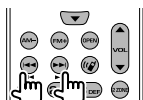
### Band switching

Switches to bands received by the unit.



### Station selection

Switches to broadcast stations received by the unit.



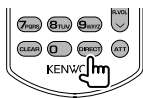
### Seek mode switching

Switches the Seek mode (AUTO1, AUTO2, MANU).

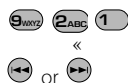


### Direct tuning

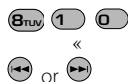
After pressing this key, use the keypad to specify the broadcast station you wish to receive.



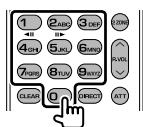
Example: 92.1MHz (FM)



Example: 810kHz (AM)



### Numeric keypad

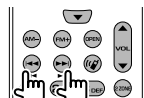


- To use preset tuning, press the number of a programmed broadcast station. (1 - 6) (6)
- Press the direct tuning key first, then specify the frequency of the station to receive.

## iPod (AUD mode)

### Music/Video search

Selects the music/video to be played.



### Play/Pause

Pauses the music/video.

Press again to resume playing.



## USB (AUD mode)

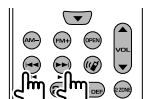
### Folder search

Selects the folder to be played.



### File search

Selects the file to be played.



### Play/Pause

Pauses the file.

Press again to resume playing.

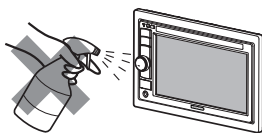


# REFERENCE

## Maintenance

### Caution on cleaning the unit

Do not use any solvent (for example, thinner, benzine, etc.), detergent, or insecticide. This may damage the monitor or the unit.



### Recommended cleaning method:

Gently wipe the panel with a soft, dry cloth.

### Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
  - If it becomes very humid inside the car.
- Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

### How to handle discs

**When removing a disc from its case,** press down the center holder of the case and lift the disc out, holding it by the edges.

Center holder



- Always hold the disc by the edges. Do not touch its recording surface.

**When storing a disc in its case,** gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs in their cases after use.

### To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



- Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

### To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.



**To remove these rough spots,** rub the edges with a pencil or ball-point pen, etc.

### Do not use the following discs:

3 inch disc



Warped disc



Sticker and sticker residue



Stick-on label



Unusual shape



C-thru Disc (semi-transparent disc)



Transparent or semi-transparent parts on its recording area



# More about this unit

## ■ File playback

### Playing DivX files

(Only for DDX7049BT/DDX4049BT/DDX3049)

- This unit can play back DivX files with the extension code <.divx>, <.div>, or <.avi> (regardless of the letter case—upper/lower).
- Audio stream should conform to MP3 or Dolby Digital.
- The file encoded in the interlaced scanning mode may not be played back correctly.

### Playing MPEG1/MPEG2 files

- This unit can play back MPEG1/MPEG2 files with the extension code <.mpg>, <.mpeg>, or <.mod>.
- The stream format should conform to MPEG system/program stream. The file format should be MP@ML (Main Profile at Main Level)/SP@ML (Simple Profile at Main Level)/MP@LL (Main Profile at Low Level).
- Audio streams should conform to MPEG1 Audio Layer-2 or Dolby Digital.

### Playing JPEG files

- This unit can play back JPEG files with the extension code <.jpg>, or <.jpeg>.
- This unit can play back JPEG files that are at 32 x 32 to 8 192 x 7 680 resolution. It may take time to display the file depending on its resolution.
- This unit can play back baseline JPEG files. Progressive JPEG files or lossless JPEG files cannot be played.

**We bear no responsibility for any loss of data in an iPod/iPhone and USB mass storage class device while using this unit.**

### Playing MP3/WMA/WAV/AAC files

- This unit can play back files with the extension code <.mp3>, <.wma>, <.wav>, or <.m4a> (regardless of the letter case—upper/lower).
- This unit can play back the files meeting the conditions below:
  - Bit rate:
    - MP3/WMA: 32 kbps — 320 kbps
    - AAC: 16 kbps — 320 kbps
  - Sampling frequency:
    - 48 kHz, 44.1 kHz, 32 kHz (for MPEG1)
    - 24 kHz, 22.05 kHz, 16 kHz (for MPEG2)
    - 48 kHz, 44.1 kHz, 32 kHz, 22.05 kHz (for WMA)
    - 44.1 kHz (for WAV)
    - 48 kHz, 44.1 kHz (for AAC)
- This unit can show ID3 Tag Version 1.0/1.1/2.2/2.3/2.4 (for MP3).
- This unit can also show WAV/WMA Tag.
- This unit can play back files recorded in VBR (variable bit rate).
- Files recorded in VBR have a discrepancy in elapsed time indication.
- This unit cannot play back the following files:
  - MP3 files encoded with MP3i and MP3 PRO format.
  - MP3 files encoded with Layer 1/2.
  - WMA files encoded with lossless, professional, and voice format.
  - WMA files which are not based upon Windows Media® Audio.
  - WMA/AAC files copy-protected with DRM.
  - AAC files encoded by using any other application than iTunes.
  - AAC files copy-protected with FairPlay (except those stored on an iPod).
  - Files which have the data such as AIFF, ATRAC3, etc.

## ■ Sound signals emitted through the rear terminals

### *Through the analog terminals (Speaker out/Front Preout/Rear Preout)*

2-channel signal is emitted. When playing multi-channel encoded disc, multi-channel signals are downmixed.

## ■ Language codes (for DVD/DivX language selection)

Code	Language	Code	Language	Code	Language	Code	Language
AA	Afar	GL	Galician	MI	Maori	SO	Somali
AB	Abkhazian	GN	Guarani	MK	Macedonian	SQ	Albanian
AF	Afrikaans	GU	Gujarati	ML	Malayalam	SR	Serbian
AM	Ameharic	HA	Hausa	MN	Mongolian	SS	Siswati
AR	Arabic	HI	Hindi	MO	Moldavian	ST	Sesotho
AS	Assamese	HR	Croatian	MR	Marathi	SU	Sundanese
AY	Aymara	HU	Hungarian	MS	Malay (MAY)	SW	Swahili
AZ	Azerbaijani	HY	Armenian	MT	Maltese	TA	Tamil
BA	Bashkir	IA	Interlingua	MY	Burmese	TE	Telugu
BE	Byelorussian	IE	Interlingue	NA	Nauru	TG	Tajik
BG	Bulgarian	IK	Inupiak	NE	Nepali	TH	Thai
BH	Bihari	IN	Indonesian	NO	Norwegian	TI	Tigrinya
BI	Bislama	IS	Icelandic	OC	Occitan	TK	Turkmen
BN	Bengali, Bangla	IW	Hebrew	OM	(Afan) Oromo	TL	Tagalog
BO	Tibetan	JA	Japanese	OR	Oriya	TN	Setswana
BR	Breton	JL	Yiddish	PA	Panjabi	TO	Tonga
CA	Catalan	JW	Javanese	PL	Polish	TR	Turkish
CO	Corsican	KA	Georgian	PS	Pashto, Pushto	TS	Tsonga
CS	Czech	KK	Kazakh	QU	Quechua	TT	Tatar
CY	Welsh	KL	Greenlandic	RM	Rhaeto-Romance	TW	Twi
DZ	Bhutani	KM	Cambodian	RN	Kirundi	UK	Ukrainian
EL	Greek	KN	Kannada	RO	Rumanian	UR	Urdu
EO	Esperanto	KO	Korean (KOR)	RW	Kinyarwanda	UZ	Uzbek
ET	Estonian	KS	Kashmiri	SA	Sanskrit	VI	Vietnamese
EU	Basque	KU	Kurdish	SD	Sindhi	VO	Volapuk
FA	Persian	KY	Kirghiz	SG	Sangho	WO	Wolof
FI	Finnish	LA	Latin	SH	Serbo-Croatian	XH	Xhosa
FJ	Fiji	LN	Lingala	SI	Singhalese	YO	Yoruba
FO	Faroese	LO	Laothian	SK	Slovak	ZU	Zulu
FY	Frisian	LT	Lithuanian	SL	Slovenian		
GA	Irish	LV	Latvian, Lettish	SM	Samoaan		
GD	Scots Gaelic	MG	Malagasy	SN	Shona		

# Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

- For operations with the external components, refer also to the instructions supplied with the adapters used for the connections (as well as the instructions supplied with the external components).

## ■ If the following messages appear

Message	Remedy/Cause
"No Signal"	<ul style="list-style-type: none"><li>• Start the playback on the external component connected to AV-IN input terminal.</li><li>• Check the cords and connections.</li><li>• Signal input is too weak.</li></ul>
<ul style="list-style-type: none"><li>• "Miswiring DC Offset Error"</li><li>• "Warning DC Offset Error"</li></ul>	A speaker cord has shorted or it has come in to contact with the car chassis. Wire or insulate the speaker cord as appropriate, then reset the unit (☞ page 3, 78).
"Parking off"	No playback picture is shown when the parking brake is not engaged.
"Authorization Error"	Check whether the connected iPod/iPhone is compatible with this unit. (☞ page 24)
"USB Device Error"	<ul style="list-style-type: none"><li>• The USB power voltage is abnormal.</li><li>• Turn off and turn on the unit.</li><li>• Connect another USB device.</li></ul>
"No BT Dongle"	Bluetooth adapter (KS-UBT1) is removed.
"Connection Error"	The device is registered but the connection has failed. Connect the registered device. (☞ page 55)
"Please Wait..."	The unit is preparing to use the Bluetooth function. If the message does not disappear, turn off and turn on the unit, then connect the device again (or reset the unit).
"NO Voice Device"	The connected mobile phone does not have the voice recognition system.
"NO Data"	No phonebook data is contained in the connected Bluetooth phone.
"Initialize Error"	The unit has failed to initialize the Bluetooth module. Try the operation again.
"Dial Error"	Dialing has failed. Try the operation again.
"Hung Up Error"	The call has not ended yet. Park your car, and use the connected mobile phone to end the call.
"Pick Up Error"	The unit has failed to receive a call.
"Pairing Mode Error"	Pairing between the unit and Bluetooth device has failed. Register the device again. (☞ page 54)
"Panel Mecha Error"	The panel does not work properly. Reset the unit.
"No Navigation"	No navigation unit is connected.

**Pandora (Only for DDX719/DDX419/DDX319)**

<b>Message</b>	<b>Remedy/Cause</b>
"Cannot Skip"	No more songs can be skipped.
"Rating Failed"	Thumb-up/-down is prohibited.
"No Station"	No station is available.
"No Active Station"	No station is being played.

**SiriusXM (Only for DDX719/DDX419/DDX319)**

<b>Message</b>	<b>Remedy/Cause</b>
"Check Tuner"	The SiriusXM Tuner is disconnected or the unit is having trouble communicating with the Tuner. Connect the Tuner or check the Tuner connection to the back of the unit.
"Subscription Updated – Press Enter to Continue"	Your subscription status has been updated.
<ul style="list-style-type: none"><li>• "Chan Unavailable"</li><li>• "Ch Unavl"</li></ul>	The selected channel is not available.
<ul style="list-style-type: none"><li>• "Chan UnSubscribed"</li><li>• "Ch Unsub"</li></ul>	The selected channel has not been subscribed yet.
"Incorrect Lock Code"	The selected channel is a mature or parental lock channel, and locked by parental lock or user lock code. Enter the correct lock code.
<ul style="list-style-type: none"><li>• "Check Antenna"</li><li>• "Chek Ant"</li></ul>	The antenna may have a problem. Check the antenna.
<ul style="list-style-type: none"><li>• "No Signal"</li><li>• "NoSignal"</li></ul>	No satellite or terrestrial signal can be found. This message appears when the channel selection cannot be complete even in a given time.



## ■ If there seems to be a problem

	Symptom	Remedy/Cause
<b>General</b>	No sound comes out of the speakers.	<ul style="list-style-type: none"> <li>• Adjust the volume to the optimum level.</li> <li>• Check the cords and connections.</li> </ul>
	No picture is displayed on the screen.	Turn on the screen. (☞ page 11)
	The unit does not work at all.	Reset the unit. (☞ page 3)
	The remote controller* does not work.	Replace the battery.
<b>TUNER</b>	AME automatic presetting does not work.	Store stations manually. (☞ page 30)
	Static noise while listening to the radio.	Connect the antenna firmly.
<b>Disc in general</b>	<ul style="list-style-type: none"> <li>• Recordable/Rewritable discs cannot be played back.</li> <li>• Tracks on the Recordable/Rewritable discs cannot be skipped.</li> </ul>	<ul style="list-style-type: none"> <li>• Insert a finalized disc.</li> <li>• Finalize the discs with the component which you used for recording.</li> </ul>
	Playback does not start.	The format of files is not supported by the unit.
	No picture appears on the external monitor.	<ul style="list-style-type: none"> <li>• Connect the video cord correctly.</li> <li>• Select the correct input on the external monitor.</li> </ul>
<b>DivX/MPEG1/MPEG2/JPEG/MP3/WMA/WAV/AAC</b>	Disc cannot be played back.	<ul style="list-style-type: none"> <li>• Record the tracks using a compliant application on the appropriate discs. (☞ page 16)</li> <li>• Add appropriate extension codes to the file names.</li> </ul>
	Tracks are not played back as you have intended them to play.	Playback order may differ from the one played back using other players.
<b>AV-IN</b>	No picture appears on the screen.	<ul style="list-style-type: none"> <li>• Turn on the video component if it is not on.</li> <li>• Connect the video component correctly.</li> </ul>

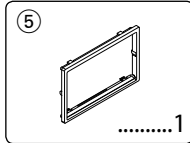
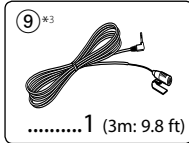
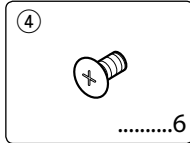
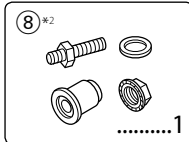
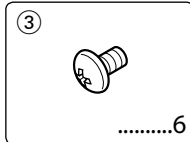
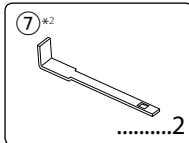
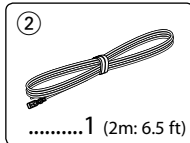
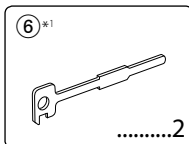
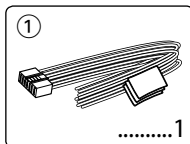
\* For DDX719/DDX419/DDX319, purchase KNA-RCDV331 separately.

	Symptom	Remedy/Cause
iPod/iPhone	No sound comes out of the speakers.	<ul style="list-style-type: none"> <li>• Disconnect the iPod, then connect it again.</li> <li>• Select another source and then reselect "<b>iPod</b>".</li> </ul>
	The iPod/iPhone does not turn on or does not work.	<ul style="list-style-type: none"> <li>• Check the connecting cable and its connection.</li> <li>• Update the firmware version.</li> <li>• Charge the battery.</li> <li>• Check whether the iPod control mode is correctly selected. (☞ page 26)</li> <li>• Reset the iPod/iPhone.</li> </ul>
	Sound is distorted.	Deactivate the equalizer either on this unit or the iPod/iPhone.
	A lot of noise is generated.	Turn off (uncheck) the "VoiceOver" feature of the iPod. For details, visit < <a href="http://www.apple.com">http://www.apple.com</a> >.
	No operations are available when playing back a track containing Artwork.	Operate the unit after the Artwork is loaded. (☞ page 24)
	Sound does not synchronize with the video.	Select < <b>iPod</b> > for < <b>AV Input</b> >. (☞ page 50)
	<ul style="list-style-type: none"> <li>• Videos cannot be played.</li> <li>• No sound of videos comes out.</li> </ul>	<ul style="list-style-type: none"> <li>• Connect USB Audio and Video cable KCA-iP202/ KCA-iP22F. Other cables cannot be used.</li> <li>• Select &lt;<b>iPod</b>&gt; for &lt;<b>AV Input</b>&gt;. (☞ page 50)</li> </ul>
USB	"Reading..." keeps flashing on the screen.	Turn off the power and on again.
	While playing a track, sound is sometimes interrupted.	The tracks are not properly copied into the USB device. Copy tracks again, and try again.

	Symptom	Remedy/Cause
<b>Bluetooth (only for DDX719/DDX7049BT/DDX419/DDX4049BT)</b>	Phone sound quality is poor.	<ul style="list-style-type: none"> <li>Reduce the distance between the unit and the Bluetooth mobile phone.</li> <li>Move the car to place where you can get a better signal reception.</li> </ul>
	The sound is interrupted or skipped while using a Bluetooth audio player.	<ul style="list-style-type: none"> <li>Reduce the distance between the unit and the Bluetooth audio player.</li> <li>Disconnect the device connected for Bluetooth phone.</li> <li>Turn off, then turn on the unit.</li> <li>(When the sound is not yet restored) connect the player again.</li> </ul>
	The connected audio player cannot be controlled.	Check whether the connected audio player supports AVRCP (Audio Video Remote Control Profile).
	Bluetooth device does not detect the unit.	<ul style="list-style-type: none"> <li>Check whether the Bluetooth adapter (KS-UBT1) is inserted correctly.</li> <li>Search from the Bluetooth device again.</li> </ul>
	The unit does not make pairing with the Bluetooth device.	Enter the same PIN code for both the unit and target device. If the PIN code of the device is not indicated on its instructions, try "0000" or "1234."
	Echo or noise occurs.	Adjust the microphone unit position.
	The unit does not respond when you try to copy the phonebook to the unit.	You may have tried to copy the same entries (as stored) to the unit.

# Accessories/Installation Procedure

## Accessories



\*1 DDX419/DDX4049BT/  
DDX319/DDX3049 only.

\*2 DDX719/DDX7049BT  
only.

\*3 DDX719/DDX7049BT/  
DDX419/DDX4049BT  
only.

- 7 Reconnect the ⊖ battery.
- 8 Press the reset button.
- 9 Perform the Initial Setup.

### ▲WARNING

- If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.
- Do not cut out the fuse from the ignition wire (red) and the battery wire (yellow). The power supply must be connected to the wires via the fuse.

### After the Installation

After the installation, perform the Initial Setup by referring to the instruction manual.

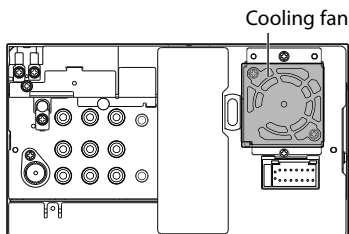


- Mounting and wiring this product requires skills and experience. For best safety, leave the mounting and wiring work to professionals.
- Make sure to ground the unit to a negative 12V DC power supply.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.
- If the power is not turned ON ("Miswiring DC Offset Error", "Warning DC Offset Error" is displayed), the speaker wire may have a short-circuit or touched the chassis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.
- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, such as with battery wires, the battery may be drained.
- If the console has a lid, make sure to install the unit so that the faceplate will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.

## Installation Procedure

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

- Insulate unconnected wires with vinyl tape or other similar material. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the ⊖ wires or ground them to any metal part in the car.
- When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). For example, if you connect the ⊕ connector of the left speaker to a front output terminal, do not connect the ⊖ connector to a rear output terminal.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.
- Do not press hard on the panel surface when installing the unit to the vehicle. Otherwise scars, damage, or failure may result.
- This unit has the cooling fan to decrease the internal temperature. Do not mount the unit in a place where the cooling fan of the unit are blocked. Blocking these openings will inhibit the cooling of the internal temperature and result in malfunction.



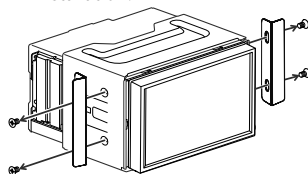
### ⚠ CAUTION

Install this unit in the console of your vehicle.  
Do not touch the metal part of this unit during and shortly after the use of the unit. Metal part such as the heat sink and enclosure become hot.

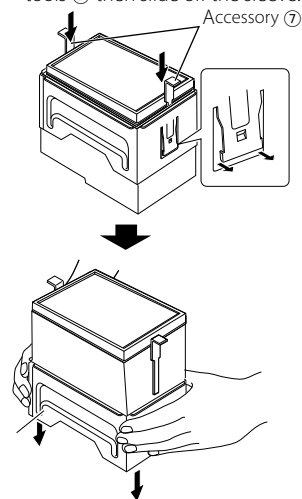
## DDX719/ DDX7049BT only

**1** Before installation, remove the screws.

Do not use the removed screws for installation.

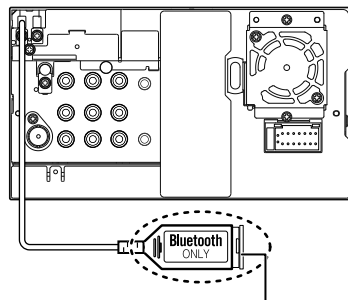


**2** Detach the sleeve using the two removal tools ⑦ then slide off the sleeve.



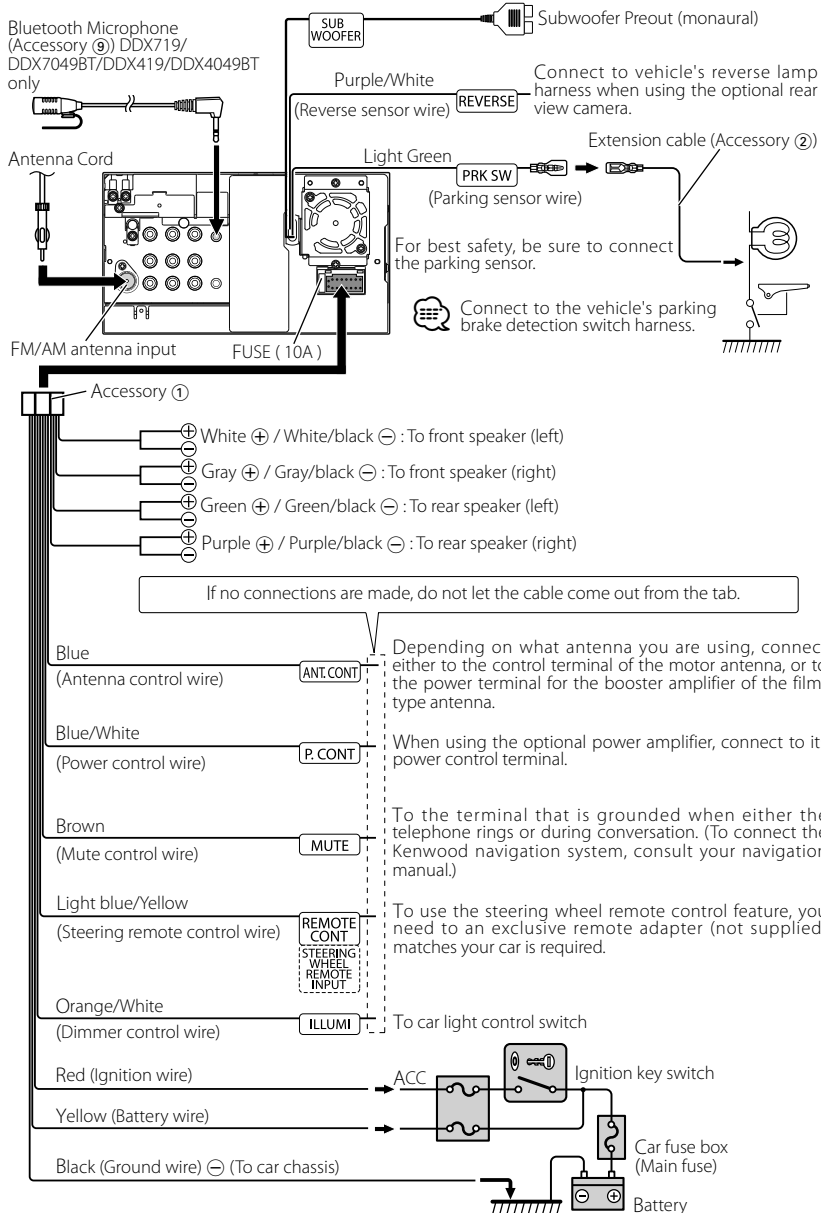
## DDX419/ DDX4049BT only

- Install the Bluetooth adaptor (KS-UBT1) besides the place enclosed by the metal.



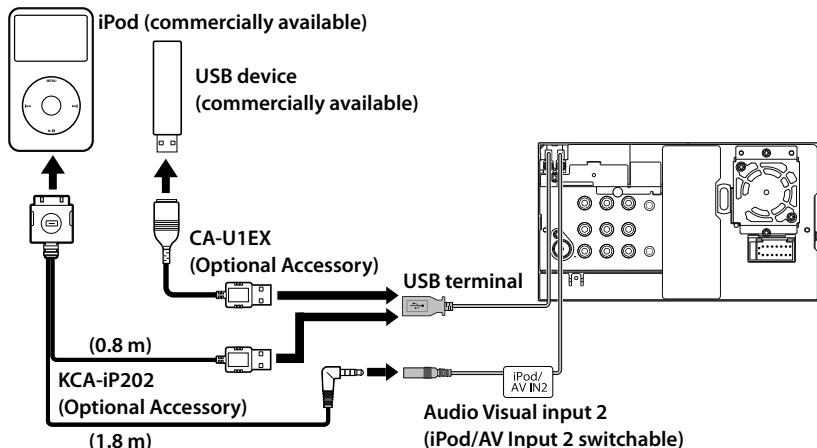
Bluetooth adaptor (KS-UBT1)

# Connecting Wires to Terminals

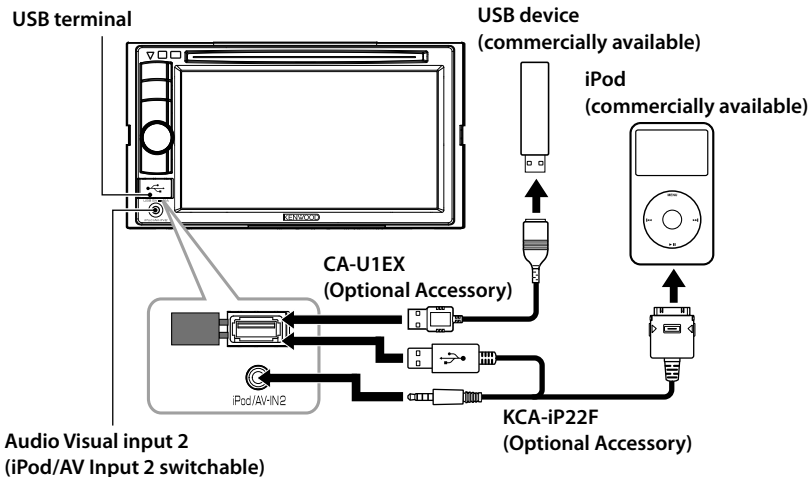


# Connecting a USB device/iPod/iPhone

For DDX719/DDX7049BT

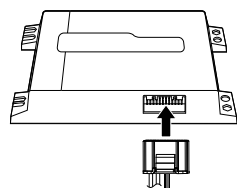


For DDX419/DDX319/DDX4049BT/DDX3049



# Connecting Other Products

## Navigation System (Optional Accessory) DDX7049BT/DDX4049BT/DDX3049 only

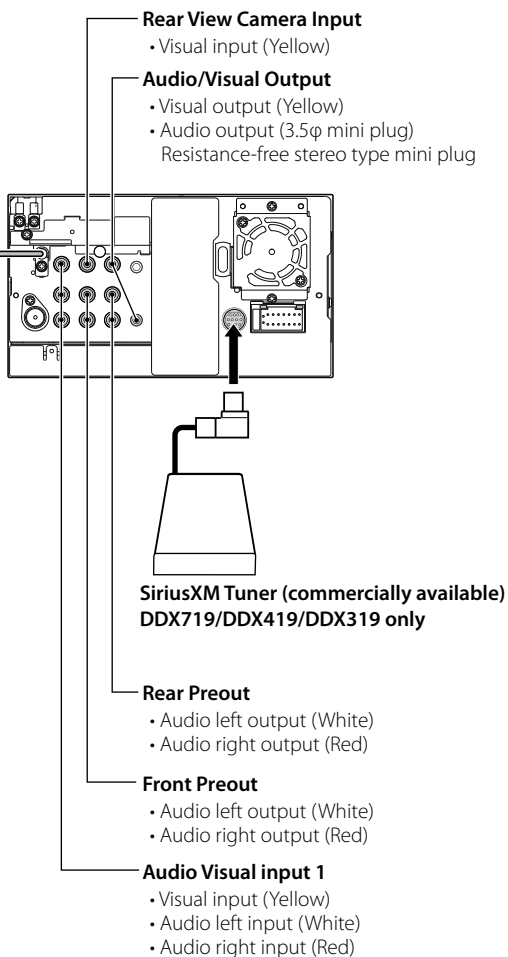


Navigation units that can be connected to this unit.  
(As of December, 2011):

- KNA-G610
- KNA-G630

For latest information, access the [www.kenwood.com/cs/ce/](http://www.kenwood.com/cs/ce/).

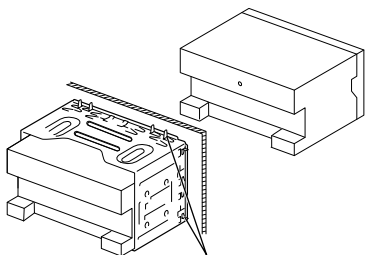
Connection cable  
(Included in the Navigation System)





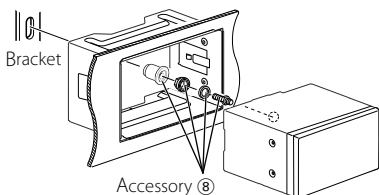
# Installing/Removing the Unit

## Installing the Unit



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

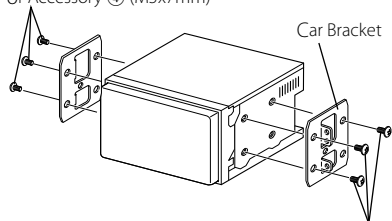
For more stable attachment the unit (DDX719/ DDX7049BT only)



- Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (eg, the sound may skip).

## Installation on Toyota, Nissan or Mitsubishi Car using Brackets

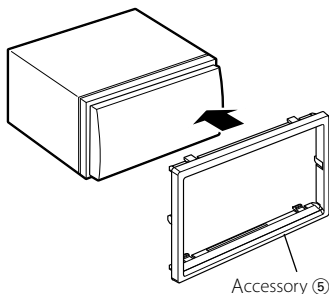
Accessory ③ (M5x6mm)  
or Accessory ④ (M5x7mm)



Accessory ③ (M5x6mm)  
or Accessory ④ (M5x7mm)

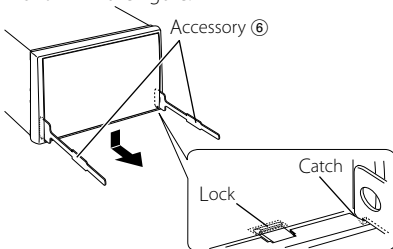
## Installing the Escutcheon

- 1 Attach accessory ⑤ to the unit.



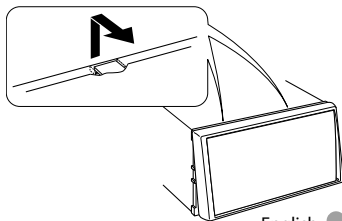
## Removing the Escutcheon (DDX419/DDX4049BT/ DDX319/DDX3049 only)

- 1 Engage the catch pins on the removal tool ⑥ and remove the two locks on the lower level. Lower the frame and pull it forward as shown in the figure.



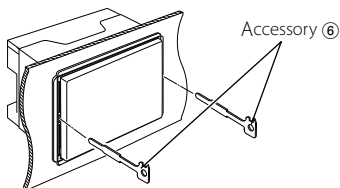
- The frame can be removed from the top side in the same manner.

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

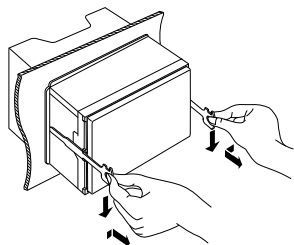


## Removing the Unit (DDX419/DDX4049BT/ DDX319/DDX3049 only)

- 1 Remove the escutcheon by referring to the removal procedure in the section <Removing the Escutcheon>.
- 2 Insert the two removal tools ⑥ deeply into the slots on each side, as shown.

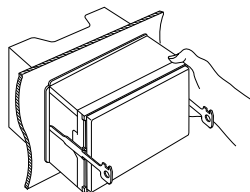


- 3 Lower the removal tool toward the bottom, and pull out the unit halfway while pressing towards the inside.



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

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

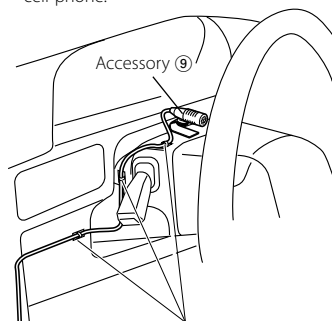


## Installing the Microphone Unit (DDX719/DDX7049BT/ DDX419/DDX4049BT only)

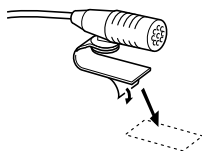
- 1 Check the installation position of the microphone (accessory ⑨).
- 2 Remove oil and other dirt from the installation surface.
- 3 Install the microphone.
- 4 Wire the microphone cable up to the unit with it secured at several positions using tape or the like.



- Install the microphone as far as possible from the cell-phone.



Fix a cable with a commercial item of tape.



Peel the release coated paper of double-face adhesive tape to fix on the place shown above.



Adjust the direction of the microphone to the driver.

# Specifications

## Monitor section

### Picture Size

- : 6.95 inches (diagonal) wide  
156.6 mm (W) × 81.6 mm (H)  
(DDX719/DDX7049BT)
- : 6.1 inches (diagonal) wide  
136.2 mm (W) × 72 mm (H)  
(DDX419/DDX4049BT/DDX319/  
DDX3049)

### Display System

- : Transparent TN LCD panel

### Drive System

- : TFT active matrix system

### Number of Pixels

- : 1,152,000 (800H × 480V × RGB)

### Effective Pixels

- : 99.99%

### Pixel Arrangement

- : RGB striped arrangement

### Back Lighting

- : LED

## DVD player section

### D/A Converter

- : 24 bit

### Audio Decoder

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

### Video Decoder

- : MPEG1/MPEG2/  
DivX (DDX7049BT/DDX4049BT/DDX3049)

### Wow & Flutter

- : Below Measurable Limit

### Frequency Response

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

### Total Harmonic Distortion

- : 0.010% (1 kHz)

### S/N Ratio (dB)

- : 99 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 2.0 Full Speed

### File System

- : FAT 16/32

### Maximum Power Supply Current

- : DC 5 V  1 A

### D/A Converter

- : 24 Bit

### Video Decoder

- : MPEG1/MPEG2/  
DivX (DDX7049BT/DDX4049BT/DDX3049)

### Audio Decoder

- : MP3/WMA/AAC/WAV (Linear PCM)

## Bluetooth section (DDX719/ DDX7049BT/DDX419/DDX4049BT)

### Technology

- : Bluetooth 2.0 Certified

### Frequency

- : 2.402 – 2.480 GHz

### Output Power

- : +4dBm (MAX), 0dBm (AVE), Power  
Class2

### Maximum Communication range

- : Line of sight approx. 10m (32.8 ft)

### Profile

- HFP (Hands Free Profile),  
OPP (Object Push Profile),  
PBAP (Phonebook Access Profile),  
A2DP (Advanced Audio Distribution  
Profile),  
AVRCP (Audio/Video Remote Control  
Profile)

## FM tuner section

### Frequency Range

200 kHz: 87.9 MHz – 107.9 MHz  
(DDX719/DDX419/DDX319)  
50 kHz: 87.5 MHz – 108.0 MHz  
(DDX7049BT/DDX4049BT/DDX3049)

### Usable Sensitivity (S/N: 30 dB)

: 9.3 dBf (0.8  $\mu$ V/75  $\Omega$ )

### Quieting Sensitivity (S/N: 50 dB)

: 15.2 dBf (1.6  $\mu$ V/75  $\Omega$ )

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

: 30 Hz – 15 kHz

### S/N Ratio (dB)

: 70 dB (MONO)

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

:  $\geq$  65 dB

### Stereo Separation

: 40 dB (1 kHz)

## AM tuner section

### Frequency Range (10 kHz)

: 530 kHz – 1 700 kHz

### Usable Sensitivity

: 28 dB $\mu$

## Video section

### Color System of External Video Input

: NTSC/PAL

### External Video Input Level (RCA/mini jack)

: 1 Vp-p/ 75  $\Omega$

### External Audio Max Input Level (RCA/mini jack)

: 2 V/ 25 k $\Omega$

### Video Output Level (RCA jack)

: 1 Vp-p/ 75  $\Omega$

### Audio Output Level (mini jack)

: 1.2 V/ 10 k $\Omega$

### Analog RGB input

: 0.7 Vp-p/ 75  $\Omega$

## Audio section

### Maximum Power (Front & Rear)

: 50 W  $\times$  4

### Full Bandwidth Power (Front & Rear)

(4  $\Omega$ , 14.4 V, 1% THD)

: 22 W  $\times$  4

### Preout Level (V)

: 4 V/10 k $\Omega$

### Preout Impedance

:  $\leq$  600  $\Omega$

### Speaker Impedance

: 4 – 8  $\Omega$

### Tone

Bass: 100 Hz  $\pm$  8 dB

Middle: 1 kHz  $\pm$  8 dB

Treble: 12.5 kHz  $\pm$  8 dB

## General

### Operating Voltage

: 14.4 V (10.5 – 16 V allowable)

### Maximum Current Consumption

: 10 A

### Dimensions (W $\times$ H $\times$ D)

: 182  $\times$  111  $\times$  160 mm

7-3/16  $\times$  4-6/16  $\times$  6-5/16 inch

(DDX719/DDX7049BT)

182  $\times$  112  $\times$  163 mm

7-3/16  $\times$  4-7/16  $\times$  6-7/16 inch

(DDX419/DDX4049BT/DDX319/

DDX3049)

### Operational Temperature Range

:  $-10^{\circ}\text{C}$  –  $+60^{\circ}\text{C}$

### Storage Temperature Range

:  $-20^{\circ}\text{C}$  –  $+85^{\circ}\text{C}$

### Weight

: 2.5 kg (5.5 lbs)

(DDX719/DDX7049BT)

2.0 kg (4.4 lbs)

(DDX419/DDX4049BT/DDX319/

DDX3049)

- 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.
- Specifications are subject to change without notice.

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ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to [vod.divx.com](http://vod.divx.com) for more information on how to complete your registration.
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# KS-UBT1 (USB Bluetooth Adapter)

## Instruction Manual

### ⚠ CAUTION

Changes or modifications not approved by us could void the user's authority to operate the equipment.

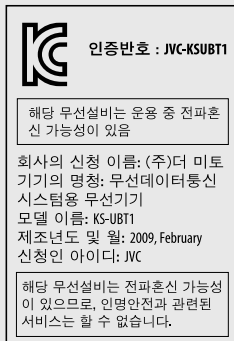
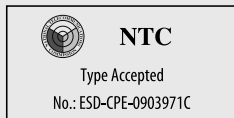
- This adapter has been designed exclusively for use with Kenwood car receivers. Do not use this adapter with any other car receiver. For details, see also the Instructions supplied with your receiver.
- The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by JVC KENWOOD Corporation is under license. Other trademarks and trade names are those of their respective owners.

## Specifications

Bluetooth Version: Bluetooth 2.0 Certified  
Power Class: Class2 Radio  
Service Area: 10 m (10.9 yd)  
USB Standards: USB V1.1 (Full Speed)  
Power Consumption: 54.3 mA/5 V (max.)  
Dimensions (L x W x H):  
15 mm x 19 mm x 5.6 mm  
(5/8" x 3/4" x 1/4")

Keep the Bluetooth adapter inserted when using the Bluetooth function.

When the adapter is removed, store it in a safe place.



Distributor name: JVC KENWOOD DO BRASIL COMERCIO DE ELETRONICOS LTDA  
CNPJ of distributor: JVC KENWOOD DO BRASIL COMERCIO DE ELETRONICOS LTDA  
Manufacturer: JVC KENWOOD Corporation  
Model no.: KS-UBT1  
Brand: JVC



0178-11-6733



(01)07898929117502

"Este equipamento opera em caráter secundário, isto é, não tem direito à proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário."

N49

Approved by TRA

MTC:OFICIO No 8396-2008-MTC/29

CONATEL certificate No: 001516

SUBTEL: 30234/DFRS00045/F-49

Complies with  
IDA Standards  
DB102150

"This telecommunication equipment conforms to NTC technical requirement"

13973/POSTEL/2010  
2366

TEC/WR/1/MOD-08/02/135.APR 08

URSEC 365/FR/2010

CNC 16-9371

## FCC WARNING

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

## FCC NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

## IC (Industry Canada) Notice

This device complies with RSS-210 of industry Canada Rules. Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme au règlement CNR-210 de l'industrie du Canada. L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes:

- (1) il ne doit pas produire de brouillage et
- (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

## CAUTION

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

---

**KENWOOD**



# DDX6021BT/DDX6051BT/DDX4021BT/DDX4051BT/DDX3021/DDX3051/DDX6031BT/DDX6031BTM/DDX6031/ DDX6031M/DDX4031BT/DDX4031BTM/DDX4031/DDX4031M

*English (page 22)*

## **CORRECTION**

**Setting <Drive Select>**

### **Incorrect**

Press [Next] to switch to another USB device when multiple USB devices are connected via a USB hub or the like.

### **Correct**

Press [Next]. Switches between the internal and external memory source of the connected device (such as mobile phone).

*Français (page 22)*

## **CORRECTION**

**Réglage <Drive Select>**

### **Incorrect**

Appuyez sur [Next] pour commuter sur un autre périphérique USB quand plusieurs périphériques USB sont connectés via un concentrateur USB ou un appareil similaire.

### **Correct**

Appuyez sur [Next]. Commute entre la source de mémoire interne et externe du périphérique connecté (tel qu'un téléphone portable).

*Deutsch (seite 22)*

## **FEHLERBEHEBUNG**

**<Drive Select>-Einstellung**

### **Inkorrekt**

Drücken Sie [Next], um auf ein anderes USBGerät umzuschalten, wenn mehrere USB-Geräte über einen USB-Hub o.ä. angeschlossen sind.

### **Korrekt**

Drücken Sie [Next]. Schaltet zwischen interner und externer Speicherquelle des angeschlossenen Geräts (wie ein Mobiltelefon) um.

*Nederlands (pagina 22)*

## **CORRECTIE**

**<Drive Select> instelling**

### **Fout**

Druk op [Next] om naar een ander USB-apparaat over te schakelen indien er meerdere USB-apparaten zijn verbonden via bijvoorbeeld een USB-hub.

### **Juist**

Druk op [Next]. Schakelt tussen de interne en externe geheugenbron van het aangesloten apparaat (bijvoorbeeld een mobiele telefoon).

*Italiano (pagina 22)*

## **CORREZIONE**

**Impostazione <Drive Select>**

### **Non corretto**

Quando all'apparecchio sono collegate più unità USB attraverso uno smistatore (hub), con [Next] si seleziona quella d'interesse.

### **Corretto**

Premere [Next]. Commuta tra le memorie interna ed esterna della periferica connessa, ad esempio il telefono cellulare.

*Español (página 22)*

## **CORRECCIÓN**

**Ajuste <Drive Select>**

### **Incorrecto**

Pulse [Next] para cambiar a otro dispositivo USB cuando hay múltiples dispositivos USB conectados a través de un concentrador USB o similar.

### **Correcto**

Pulse [Next]. Cambia entre las fuentes de memoria interna y externa del dispositivo conectado (como un teléfono móvil).

*Português (página 22)*

## **CORRECÇÃO**

**Definição <Drive Select>**

### **Incorrecto**

Prima [Next] para mudar para outro dispositivo USB quando houver múltiplos dispositivos USB ligados através de um concentrador USB ou algo similar.

### **Correcto**

Prima [Next]. Muda entre a fonte de memória interna e externa do dispositivo conectado (como um telefone celular).

*Українська (сторінка 22)*

## **КОРИГУВАЛЬНА ДІЯ**

**Налаштування <Drive Select>**

### **Неправильно**

Нажміть [Next], чтобы переключить на другое USB-устройство, когда подключено несколько USB-устройств через концентратор USB или другое аналогичное устройство.

### **Правильно**

Нажміть [Next]. Перемикання між внутрішнім та зовнішнім джерелом з пам'яттю підключеного пристрою (наприклад, мобільного телефону).

**DDX6021BT/DDX6051BT/DDX4021BT/DDX4051BT/  
DDX3021/DDX3051/DDX6031BT/DDX6031BTM/  
DDX6031/DDX6031M/DDX4031BT/DDX4031BTM/  
DDX4031/DDX4031M**

*Русский (страница 22)*

**КОРРЕКТИРУЮЩЕЕ**

**ДЕЙСТВИЕ**

**Настройка <Drive Select>**

**Неправильно**

Нажмите [Next], чтобы переключить на другое USB-устройство, когда подключено несколько USB-устройств через концентратор USB или другое аналогичное устройство.

**Правильно**

Нажмите [Next]. Переключение между внутренним и внешним источником с памятью подсоединенного устройства (например, мобильного телефона).

*中文 (第22页)*

**更正**

**设定 <Drive Select>**

**错误**

当多个 USB 装置经 USB 集线器或类似元件连接时, 按 [Next] 键切换至另一个 USB 装置。

**正确**

按 [Next]。在所接装置 (如移动电话) 的内外存储源间进行切换。

*عربي (صفحة ٢٢)*

**تصحيح**

**إعداد <Drive Select>**

**غير صحيح**

اضغط على [Next] للتبديل إلى جهاز USB آخر في حالة توصيل أجهزة USB عديدة من خلال موزع USB أو ما شابه.

**صحيح**

اضغط على [Next]. التبديل بين مصدر الذاكرة الداخلي والخارجي للجهاز المتصل (مثل الهاتف الجوال).

**DDX719/DDX7049BT/DDX419/DDX4049BT/DDX319/  
DDX3049**

*English (page 23)*

**CORRECTION**

**Setting <Drive Select>**

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Appuyez sur [Next]. Commute entre la source de mémoire interne et externe du périphérique connecté (tel qu'un téléphone portable).

*Español (página 23)*

**CORRECCIÓN**

**Ajuste <Drive Select>**

**Incorrecto**

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**Correcto**

Pulse [Next]. Cambia entre las fuentes de memoria interna y externa del dispositivo conectado (como un teléfono móvil).

*Português (página 23)*

**CORRECÇÃO**

**Definição <Drive Select>**

**Incorrecto**

Prima [Next] para mudar para outro dispositivo USB quando houver múltiplos dispositivos USB ligados através de um concentrador USB ou algo similar.

**Correcto**

Prima [Next]. Muda entre a fonte de memória interna e externa do dispositivo conectado (como um telefone celular).

## MILITARY

Units purchased through the U.S.A. military exchange service overseas may be serviced under warranty in the continental U.S.A., subject to the following conditions.

- 1) The original warranty is in effect.
- 2) Proof of purchase is provided to the servicer.

### WARRANTY FOR MILITARY MARKET

Kenwood corporation is proud of the quality and workmanship of its audio equipment. This unit has been properly designed, tested and inspected before it was shipped to you. If properly installed and operated in accordance with instructions furnished, it should give you an optimum reliable performance.

### WARRANTY PERIOD

This product is warranted for a period of (1) year from the date of the original purchase.

### SCOPE OF WARRANTY

Except as specified below, this warranty covers all defects in materials and workmanship of the Kenwood brand products.

During the warranty period, any authorized Kenwood Service Center in the military market listed in the back of this warranty card will provide you free-of-charge both parts and labor required to correct any defect in materials or workmanship.

The following are not covered by this warranty.

1. Voltage conversions.
2. Periodic check-ups which do not disclose any defect covered by the warranty.
3. Cabinets, grilles, other exterior finishes, belts, tape heads, and other non-durable parts and accessories.
4. Units on which the serial number has been effaced, modified or removed.
5. Installation and/or removal charges.
6. Damaged magnetic tapes.
7. House call charges for any repairs.
8. Shipping or delivery charges to or from an authorized Kenwood Service Center.
9. This warranty will not cover any failure that is due to any of the following conditions in accordance with the visual inspection of the authorized Kenwood Service Center:
  - \* Improper maintenance or repair, including the installation of parts or accessories that do not conform to the quality and specifications of the original parts.
  - \* Misuse, abuse, neglect, unauthorized product modification or failure to follow instructions contained in the Owner's Manual.
  - \* Accidental or intentional damages.
  - \* Repairs or attempted repairs by an unauthorized agency. (All repairs must be performed at an authorized Kenwood Service Center.)
  - \* Damages or deteriorations caused during shipment (Claims must be presented to the carrier).
  - \* Damages or deteriorations resulting from removal and/or replacement.

### PURCHASER'S RESPONSIBILITIES

As the purchaser of a new Kenwood brand product, you are requested to do the following in order to obtain Kenwood warranty service.

1. Retain your sales slip or other evidence of purchase for proving your eligibility for requesting Kenwood warranty service.
2. Make your unit available to an authorized Kenwood Service Center in the military market for inspection and approved warranty service, or ship your unit in its original carton box or equivalent, fully insured and shipping charges prepaid, to the authorized Kenwood Service Center.

### LIMITATION OF IMPLIED WARRANTIES

Any and all implied warranties, including warranties of merchantability and fitness for a particular purpose, shall be limited in duration to the length of this warranty.

### EXCLUSION OF CERTAIN DAMAGES

KENWOOD's liability for any defective product is limited to the repair or replacement of said product, at our option, and shall not include damages of any kind, whether incidental, consequential or otherwise, except to the extent prohibited by applicable law.

### KENWOOD AUTHORIZED SERVICE CENTERS IN MILITARY MARKET

#### JAPAN:

##### Yokota

Kenwood Rep.; c/o  
Yokota BX, JAAX AAFES-PAC,  
APO San Francisco 96328

##### Zama

Kenwood Rep.; c/o  
Zama PX, JAAX AAFES-PAC,  
APO San Francisco 96343

##### Misawa

Kenwood Rep.; c/o  
Misawa BX, JAAX AAFES-PAC,  
APO San Francisco 96519

##### Yokosuka

Kenwood Rep.; c/o  
A-33, Yokosuka NEX No. 260-010  
FPO Seattle 98760

##### Atsugi

Kenwood Rep.; c/o  
Atsugi NEX No. 260-020 FPO Seattle  
98767

##### Iwakuni

Kenwood Rep.; c/o  
Marine Corps Exchange, Marine Corps  
Air Station,  
FPO Seattle 98764

##### Sasebo

Sasebo NEX;  
Navy Exchange 260-040  
F.A. Box 115 FPO Seattle 98766

##### Okinawa

Kenwood Rep.; c/o  
OWAX, AAFES-PAC, APO San Francisco  
96230

#### KOREA:

Kenwood Rep.; c/o  
KOAX Repair Shop, AAFES-PAC  
DD-Camp Market, APO San Francisco  
96488

#### GUAM:

Kenwood Rep.; c/o  
Guam NEX No. 230-010,  
FPO San Francisco 96630  
Kenwood Rep.; c/o  
GUAX, AAFES-PAC, APO San Francisco  
96334

#### U.S.A.:

##### Hawaii

Kenwood Factory Service  
99-994 Iwaena St., Aiea, Hawaii 96701

##### Alaska

Vista Radio TV.;  
861 East Loop Road, Anchorage, Alaska  
99501  
Anchorage Commercial Electronics, Inc.;  
1450 East 9th Ave., Anchorage, Alaska  
99501

##### In The Continental U.S.A.

For Nearest Authorized Service Center;  
Tel: 1-800-536-9663

##### Kenwood Service U.S.A.

Kenwood Factory Service;  
P.O. Box 22745, 2201 East Dominguez  
Street,  
Long Beach, California 90801-5745  
Tel: (310) 639-5300

##### EUROPE:

Please inquire at the military resale  
outlets where you bought your Kenwood  
products, or  
KENWOOD ELECTRONICS  
DEUTSCHLAND GMBH:  
Rembrücker-Str. 15, 63150 Heusenstamm,  
Germany  
Tel.: 49-06104-69010

# KENWOOD

# Warranty Card

Identification du produit  
Modelo do aparelho e numero de série  
Model number & serial number

Revendeur & cachet  
Nome da loja e carimbo  
Dealer & stamp

Date d'achat  
Data da compra  
Purchase date

Nom & adresse du client  
Nome e endereço do cliente  
Name & address of customer

### Attention:

This card and receipt (or invoice) are necessary to purchase a new panel in case of theft or damage.

### Attention:

Vous aurez besoin de cette carte et du reçu (ou de la facture) pour acheter un nouveau panneau en cas de vol ou d'endommagement.

### Atenção:

Em caso de dano ou perda do painel frontal, este Certificado de Garantia e a Nota Fiscal de compra serão requisitados para a aquisição de um novo painel.

© B46-0824-00/00 (K) (11/08)

Dear Customer,

Thank you for purchasing this kenwood product. As mentioned in the pages of this booklet, our warranty is only valid in the countries listed. If your country is not listed please contact your retailer for information on warranty procedure, or write to:

### JVC KENWOOD Customer Information Center

3-12, Moriyacho, Kanagawa-ku, Yokohama-shi, Kanagawa 221-0022, Japan

**U.S.A. KENWOOD USA CORPORATION**

This warranty will be honored only in the U.S.A.

**KENWOOD LIMITED WARRANTY FOR CAR STEREO COMPONENTS**

**HOW LONG IS THE WARRANTY**

Kenwood U.S.A. Corporation ("Kenwood") warrants this product for a period of one (1) year from the date of original purchase.

**WHAT IS COVERED AND WHAT IS NOT COVERED**

Except as specified below, this warranty covers all defects in material and workmanship in Kenwood car stereo components. The following are not covered by the warranty:

- 1. Any product which is not distributed in the U.S.A. by Kenwood or which is not purchased in the U.S.A. from an authorized Kenwood car stereo dealer or an automobile dealer, unless the product is purchased through the U.S.A Military Exchange Service.
2. Any product on which the serial number has been defaced, modified or removed.
3. Damage, deterioration or malfunction resulting from:
a. Any shipment of the product (claims must be presented to the carrier).
b. Installation or removal of the product.
c. Accident, acts of nature, misuse, abuse, neglect, unauthorized product modification or failure to follow instructions supplied with the product.
d. Repair or attempted repair by anyone not authorized by Kenwood.
e. Any other cause which does not relate to a product defect.

**WHO IS PROTECTED**

This warranty is enforceable only by the original purchaser.

**WHAT WE WILL PAY FOR**

We will pay for all labor and material expenses for covered items. Payment of shipping charges is discussed in the next section of this warranty.

**HOW TO OBTAIN WARRANTY SERVICE**

If your KENWOOD product ever needs service:

- 1. Take or ship it to any KENWOOD Authorized Service Center in the U.S.A. along with a complete description of the problem. (If you are uncertain as to whether a Service Center is authorized, please call 1-800-KENWOOD for the nearest Service Center. 1-800-536-9663).
2. Although you must pay any shipping charges if it is necessary to ship the product for warranty service, we will pay the return shipping charges if the repairs are covered by the warranty within the United States.
3. Whenever your units are taken or sent for warranty service, you must include a copy of the original dated sales receipt as proof of warranty coverage.

**LIMITATION OF IMPLIED WARRANTIES**

ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

**EXCLUSION OF DAMAGES**

KENWOOD'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT AT OUR OPTION. KENWOOD SHALL NOT BE LIABLE FOR:

- 1. INSTALLATION OR REMOVAL CHARGES, DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN KENWOOD CAR STEREO COMPONENTS, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT; OR
2. ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.
SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If a problem develops during or after the Limited Warranty Period, or if you have any questions regarding the operation of the product, you should contact your KENWOOD Authorized Dealer or Authorized Service Center. If the problem or your question is not handled to your satisfaction, please contact our Customer Relations Department at the address listed below:

**KENWOOD USA CORPORATION**
**P.O. Box 22745, 2201 East Dominguez**
**Street, Long Beach, CA 90801-5745**
**Tel: (310) 639-5300**

**BRASIL JVC KENWOOD DO BRASIL COMERCIO DE ELECTRONICOS LTDA.**

O fabricante garante o produto identificado na Nota Fiscal de venda ao consumidor contra qualquer defeito de fabricação ou de matéria-prima durante o período de garantia. Esta garantia é válida no território brasileiro, condicionado ao uso correto do aparelho conforme o manual de instruções.

**PERÍODO DE GARANTIA**

Este produto é garantido pelo prazo de 01 (um) ano, incluindo o período estabelecido por lei, a partir da data de aquisição, comprovada mediante a apresentação da respectiva Nota Fiscal de venda ao consumidor final. Eventuais reparos realizados no produto durante o período de garantia não implicam na dilatação do seu prazo.

**EXCLUSÃO DA GARANTIA**

- (a) Produtos com o número de série ou certificado de garantia rasurados, adulterados ou ilegíveis;
(b) Defeitos resultantes de acidentes (quedas, batidas e etc), uso em desacordo com o manual de instruções, má utilização, ligação à fonte de tensão diferente da especificada no Manual de Instruções, modificações não autorizadas;
(c) Danos causados por agentes da natureza (Ex: Chuvas, raios, maresia, enchentes e etc);
(d) Defeitos ou danos em decorrência de consertos realizados por pessoas não autorizadas;
(e) Defeitos ou danos resultantes do uso de peças ou dispositivos não conformes às especificações da Kenwood;
(f) Danos ou deteriorações aos acabamentos externos, partes cosméticas, cabos, adaptadores, antenas, fitas, cabeças gravadoras, CDs ou danos causados por pilhas defeituosas ou com vazamento;
(g) Defeitos ou danos devido ao transporte (reclamações devem ser feitas junto à empresa transportadora);
(h) Qualquer outra causa que não esteja relacionada a defeitos de matéria-prima e de fabricação;
(i) Danos causados por tentativa de roubo ou furto;
(j) Danos causados por uso de CDs de má qualidade.

**CONCERTO EM GARANTIA**

É indispensável a apresentação deste Certificado de Garantia devidamente preenchido, acompanhado da respectiva Nota Fiscal de compra do produto.

**O QUE NÃO É COBERTO PELA GARANTIA**

Instalação e remoção do produto, despesas de frete, seguro e embalagem são de responsabilidade do proprietário.

**JVC KENWOOD DO BRASIL COMERCIO DE ELECTRONICOS LTDA.**
**Tel: 0800-7717270**
**www.kenwood.com.br**

**CANADA KENWOOD ELECTRONICS CANADA INC.**

**KENWOOD WARRANTY**

KENWOOD ELECTRONICS CANADA INC. (hereinafter called "KENWOOD"), gives the following written warranty to the original customer of each new Kenwood product distributed in Canada by KENWOOD and purchased from a dealer authorized by KENWOOD.

KENWOOD warrants that each new Kenwood product, under normal use, is free from any defects, subject to the terms and conditions set forth below. If a defect should occur within the warranty period, repairs will be made free of charge for parts and labour when such defects are determined by KENWOOD or its' authorized service centres to be attributable to faulty materials or workmanship at time of manufacture. Please contact KENWOOD to confirm if a dealer or service centre is authorized by KENWOOD.

**WARRANTY PERIOD**

This Kenwood product is warranted for parts and labour for a period of one (1) year from the date of original purchase, lease or rental, except for products which are used in a professional or commercial application, which are warranted for a period of ninety (90) days for parts and labour and are subject to the terms and conditions of the warranty.

**WARRANTY EXCLUSIONS**

This warranty excludes:

- (a) Products purchased in a foreign country or purchased in Canada and taken to a foreign country.
(b) Products purchased from a dealer not authorized by KENWOOD.
(c) Products with the serial number defaced, altered or missing.
(d) Periodic check-ups which do not disclose any defects covered by this warranty.

(e) Defects resulting from disaster, accident, abuse, misuse, lightning, power surges, neglect or lack of periodic maintenance, unauthorized modification or failure to follow instructions in the owner's manual.

- (f) Defects or damage as a result of repairs performed by a person or party not authorized by KENWOOD.
(g) Defects resulting from the use of parts or devices that do not conform to KENWOOD specifications.
(h) Damage or deterioration occurring to any exterior finishes, cosmetic parts, tape heads, adaptors, antennas, cables, tapes, discs or faults or damage caused by defective or leaking batteries.
(i) Defects or damage occurring during shipping (claims should be presented to the shipping company).
(j) Product voltage and/or line frequency conversions.
(k) Product installation or removal charges.

**TO OBTAIN WARRANTY SERVICE**

Should your Kenwood product require warranty service, deliver it to any authorized KENWOOD service centre and present the original copy of your bill of sale and this warranty card as proof of warranty, or send your product fully insured and freight prepaid to the nearest authorized KENWOOD service centre. To avoid possible shipping damage, make sure the product is properly packed. Include a copy of your original bill of sale and this warranty card as proof of warranty along with your name, home and/or work telephone number(s), a complete return address and a detailed description of the fault(s). Products repaired within warranty will be returned freight prepaid to destinations within Canada. The customer is responsible for all freight and related costs for the return of product(s) to destinations outside Canada.

**ENTIRE WARRANTY**

This warranty constitutes the entire written warranty given by KENWOOD. No person, party, dealer or service centre or their agents or employees are authorized to extend or enlarge this warranty on behalf of KENWOOD by any written or verbal statement or advertisement or promotion, including any extended warranty program or plan that may be offered by the dealer or service centre, unless approved in writing by KENWOOD.

**DISCLAIMER**

KENWOOD disclaims any responsibility for loss of time or use of the product or any other indirect, incidental or consequential damage to other products or goods, inconvenience or commercial loss.

**NOTICE TO CONSUMER**

The provisions contained in this written warranty are not intended to limit, modify, take away, disclaim or exclude any warranties or rights you may have which are set forth in any applicable provincial or federal laws or legislation.

**IMPORTANT**

This warranty card by itself is not considered by KENWOOD as a valid proof of purchase. When applying for warranty repairs, you must present the original copy of your bill of sale and this warranty card as proof of warranty, so we recommend that they be kept in a safe place, should they be required in the future.

**KENWOOD ELECTRONICS CANADA INC.**
**6070 Kestrel Road, Mississauga,**
**Ontario, Canada L5T 1S8**
**Tel.: (905) 670-7211**
**Fax: (905) 670-7248**

**GARANTIE KENWOOD**

KENWOOD ELECTRONICS CANADA INC. (ci-après appelée "KENWOOD"), donne par écrit la garantie suivante à l'acheteur original de chaque nouveau produit Kenwood distribué au Canada par KENWOOD et acheté à un concessionnaire autorisé par KENWOOD.

KENWOOD garantit, sous réserve des termes et des conditions énoncés ci-dessous, que chaque nouveau produit Kenwood, dans des conditions d'emploi normales, est exempt de tous défauts. Si l'un défaut se produit pendant la période de garantie, KENWOOD s'engage à assumer le coût des pièces défectueuses et de la main-d'œuvre nécessaires pour effectuer les réparations pourvu que de tels défauts sont attribuables à des pièces défectueuses employées lors de la fabrication du produit Kenwood ou à la main-d'œuvre tel qu'établi par KENWOOD ou par l'un de ses centres de service autorisés. Appelez KENWOOD pour vérifier si un concessionnaire ou un centre de service est autorisé par KENWOOD.

**PÉRIODE DE GARANTIE**

Les pièces et la main-d'œuvre nécessaires pour la réparation des produits Kenwood sont garanties pendant la période d'un (1) an à compter de la date d'achat, de bail ou de location originale, sauf dans les cas où les produits Kenwood sont employés dans un but professionnel ou commercial, où la garantie des pièces et de la main-d'œuvre demeure en vigueur pendant une période de quatre-vingt-dix (90) jours sous réserve des termes et des conditions de la garantie.

**EXCLUSIONS DE GARANTIE**

Cette garantie ne couvre pas:

- (a) les produits achetés à l'étranger ou achetés au Canada et transportés à l'étranger;
(b) les produits achetés à un concessionnaire non autorisé par KENWOOD;
(c) les produits dont le numéro de série manque, a été effacé ou modifié;
(d) les services d'entretien périodiques qui n'indiquent aucun défaut couvert par cette garantie;

(e) les défauts causés par les désastres, les accidents, les abus, les emplois incorrects, les éclairs, les surtensions de courant, les manques de soins ou d'entretiens périodiques, les modifications non autorisées ou les manques de respect du mode d'emploi;

- (f) les défauts ou les dommages causés lors de réparations effectuées par une personne ou par une partie non autorisée par KENWOOD;
(g) les défauts causés par l'emploi de pièces ou de dispositifs qui ne se conforment pas aux exigences de KENWOOD;
(h) les finitions extérieures, les pièces cosmétiques, les têtes de bandes, les adaptateurs, les antennes, les câbles, les bandes, les disques endommagés ou déperis, ni les défauts ou dommages causés par des piles défectueuses ou qui fuient;
(i) les défauts ou dommages qui se produisent pendant l'expédition des produits Kenwood (On devrait déposer de telles réclamations auprès des compagnies de transport);
(j) les conversions de tension et/ou de fréquence du produit;
(k) les frais d'installation ou d'enlèvement du produit.

**COMMENT OBTENIR DU SERVICE SOUS GARANTIE**

Au cas où un service sous garantie de votre produit Kenwood s'avère nécessaire, veuillez livrer le produit à l'importe quel centre de service KENWOOD et présenter la copie originale du contrat de vente et cette carte de garantie en tant que preuve de garantie ou veuillez faire parvenir votre produit assuré et port payé au centre de service KENWOOD autorisé le plus proche. Pour éviter toutes possibilités de dommages pendant le transport, veuillez bien emballer le produit. Veuillez inclure une copie du contrat de vente original et cette carte de garantie en tant que preuve de garantie aussi bien que votre nom, numéros de téléphone au poste de travail et/ou au domicile, votre adresse et une description détaillée des défauts. Les produits sous garantie réparés seront retournés port payé aux destinations à l'intérieur du Canada. Le consommateur sera responsable de tous frais de transport et d'autres frais qui s'y rapportent pour faire expédier les produits à destinations à l'extérieur du Canada.

**L'ENTIÈRE GARANTIE**

Cette garantie représente l'entière garantie donnée par écrit par KENWOOD. KENWOOD ne se tient aucunement responsable de toutes extensions ni de toutes augmentations de cette garantie faites ou entreprises par toutes personnes, parties, concessionnaires ou centres de service ou par leurs agents ou employés au nom de KENWOOD au moyen d'affirmations verbales ou écrites, d'annonces ou de promotions, y inclus tous programmes ou plans de garantie étendue que puissent offrir les concessionnaires ou les centres de service, à moins que KENWOOD n'y ait consenti par écrit d'avance.

**RENONCIATION**

KENWOOD renonce à toutes responsabilités de perte de temps, d'emploi du produit, de tous dommages indirects ou accessoires causés à d'autres produits ou biens, de tous inconvénients ou de toutes pertes commerciales.

**AVIS AUX CONSOMMATEURS**

Les stipulations contenues dans la présente garantie écrite n'ont pas pour but de limiter, de modifier, de diminuer, de rejeter ni d'exclure d'autres garanties ni droits énoncés dans n'importe quelles lois ou législations provinciales ou fédérales.

**IMPORTANT**

KENWOOD ne considère pas cette garantie toute seule comme étant une preuve d'achat valide. Lorsqu'on demande du service sous garantie, il faudra présenter la copie originale du contrat de vente aussi bien que cette carte de garantie en tant que preuve de garantie. On recommande de les conserver dans un lieu sûr au cas où elles s'avèreraient nécessaires à l'avenir.

**KENWOOD ELECTRONICS CANADA INC.**
**6070 Kestrel Road, Mississauga,**
**Ontario, Canada L5T 1S8**
**Téléphone: (905) 670-7211**
**Télécopieur: (905) 670-7248**

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