Playable disc types

Disc type	Recording format, file type, etc.	Playable
DVD • DTS sound cannot be reproduced or output from this unit.	DVD Video (Region Code: 1) *[1]* ALL 1 1 2 1 2 3 4	✓ **OK**
	DVD Audio	✕ **NO**
	DVD-ROM	
DVD Recordable/Rewritable (DVD-R/-RW[2]**, +R/+RW**[3]**)** • DVD Video: UDF bridge • DVD-VR • MP3/WAV: ISO 9660 level 1, level 2, Romeo, Joliet	DVD Video	✓ **OK**
	DVD-VR *[4]*	
	MP3/WAV	
	JPEG	✕ **NO**
	WMA/AAC	
	DivX/MPEG1/MPEG2/MPEG4	
	DVD+VR	
	DVD-RAM	
Dual Disc	DVD side	✓ **OK**
	Non-DVD side	✕ **NO**
CD/VCD	Audio CD/CD Text (CD-DA)	✓ **OK**
	VCD (Video CD)	✕ **NO**
	DTS-CD	
	SVCD (Super Video CD)	
	CD-ROM	
	CD-I (CD-I Ready)	
CD Recordable/Rewritable (CD-R/-RW) • ISO 9660 level 1, level 2, Romeo, Joliet	CD-DA	✓ **OK**
	MP3/WAV	
	WMA/AAC	✕ **NO**
	JPEG	
	DivX/MPEG1/MPEG2	
	MPEG4	

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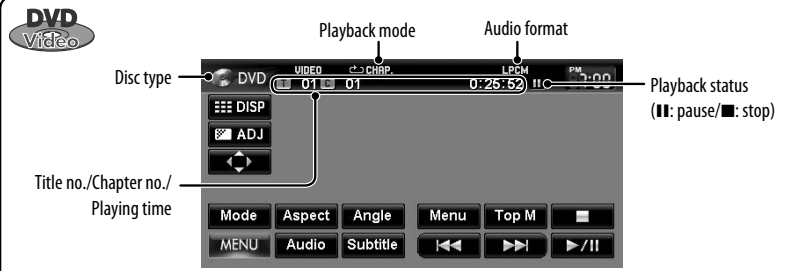*[4] This unit cannot play back contents protected with CPRM (Content Protection for Recordable Media).*

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Disc operations

Only for DVD Video/DVD-VR:
Pressing DISP or touching the screen shows the operating buttons and playback information on the screen. The operating buttons and playback information disappear by pressing DISP or when no operation is done for about 5 seconds.
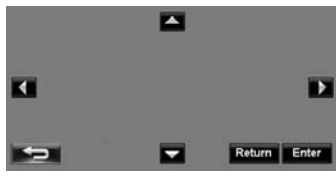
DVD Video

Playback mode · · · Audio format

Disc type · · · · · · · Playback status (▌▌: pause/■: stop)

Title no./Chapter no./ Playing time

[▶ / ▌▌]	Starts playback/pauses.	[☰☰☰ DISP]	Hides/displays the operating
[■]	Stops playback.		buttons on the screen.
[I◄◄] [►►I]	*Press*: Selects chapter.	[▨ ADJ]	Adjusts the picture. (☞ page 68)
	Hold: Reverse/forward search.	[◄♦►]	Displays the menu selecting
	(Search speed: x2 ⟹ x10)		screen. (☞ below)
[**Aspect**]	Selects aspect ratio. (☞ page 68)	[**Mode**]	• Selects repeat playback mode.
[**Angle**]	Selects view angle.		(☞ page 55)
[**Audio**]	Selects audio language.		• Changes the settings for disc
[**Subtitle**]	Selects subtitle language.		playback. (☞ page 56)
[**Menu**] [**Top M**]	Displays the disc menu.		

Using the menu selecting screen

[▲] [▼] [◄] [►]   Selects the menu items.
[**Enter**]   Confirms the selection.
[**Return**]   Returns to the previous menu.

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.

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DVD VR

VR playback mode—VR-PRG (program) or VR-PLAY (playlist)　Playback mode　Audio format

Disc type

Program no. (or Playlist no.)/Chapter no. (or file no.)/Playing time

Playback status (❚❚: pause/■: stop)

DVD	VR-PRG ⟳ CHAP. ⏹ DIGITAL PM
	01 03 0:00:12 ❚❚ 7:00

⬛ DISP
⬛ ADJ

Mode　Aspect　　Play L　Prog.L　■
MENU　Audio　Subtitle　|◀◀　▶▶|　▶/❚❚

[▶ / ❚❚]	Starts playback/pauses.
[■]	Stops playback.
[|◀◀] [▶▶|]	*Press*: Selects chapter.
	Hold: Reverse/forward search. (Search speed: x2 ⇨ x10)
[**Aspect**]	Selects aspect ratio. (☞ page 68)
[**Audio**]	Selects audio channel (ST: stereo, L: left, R: right).
[**Subtitle**]	Shows (ON)/hides (OFF) the subtitle.
[**Play L**]	Displays the Playlist.
	• For details about DVD-VR format and Playlist, refer to the instructions supplied with the recording equipment.

Playlist
Play list 001	35:03:05
Play list 002	50:02:23
Play list 003	15:02:32
Play list 004	10:02:15
Play list 005	23:02:35

[⬛ DISP]	Hides/displays the operating buttons on the screen.
[⬛ ADJ]	Adjusts the picture. (☞ page 68)
[**Mode**]	• Selects repeat playback mode. (☞ page 55)
	• Changes the settings for disc playback. (☞ page 56)
[**Prog.L**]	Displays the Original Program.

Original Program
Program 001	2010 - 02 - 27
Program 002	2010 - 02 - 27
Program 003	2010 - 02 - 27
Program 004	2010 - 02 - 27
Program 005	2010 - 02 - 27

53

Disc operations

CD

Disc type

Playback mode

Sound mode (☞ page 66)

Track no./Playing time

Playback status (❚❚: pause)

The track information appears when it is recorded.

🎵 Song Name
👤 Artist Name
💿 Album Name

[► / ❚❚]	Starts playback/pauses.	[↓ ↑] [↻]	Selects playback modes. (☞ page 55)
[I◄◄] [►►I]	*Press*: Selects track. *Hold*: Reverse/forward search. (Search speed: x2 ⇨ x10)	[**Mode**]	Changes the settings for disc playback. (☞ page 56)

MP3/WAV

Audio format (MP3/WAV)   Playback mode   Sound mode (☞ page 66)

Disc type

Folder no./Track no./ Playing time

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

Playback status (❚❚: pause)

Tag data appears only when it is recorded.* (Current folder name and file name appear if not recorded.)

🎵 Song Name
👤 Artist Name
💿 Album Name

[► / ❚❚]	Starts playback/pauses.	[↓ ↑] [↻]	Selects playback modes. (☞ page 55)
[I◄◄] [►►I]	*Press*: Selects track. *Hold*: Reverse/forward search. (Search speed: x2 ⇨ x10)	[**Mode**]	Changes the settings for disc playback. (☞ page 56)
[▲] [▼]	Selects folder.	[**List**]	Displays Folder/Track Lists. (☞ page 11)

* *When switching the folder, the folder name and file name appear for about 5 seconds even if tag data is recorded.*

Playing Recordable/Rewritable discs
• This unit can recognize a total of 5 000 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.
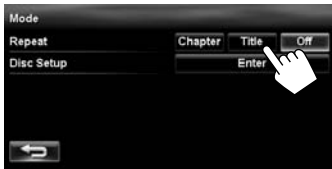• Some discs or files may not be played back due to their characteristics or recording conditions.

Selecting playback modes

For DVD/DVD-VR

1

Playback mode

For CD/MP3/WAV

Playback mode

Selects Random playback mode

Selects Repeat playback mode
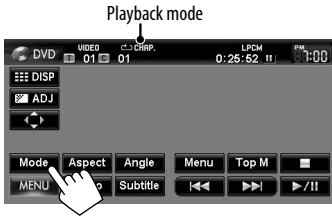
2 **Select Repeat mode.**

- For DVD:

Chapter	Repeats current chapter.
Title	Repeats current title.

- For DVD-VR

Chapter	Repeats current chapter.
Program	Repeats current program (not available for Playlist playback).

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

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

- For CD:

↺TRACK	Repeats current track.
↕DISC	Randomly plays all tracks.

- For MP3/WAV:

↺TRACK	Repeats current track.
↺FOLDER	Repeats all tracks of the current folder.
↕FOLDER	Randomly plays all tracks of current folder, then tracks of next folders.
↕DISC	Randomly plays all tracks.

- Press the button repeatedly until the desired playback mode is selected.

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

EN_KW-NT3[J]5.indb   55   10.3.28   9:57:50 AM

Disc operations

Settings for the disc playback

| Disc Setup items	Selectable settings	Initial: **Underlined**
Menu Language	Select the initial disc menu language; Initial **English** (☞ also page 73).	
Audio Language	Select the initial audio language; Initial **English** (☞ also page 73).	
Subtitle Language	Select the initial subtitle language or erase the subtitle (**Off**); Initial **Off** (☞ also page 73).	
Video Output Format	Select the color system of the external monitor. **NTSC**, **PAL** • This setting is valid only to the external monitor connected.	
Monitor Type 	Select the monitor type to watch a wide screen picture on the external monitor. **16:9** : Select when the aspect ratio of the external monitor is 16:9. **4:3LB** (Letterbox)/**4:3PS** (Pan Scan): Select when the aspect ratio of the external monitor is 4:3. • When you select <**16:9**> for a picture whose aspect ratio is 4:3, the picture slightly changes due to the process for converting the picture width. • Even if <**4:3PS**> is selected, the screen size may become <**4:3LB**> for some discs.	
D. Range Compres.	You can enjoy a powerful sound at a low volume level while playing Dolby Digital software. **Auto** : Select to apply the effect to multi-channel encoded software. **On** : Select to always use this function.	
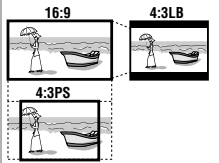
SD/USB operations

This unit can play the MP3/WMA files stored in SD card/USB mass storage class device.
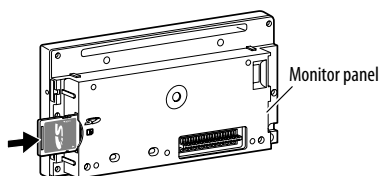• All tracks in the SD card/USB device will be played repeatedly until you change the source.
• Make sure all important data has been backed up.

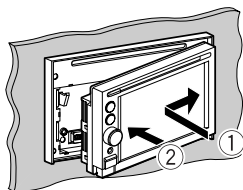## ■ Inserting SD card

1 Detach the monitor panel.
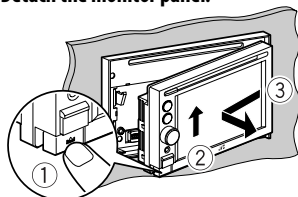
2 Insert an SD card.

Monitor panel

Push in the SD card until you hear a clicking sound.

3 Attach the monitor panel.

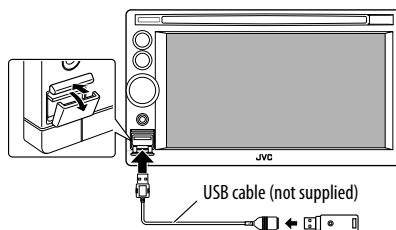The source changes to "SD" and playback starts.

To eject the SD card

Detach the monitor panel, then push in the SD card lightly.

■ Connecting 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 (⬤⟵) terminal of the unit.
• When connecting a USB device, refer also to its instructions.

USB cable (not supplied)

The source changes to "USB" and playback starts.

Caution:

• Avoid using the USB device if it might hinder your safety driving.
• Do not start the car engine if a USB device is connected.
• Do not pull out and attach the USB device repeatedly while "File Check" is shown on the screen.
• Disconnect a USB device while playback is paused or another source is selected.
• Electrostatic shock at connecting a USB device may cause abnormal playback of the device. In this case, disconnect the USB device then reset it and detach the monitor panel (then attach it).
• Do not leave a USB device in the car, expose to direct sunlight, or high temperature to avoid deformation or cause damages to the device.
• For more details about USB operations,
  ☞ page 72.

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SD/USB operations

MP3/WMA   MP3/WMA

Audio format (MP3/WMA)   Playback mode   Sound mode (☞ page 66)

Source type ("SD" or "USB")

Folder no./Track no./ Playing time

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

Playback status (**❙❙**: pause)

Tag data appears only when it is recorded.*[1] (Current folder name and file name appear if not recorded.)

Song Name
Artist Name
Album Name
List

[▶ / ❙❙]	Starts playback/pauses.
[I◀◀] [▶▶I]	*Press*: Selects track. Hold: Reverse/forward search. (Search speed: x10)
[▲] [▼]	Selects folder.
[↓↑]	Selects Random playback mode.*[2]*[3] • ↓↑ **FOLDER**: Randomly plays all tracks of the folder. • ↓↑ **SD**/↓↑ **USB**: Randomly plays all tracks.

| [⟳] | Selects Repeat playback mode.*[2]*[3] • ⟳ **TRACK**: Repeats current track. • ⟳ **FOLDER**: Repeats all tracks of the current folder. |
| [**List**] | Displays Folder/Track Lists. (☞ page 11) |

*[1] *When switching the folder, the folder name and file name appear for about 5 seconds even if tag data is recorded.*
*[2] *To cancel random or repeat mode, press the button repeatedly until the indicator disappears.*
*[3] *You cannot activate the repeat mode and the random mode at the same time.*

• While playing from a USB device, the playback order may differ from other players.
• This unit may be unable to play back some USB devices or some files due to their characteristics or recording conditions.
• This unit may not play back files in a USB device properly when using a USB extension cord.
• This unit cannot assure proper functions or supply power to all types of the devices.

• This unit can recognize a total of 5 000 files and 999 folders (a maximum of 999 files per folder).
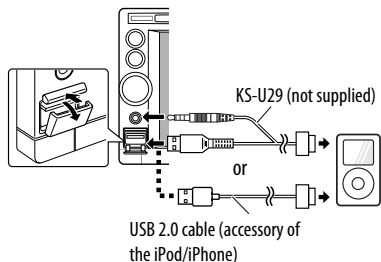
Listening to the iPod/iPhone device

Connecting iPod/iPhone

- Use the following cables:
  - **To listen to the music**: USB 2.0 cable (accessory of the iPod/iPhone)
  - **To watch the video**: USB Audio and Video cable for iPod/iPhone——KS-U29 (not supplied)

KS-U29 (not supplied)

or

USB 2.0 cable (accessory of the iPod/iPhone)

- When you turn on this unit, the iPod/iPhone is charged through the unit.
- You can control the following iPod/iPhone models:
  - iPod with video (5th Generation)*
  - iPod classic*
  - iPod nano (1st Generation)
  - iPod nano (2nd Generation)
  - iPod nano (3rd Generation)*
  - iPod nano (4th Generation)*
  - iPod nano (5th Generation)*
  - iPod touch (1st Generation)*
  - iPod touch (2nd Generation)*
  - iPhone*
  - iPhone 3G*
  - iPhone 3GS*

* *To watch the video with its audio, connect the iPod/iPhone using USB Audio and Video cable (KS-U29, not supplied).*

Setting the iPod control mode and the speed of the audio books

Audiobooks
Select the speed of audio books.

iPod Control Mode
- When using iPod nano (1st Generation) or iPod with video (5th Generation), only <**Head**> mode is selectable.

Head	Controls playback from this unit.
iPod	Controls audio/video playback from the iPod/iPhone. • Playback information is shown.
Ext	Allows any audio/video signals from iPod/iPhone. • No information is shown.

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 slow, reset your iPod/iPhone.

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Listening to the iPod/iPhone device

- The operations explained in this manual are under <**Head**> mode (☞ page 59).
- When <**iPod**> or <**Ext**> mode is selected, only [**Mode**] is displayed.

Track no./Total track number/Playing time

Playback mode

Sound mode (☞ page 66)

iPod control mode (☞ page 59)

Playback status
(**II**: pause/**■**: stop)

DISP , **ADJ** *[1]

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

Song/video information

♪ Song Name
👤 Artist Name
💿 Album Name

Mode
MENU
List

Aspect *[1]

- You cannot resume playback for video sources under some conditions.

[▶ / **II**]	Starts playback/pauses.	[↺]	Selects Repeat playback mode.*[2]
[I◀◀] [▶▶I]	*Press*: Selects track/video. *Hold*: Reverse/forward search.		• ↺ **ONE**: Functions the same as "Repeat One."
[**List**]	Displays the Music/Video menu on the iPod/iPhone. (☞ page 61)		• ↺ **ALL**: Functions the same as "Repeat All."
[**Aspect**]*[1]	Selects aspect ratio. (☞ page 68)	[**DISP**]*[1]	Hides/displays the operating buttons on the screen.
[↓↑]	Selects Random playback mode.*[2]	[**ADJ**]*[1]	Adjusts the picture. (☞ page 68)
	• ↓↑ **SONGS**: Functions the same as "Shuffle Songs."	[**Mode**]	Changes the iPod control mode or speed of audio books. (☞ page 59)
	• ↓↑ **ALBUMS**: Functions the same as "Shuffle Albums."		

*[1] *Appears only when video is played back.*
*[2] *To cancel random or repeat mode, press the button repeatedly until the indicator disappears.*

- When playing back a track containing Artwork, operating buttons temporarily disappear while loading its Artwork.

Notice:
When operating an iPod/iPhone, some operations may not be performed correctly or as intended. In this case, visit the following JVC web site: <http://www.jvc.co.jp/english/car/> (English website only)

If the iPod/iPhone does not play correctly, update your iPod/iPhone software to the latest version. For details about updating your iPod/iPhone, visit <http://www.apple.com/>.

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

1

Mode MENU List

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

Music menu:

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

Corresponding icon lights in orange. (♫: Music / ▤ : Video)

| Playlists | Artists | Albums | Songs | *1
|---|---|---|---|
| Playlists | All Albums › |
| Artists | Artist1 |
| Albums | Artist2 |
| Songs | Artist3 |
| Genres | Artist4 › |

ABC

Playlists	Artists	Albums	Songs
All Albums	All Songs ›
Artist1	Album001 ›
Artist2
Artist3
Artist4

ABC

Returns to the previous layer

Video menu:

Video Playlists	Movie1
Movies	Movie2
Music Videos	Movie3
TV Shows	Movie4
Video Podcasts	Movie5

*2

ABC

• Available categories depend on the type of your iPod/iPhone.

*1 *You can also select the category by pressing the corresponding tab.*
*2 *These categories are shown in the language selected on your iPod/iPhone.*

<u>**Searching items in the selected category by alphabet and number**</u>

1

Artist4

ABC

2 Display the first character of the title of the item you want to search for (①), then search for an item (②).

Erases the search operation buttons

Playlists	Artists	Albums	Songs
Playlists	All Albums ›
Artists	Artist1 ›
Albums	Artist2 ›
Songs	Artist3 ›
Genres	Artist4 ›

A B C D E ① ② ①

Press the character button repeatedly until the desired item is displayed.

• Only available characters are selectable.
• When selecting other character than the alphabet, press [#].

3 Select the desired item from the list.

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Listening to the satellite radio

Before operating, connect either one of the following (separately purchased) to the satellite unit connector on the rear of this unit.

To listen to the SIRIUS Satellite radio	SC-C1 and KS-SRA100
	PnP, SC-VD0C1 and KS-SRA100
To listen to the XM Satellite radio	JVC Smart Digital Adapter—XMDJVC100
	CNP2000UC and CNPJVC1

■ For SIRIUS Radio

Activate your subscription after connection:

1 **Select "SAT" as the source.** (☞ page 44)
   The SIRIUS Satellite radio starts updating all the SIRIUS channels. (☞ "GCI update" below.)
   • Once completed, SIRIUS Satellite radio tunes in to the preset channel, CH184.

2 **Check your SIRIUS ID.**
   Press [**Mode**] to show SIRIUS ID. (☞ page 63)

3 **Contact SIRIUS on the internet at <http://activate.siriusradio.com/> to activate your subscription, or you can call SIRIUS toll-free at 1-888-539-SIRIUS (7474).**
   "Subscription Updated. Press Any Key to Continue." appears on the screen once subscription has been completed.

■ For XM Radio

Activate your subscription after connection:

• Only Channel 0, 1, and 247 are available before activation.

1 **Select "SAT" as the source.** (☞ page 44)
   XM Tuner* starts updating all the XM channels. "Channel 1" is tuned in automatically. (☞ "GCI update" below.)

   * *XM Tuner: XMDirect™ Tuner Box or XMDirect2 Tuner System*

2 **Check your XM Satellite Radio ID labelled on the casing of the XM Tuner, or tune in to "Channel 0"** (☞ page 63)**.**

3 **Contact XM Satellite radio on the internet at <http://xmradio.com/activation/> to activate your subscription, or you can call 1-800-XM-RADIO (1-800-967-2346).**
   Once completed, the unit tunes in to one of the available channels (Channel 4 or higher).

GCI (Global Control Information) update:
• If channels are updated after subscription, updating starts automatically, and no sound can be heard.
  For SIRIUS : "Updating" appears.
  For XM : "Channel Not Authrized" appears.
• Updating takes a few minutes to complete.

Signal Reception

Preset no.   indicator   Sound mode (☞ page 66)

Band

Channel no./Channel name

Category name

The song information currently received

Only for SIRIUS

[**Band**]	Selects the band.	[▲] [▼]	Selects a preset channel.
	For SIRIUS: SR1 → SR2 → SR3	[◀ **CAT**]	Selects a category.*
	For XM: XM1 → XM2 → XM3	[**CAT** ▶]	
[◀◀] [▶▶|]	*Press*: Selects a channel.	[**List**]	Displays the Category/Channel List.
	Hold: Changes the channel rapidly.	[Direct]	Selects a channel directly.
	– While searching, invalid and unsubscribed channels are skipped.	[DISP]	Switches between preset list screen and tuner source screen.
		[**Mode**]	Only for SIRIUS: Shows the SIRIUS ID.

* *For SIRIUS Radio:*
– *To select a channel from all categories, select <***ALL***>.*
For XM Radio:
– *To select a channel from all categories (including non-categorized channels), press [▲] or [▼].*
– *If you do not select a channel within 15 seconds, the category selected is canceled. You can select a channel from all categories now.*

• To know more about SIRIUS Satellite radio or to sign up, visit <http://www.sirius.com>.
• For the latest channel listings and programming information, or to sign up for XM Satellite radio, visit <http://www.xmradio.com>.
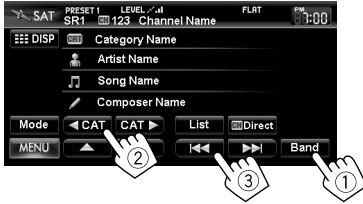
Storing channels in memory ▬▬

You can preset six channels for each band.

1 Tune in to a station you want to preset.
(☞ page 63)

2 Display the preset list. (☞ page 63)

3 Select a preset number.

[Hold]

Selecting preset channels ▬▬

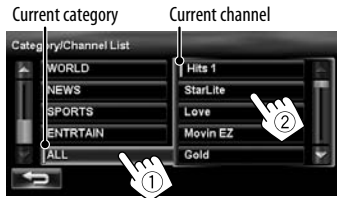Also changes preset channels

Selecting a channel quickly ▬▬

Select a channel from the Category/Channel List

Select a channel directly by entering channel number

Selecting on the list

Select a category (①), then a channel (②) from the selected category.

Current category   Current channel

Selecting a channel directly

Enter the channel number (①), then confirm (②).

Using other external components

Sound mode (☞ page 66)

Source type
("Front AUX" or
"AV-IN")

The following buttons appear while playing video with "AV-IN" selected as the source.

[**Aspect**]   Selects aspect ratio. (☞ page 68)

[**DISP**]   Hides/displays the operating buttons on the screen.

[**ADJ**]   Adjusts the picture. (☞ page 68)

• Select an appropriate setting on <**Front Aux Input**> or <**AV Input**>. (☞ pages 70 and 71)

Front AUX

1 Connect an external component.

AV mini cord (not supplied)
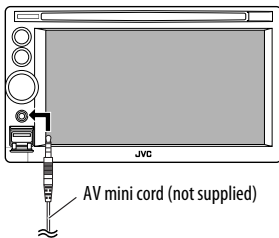
2 Select "Front AUX" as the source.
(☞ page 44)

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

AV-IN

You can connect an external component to the LINE IN/VIDEO IN jacks. (☞ Installation/Connection Manual)

1 Select "AV-IN" as the source. (☞ page 44)

2 Turn on the connected component and start playing the source.

Sound equalization

You can select a preset sound mode suitable to the music genre.
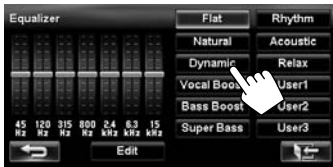You can also customize the sound mode.
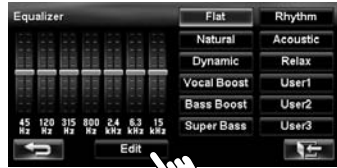
1

2

3 Select a sound mode.

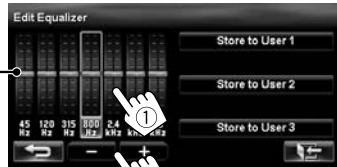## Storing your own adjustments

You can store your adjustments into <**User1**>,
<**User2**>, and <**User3**>.

1 Repeat steps 1 and 2, then in step 3 on the left...

2 Select the frequency (①), then adjust the frequency level (②).

Also adjusts the frequency level

3 Store the adjustment.

66

Changing illumination color

You can change the illumination color of the buttons on the monitor panel.

1

2

3

4 **Select a color.**

Your own color stored (☞ right)

Variable color illumination
• Illumination color changes gradually.

Storing your own adjustments

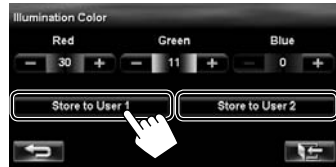• When variable color illumination is selected, you cannot adjust the color.

1 **After selecting a color in step 4 on the left...**

2 **Adjust the color.**

3 **Store the adjustment into <User1> or <User2>.**
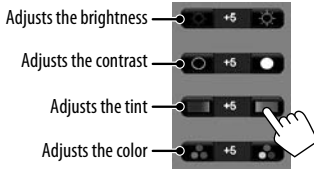
67

Settings for video playback

Picture adjustment

You can adjust the picture quality for video playback such as DVD, iPod video, video from an external component or camera.

1 Display the adjustment menu.

2 Adjust the picture (−5 to +5).

Adjusts the brightness

Adjusts the contrast

Adjusts the tint

Adjusts the color

Changing the aspect ratio

You can change the aspect ratio for video playback.

	4:3 signal	**16:9 signal**
Full: For 16:9 original pictures		
Zoom: For 4:3LB original pictures		
Regular: For 4:3 original pictures		
Auto:	• For "DISC" only: Aspect ratio is automatically selected to match to the incoming signals.	

AV menu items

Switches the category by pressing the corresponding tab

Menu items	Selectable settings	Initial: **Underlined**
Fader/Balance Cursor	Fader: Adjust the front and rear speaker output balance. • **F6** to **R6**; Initial **0** – When using a two-speaker system, set the fader to the center (0). Balance: Adjust the left and right speaker output balance. • **L6** to **R6**; Initial **0** Press [▲/▼/◄/►] or drag the cursor to adjust. • To set the fader and balance to the center (0), press [**Center**].	

(left margin label: Audio)

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Menu items	Selectable settings	Initial: **Underlined**

	Menu items	Selectable settings
Audio	**Equalizer**	**Flat**/Natural/Dynamic/Vocal Boost/Bass Boost/Super Bass/ Rhythm/Acoustic/Relax/User1/User2/User3 (☞ page 66)

	Subwoofer/HPF	Adjust the subwoofer output level, Low Pass Filter, and High Pass Filter. Press [**Enter**] to adjust each setting.
		• **Subwoofer Level**: Adjust the subwoofer output level.
		  Off, **−24dB** to **+20dB**; Initial **0dB**
		• **LPF Frequency**: Adjust the cut-off frequency of low pass filter.*
		  50Hz to **150Hz** (in 10 Hz intervals); Initial **100Hz**
		• **LPF Slope**: Adjust the Q-slope for the low pass filter.*
		  −24dB, **−18dB**, **−12dB**, **−6dB**
		• **HPF Frequency**: Adjust the cut-off frequency of high pass filter.
		  Off, **50Hz** to **150Hz** (in 10 Hz intervals)
		• **HPF Slope**: Adjust the Q-slope for the high pass filter.
		  – Not selectable when <**HPF Frequency**> is <**Off**>.
		  −24dB, **−18dB**, **−12dB**, **−6dB**

	Volume Adjust	Adjust and store the auto-adjustment volume level for each source, comparing to the FM volume level. The volume level will automatically increase or decrease when you change the source. • <**Fix**> appears if an FM broadcast is selected as the source. **−12** to **+12**; Initial **0**
	Adaptive Volume	When this function is activated, the System automatically increases the volume level (both for guidance and for audio) as the car speeds up. **Off**, **Min**, **Mid**, **Max**
	Amplifier Gain	You can change the maximum volume level of this unit. **High**: VOL 0 to 20 (for guidance)/VOL 00 to 50 (for audio) **Low**: VOL 0 to 15 (for guidance)/VOL 00 to 30 (for audio) (Select this if the peak power of the speakers is less than 50 W.) **Off**: Deactivates the built-in amplifier (VOL 0 to 20 for guidance/VOL 00 to 50 for audio.) • If you change this setting from <**High**>/<**Off**> to <**Low**> while the volume level is set higher than the maximum level of <**Low**>, the unit automatically lowers the volume level (guidance: VOL 15/ audio: VOL 30).

* *Not selectable when the* <**Subwoofer Level**> *is* <**Off**>.

AV menu items

Switches the category by pressing the corresponding tab

Menu items	Selectable settings	Initial: **Underlined**
Dimmer	**Off**: Cancels. **On**: Activates dimmer. **Auto**: Dims the screen and the button illumination when you turn on the headlights. • The illumination control lead connection is required. (☞ Installation/Connection Manual) **Time**: Activates the Dimmer Time setting below.	
Dimmer Time	Sets the Dimmer On/Off times.	
Brightness	Adjust the display brightness. **−5** to **+5**; Initial **+5**	
Illumination Color	☞ page 67	
Display Color	Select the color of the bars and buttons on the touch panel.	
Clock on Video/Screen-Off	**On**: The clock time is displayed while video source is played back or the screen is turned off. **Off**: Cancels.	
Off-axis Viewing	Select <**On**> if the screen is hard to see due to the installation angle or position. **On**, **Off**	
Demonstration	This setting will be deactivated and disappear from the menu when the System detects the first car movement. **On**, **Off**	
Front Aux Input	**On**: Select when connecting an audio component to the AUX input terminal on the monitor panel. **Off** *: Select when no audio component is connected ("Front AUX" is not selectable).	

Display is the category label spanning the Display rows; *Input* is the category label spanning the Front Aux Input row.

* Not selectable when the input is selected as the source.

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	Menu items	Selectable settings	Initial: **Underlined**
Input	**AV Input**	You can determine the use of the LINE IN and VIDEO IN jacks. (☞ page 65) **AV**: Select when connecting an AV component such as a camcorder. **Audio**: Select when connecting an audio component such as a portable audio player. **Off** *[1]: Select when no component is connected ("AV-IN" is not selectable).	
	Bluetooth Audio	**On**: Activates "BT Audio" for source selection. **Off** *[1]: Deactivates "BT Audio" for source selection ("BT Audio" is not selectable).	
	Camera Input *[2]	**On**, **Off** (☞ page 83)	
	Reverse Signal Polarity *[2]	**Battery**, **GND** (☞ page 9)	
System	**Language**	Select the language used for on-screen information and voice guidance. **English**, **Español**, **Français**	
	Time Format	**12 Hours**, **24 Hours**	
	Time Zone *[2]	Select your residential area from one of the following time zones for clock adjustment. **Hawaii (UTC−10:00)**, **Alaska (UTC−09:00)**, **Pacific (UTC−08:00)**, **Mountain (UTC−07:00)**, **Central (UTC−06:00)**, **Eastern (UTC−05:00)**, **Atlantic (UTC−04:00)**, **Newfoundland (UTC−03:30)**	
	DST (Daylight Saving Time) *[2]	Activate this if your residential area is subject to DST. **Auto** : Activates daylight saving time. **Off** : Cancels.	
	Beep	Adjust the volume of the key-touch tone. **Off**, **1** to **10**; Initial **5**	
	Startup Message	Edit the voice message at startup/shutdown of the unit.	
	Shutdown Message	• To edit the message, press [**Edit**], enter the message, then press [**OK**]. You can listen to the edited message by pressing [**Test**]. – For entering the characters, ☞ page 11.	
	Startup Screen	Select the startup screen when the power is turned on.	
	Restore Factory Default	Initialize all settings you have made. Press [**Restore**] to initialize the settings. • When restoring the settings, adjust the settings on installation setting screen (☞ page 9).	

*[1] *Not selectable when the input is selected as the source.*
*[2] *The setting varies depending on the installation settings (☞ page 9).*

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Additional information

■ File playback

Playing MP3/WMA*¹/WAV*² files

- This unit can play back files with the extension code <.mp3>, <.wma>, or <.wav> (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
  – Sampling frequency:
    MP3: 48 kHz, 44.1 kHz, 32 kHz
          24 kHz, 22.05 kHz, 16 kHz
    WMA: 48 kHz, 44.1 kHz, 32 kHz, 22.05 kHz
    WAV: 44.1 kHz
- This unit can show ID3 Tag Version 1.0/1.1/2.2/2.3/2.4 (for MP3).
  – ID3 Tag Version 2.4 is not available for SD/USB playback.
- 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 files copy-protected with DRM.

*¹ *WMA files are played only when recorded on a USB device or SD card.*
*² *WAV files are played only when recorded on a disc.*

■ USB

- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 500 mA.
- 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 may not recognize a memory card inserted into the USB card reader.
- Connect only one USB device to the unit at a time. Do not use a USB hub.
- When connecting with a USB cable, use the USB 2.0 cable.

■ Disc information shown on the external monitor

The following screens appear only on the external monitor.
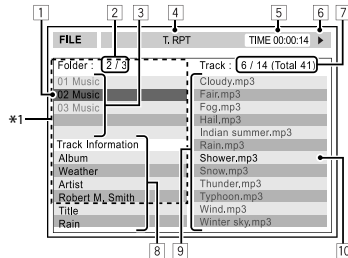
1 Current folder (highlighted) *²
2 Current folder number/total folder number *²
3 Folder list *²
4 Selected playback mode
5 Elapsed playing time of the current track
6 Operation status
7 **CD:** Current track number/total number of tracks on the disc
   MP3/WAV: Current track number/total number of tracks in the current folder
8 Track information
9 Track list
10 Current track (highlighted)

*¹ *If tag data includes "Jacket Picture" (baseline JPEG), it will be displayed.*
*² *Only for MP3/WAV*

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■ Sound signals emitted through the rear terminals

Through the analog terminals (Speaker out/F OUT/R OUT)

2-channel signal is emitted. When playing multi-channel encoded disc, multi-channel signals are downmixed.
• DTS sound cannot be reproduced.

■ Language codes (for DVD language selection)

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

Bluetooth Operations

Information for using Bluetooth® devices

Bluetooth®

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.
• Refer to the list (included in the box) to see the countries where you may use the Bluetooth® function.

Bluetooth profile

This unit supports the following Bluetooth profiles;
• HFP (Hands-Free Profile) 1.5
• OPP (Object Push Profile) 1.1
• PBAP (Phonebook Access Profile) 1.0
• A2DP (Advanced Audio Distribution Profile) 1.2
• AVRCP (Audio/Video Remote Control Profile) 1.3

• Some operations are not available while driving. When you perform 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 Information:

If you wish to receive more information about Bluetooth, visit the following JVC web site: <http://www.jvc.co.jp/english/car/> (English website only)

Warning messages for Bluetooth operations

"Cannot connect. Please connect from your device."	The device is registered but the connection has failed. Connect from your phone, or use <**Connect**> to connect the device again (☞ page 76).
"System can not connect with this device. Please disconnect current device, then connect from this device."	Disconnect the current device, then operate another device to connect.
"System can not connect with this device. Please connect from this device."	Operate the device to connect.
"Pairing Error."	The operation you have tried cannot be completed. Try the operation again.
"Connect error."	
"Disconnect error."	
"Delete error."	
"Memory full."	You have tried to copy a 501st phone book entry. Delete unwanted names before copying.

To check the connection status of a Bluetooth device

indicator appears when a Bluetooth device is connected

Using Bluetooth device

Registering a Bluetooth device

To connect a 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.

- Once you register a Bluetooth device, the device remains registered until the registration is deleted. (☞ page 76)
- 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.

1 Operate the Bluetooth device to turn on its Bluetooth function.

2 Display the Bluetooth setting screen.

   For connecting a Bluetooth mobile phone

   <**Phone Settings**> is displayed.

For connecting a Bluetooth audio player

- To activate "BT Audio" for source selection, ☞ page 71 (<**Bluetooth Audio**>).

<**Mode**> is displayed.

3 Change the PIN code.

- If you skip changing PIN code, go to step **4**.

PIN code (initial: 0000)

Press: Deletes last character
Hold: Deletes all characters

4

75

Using Bluetooth device

5

6 **Operate the Bluetooth device to connect.**

Cancel　　PIN code (initial: 0000)
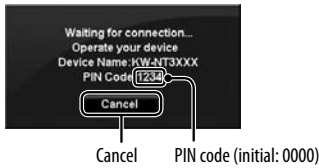
"Connected" appears. Press [**OK**] to confirm the operation.
Now connection is established and you can use the Bluetooth device through the unit.

Connecting/disconnecting a registered Bluetooth device

1 **Display the Bluetooth setting screen.** (☞ page 82)
- For Bluetooth mobile phone: <**Phone Settings**>
- For Bluetooth audio player: <**Mode**>

2 **To connect**

Select the device you want to connect.

: mobile phone /　 : audio player /　 : both mobile phone and audio player

- 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.

Deleting a registered Bluetooth device

Select a device whose registration you want to delete on <Connect Device> (☞ step **2** above)**.**

A confirmation message appears.

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Using Bluetooth mobile phone

Receiving a call

When a call comes in/making a call...

On map screen:

The mobile phone control bars appear.

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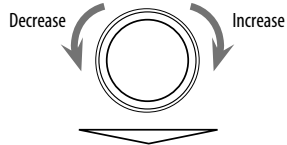

Ends/rejects the call

On AV screen:

Call information (if acquired)

Ends/rejects the call

- Phone operation is not available while the picture from the rear view camera is displayed (☞ page 83).

When <Auto Answer> is set to <On>

The unit answers the incoming call automatically. (☞ page 82)

Adjusting the volume of calls/earpiece

Decrease   Increase

- This adjustment does not affect the volume level of the other sources.
- About the adjustable volume range, ☞ page 69 (<**Amplifier Gain**>).

This adjustment does not affect the microphone volume. It is adjusted automatically.

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Switching between handsfree mode and phone mode

While talking...

Each time you press the button, the talking method is switched. The corresponding indicator lights in orange (🤙: handsfree mode / 🤚: phone mode).

• The call may end automatically when switching to the phone mode, depending on the type of mobile phone.

Making a call

1

2

Hold: Adds "+"

Press: Deletes last character
Hold: Deletes all characters
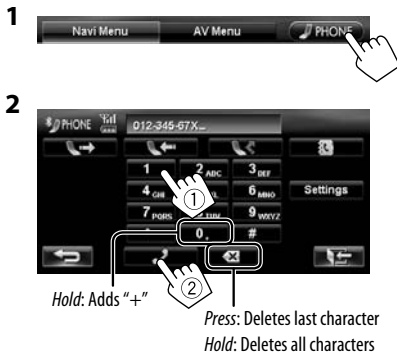
• You can enter up to 30 numbers.

Using the phone book/call lists

[🤙➡]	From dialed call list.
[🤙⬅]	From received call list.
[🤙]	From missed call list.
[📞]	From phone book. • For copying the phone book, ☞ page 79. • For searching for a number, ☞ page 79.

• If your mobile phone is compatible with Phone Book Access Profile (PBAP), ☞ page 80.

Making a call while operating on the navigation system

2800

or
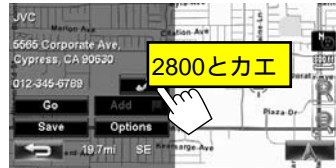
Copying the phone book

You can copy the phone book memory of a mobile phone into the unit (up to 500 memories).

1 Display <Phone Book>.

2

PIN code (initial: 0000)

Numbers of the phone book memories copied

3 Operate the target mobile phone.
- Refer to the instruction manual supplied with your mobile phone.

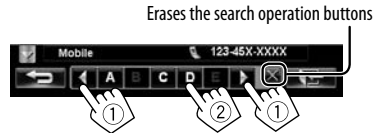- **To cancel the transfer,** press [**Finish**].

4 Finish the procedure.

The phone book memory is copied from the mobile phone.

Searching for a phone number from phone book

1

2 Display the first character of the name you want to search for (①), then search for a name (②).

Erases the search operation buttons

① ② ①

Press the character button repeatedly until the desired item is displayed.

- Only available characters are selectable.
- When selecting other character than the alphabet, press [**#**].

3 Select the phone number to call from the list.

EN_KW-NT3[J]5.indb   79

10.3.28   9:58:19 AM

Deleting the phone number memory in the unit

1 **Display the phone book/call list you want to delete.** (☞ page 78)

2

3 **Select the items to delete (①), then delete them (②).**
- The selected items are marked with "✔."

Selects/deselects all items

A confirmation message appears.

About mobile phone compatible with Phone Book Access Profile (PBAP)

When your mobile phone supports PBAP, phone book and call lists are automatically copied to the unit.
- Phone book: 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   Unit

Using Bluetooth audio player

- To activate "BT Audio" for source selection, ☞ page 71 (<**Bluetooth Audio**>).
- To register a new device, ☞ page 75.
- To connect/disconnect a device, ☞ page 76.

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

Playback mode

Sound mode (☞ page 66)

Playback status (►: play/❚❚: pause)

Track no./Playing time

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

- The operating buttons, indicators and information displayed on the screen differ depending on the connected device.

[►]	Starts playback.	[↓ ↑]	Selects Random playback mode.*
[❚❚]	Pauses.	[↩]	Selects Repeat playback mode.*
[I◄◄] [►►I]	Selects track.	[**Mode**]	Displays the Bluetooth setting
[▲] [▼]	Selects the group. (Works only when the device supports the function.)		screen. (☞ page 82)

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

Bluetooth device settings

For Bluetooth mobile phone

1

2

For Bluetooth audio player

1

2
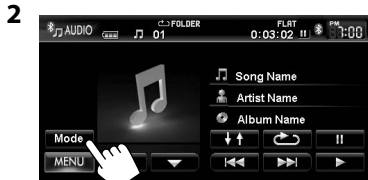
Menu items	Selectable settings Initial: **Underlined**
Connection	**Connect**: ☞ page 76 **Disconnect**: ☞ page 76
PIN Code	Displays the PIN code of the unit. • To change the PIN code, press [**Change**], enter a new PIN code, then press [**OK**].
Device Name	Shows the device name to be shown on the Bluetooth device — "KW-NT3HDT" or "KW-NT3HD."
Device Address	Shows the MAC address of the unit.
Auto Connect	<u>**On**</u>: The connection is automatically established with the last connected Bluetooth device when the unit is turned on. **Off**: Cancels.
Auto Answer*	**On**: The unit answers the incoming calls automatically. <u>**Off**</u>: The unit does not answer the calls automatically. Answer the calls manually.

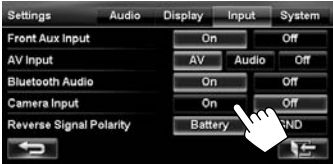* *Appears only for* <**Phone Settings**>.

Rear View Camera Operations

Using a rear view camera

- To use a rear view camera, the reverse gear signal lead connection is required. For connecting a rear view camera, ☞ Installation/Connection Manual.

Activating the rear view camera

1

2

3

To deactivate the rear view camera, select <**Off**> for <**Camera Input**>.

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 display the operating buttons, touch the screen.

Caution message

[DISP]	Hides/displays the operating buttons on the screen.
[ADJ]	Adjusts the picture. (☞ page 68)
[**Bottom**][**Top**]	Adjusts the position of the caution message.

- While picture from the rear view camera is displayed, only volume adjustment and disc ejection are available.
- If the picture from the rear view camera is displayed even though the gear lever is in a position other than reverse (R), press and hold 🔲 or 🔲 to erase the picture from the rear view camera, then try one of the following:
  - Perform steps **1** and **2** in "Activating the rear view camera" (☞ left), then change the <**Reverse Signal Polarity**> setting in step **3**.
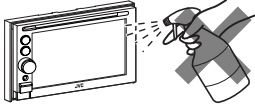 - Check the connection of the reverse gear signal lead.

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References

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.
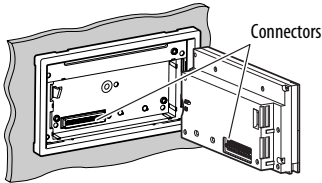
Recommended cleaning method:
Gently wipe the panel with a soft, dry cloth.

■ How to clean the connector

Frequent detachment will deteriorate the connectors. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.

Connectors

■ 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 centre holder of the case and lift the disc out, holding it by the edges.

Centre holder

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

When storing a disc into its case, gently insert the disc around the centre holder (with the printed surface facing up).
• Make sure to store discs into the 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 centre to edge.

• Do not use any solvent (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:

Single CD—8 cm (3-3/16") disc	Warped disc	Sticker and sticker residue	Stick-on label

Unusual shape	C-thru Disc (semi-transparent disc)	Transparent or semi-transparent on its recording area

Troubleshooting/error messages

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).

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	Symptoms	Remedies/Causes
General	No sound comes out of the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	The screen is not clear and legible.	Sunshine from the windshield may cause this symptom. Adjust the picture. (☞ page 68)
	The unit does not work at all.	Detach the monitor panel, then attach it. (☞ page 4)
	The touch panel does not respond properly.	• Keep your hands and the touch panel clean and dry. • Eliminate static electricity and do not place magnetic items near the unit. • Leave the unit until the temperature becomes stable in the car. • A rubber mat on the floor may cause this symptom. In this case, do not use the rubber mat.
	Navigation guidance or AV source is hard to listen to.	Surround noise interferes. Increase the <**Adaptive Volume**> level. (☞ page 69)
	<**Adaptive Volume**> setting has no effect even though it is activated.	Reset the calibration data by selecting <**Reset Calibration Data**>. (☞ page 39)
	CD Text or Tag information of track or song, etc. is not displayed correctly.	The text may not be displayed correctly depending on the condition of recording or the type of the character, etc. though 2-byte and 1-byte characters can be displayed on the unit.
	"System start up failed."	The System cannot start up. Detach the monitor panel, then attach it. (☞ page 4)
Navigation	Guidance does not start.	The System proceeds calibration. Wait until calibration is completed. When calibration is completed, the guidance starts.
	You cannot operate some functions of an AV source on the map screen.	On the map screen, you can operate some limited functions of the current source only. Press AV MAP and operate the source on the AV screen.
	Route calculation seems to have stopped.	Route calculation may take long depending on the route. Wait for a while.

Continued on the next page

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Troubleshooting/error messages

Navigation

Symptoms	Remedies/Causes
Navigation voice cannot be heard from the speakers.	Guidance volume level is set to the minimum level. Adjust it to the optimum level. (☞ page 40)
The voice guidance does not come out from the speaker on the driver's side.	Change the <**Output**> setting. (☞ page 40)
Navigation guidance is sometimes incorrect.	Reversing signal/speed signal leads are not connected. Connect them correctly (☞Installation/Connection Manual).
A POI found using <**POI Name**> in the <**Destination Menu**> is not within the selected city.	This is not a malfunction. The System may also search areas around the selected city/state.
The current position displayed on the map remains wrong for more than 30 minutes.	Check the connection of the following leads. – GPS antenna – Speed signal lead If any disconnection is found, connect the lead again. • If no problems are found with connections, reset the calibration data by selecting <**Reset Calibration Data**>. (☞ page 39)
The distance and estimated time in the guidance are inaccurate after replacing/rotating the tires.	Perform <**Reset Calibration Data**> to clear the accumulated calibration data. (☞ page 39)
"Check GPS Antenna"	Check the connection of the GPS antenna.
"Acquiring GPS Signal"	• Acquiring GPS signals. Wait until signal reception is completed. • GPS signals cannot be received. Move to the place where the System receives the GPS signals.
"Route calculation failed."	Failed to calculate the route. The destination/via point is too far from any road. Select another destination/via point where is close to a road.
"Route calculation is aborted because destination is too far."	The destination/via point is too far from the current position. Select another destination/via point where is nearer to the current position.
"Specified destination is not found."	Valid information is not found in the database. Search for another place. Press [🔲] and search again with different conditions (such as different category or place).
"Speed pulse not detected. System works as GPS only mode until speed pulse is detected."	Check the connection of the speed signal lead.

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	Symptoms	Remedies/Causes
Navigation	"There is no available traffic information now."	No valid traffic information is available now. Try one of the followings: • Move to the place where you can receive traffic service. • No traffic information on your route. Display the list of all traffic information. (☞ page 36)
	"Selected coordinates are out of map area. Please input again."	The coordinates you have entered are not available. Press [**OK**] and input the coordinates again.
HD Radio reception	SSM automatic presetting does not work.	Store stations manually. (☞ page 47)
	Static noise while listening to the radio.	Connect the antenna firmly.
	Sound quality changes when receiving HD Radio stations.	Fix the reception mode either to <**Digital**> or <**Analog**>. (☞ page 46)
	No sound can be heard.	• <**Analog**> is selected when receiving all digital broadcast of HD Radio station. Select <**Digital**> or <**Auto**>. (☞ page 46) • <**Digital**> is selected when receiving weak digital signals or receiving conventional radio broadcast. Select <**Analog**> or <**Auto**>. (☞ page 46)
	The song cannot be tagged.	The HD Radio broadcast does not support iTunes Tagging function or the broadcast does not contain PSD. You can tag the PSD only when the TAG indicator lights up on the screen.
iTunes Tagging	"Memory Full. Connect iPod."	You are trying to store the 101st PSD in the unit. Transfer the tagged PSDs to iPod/iPhone or delete all tagged PSDs from the unit.
	"iPod not support tagging."	The connected iPod/iPhone is not compatible with iTunes Tagging. (☞ page 48)
	"Tags transfer failed."	The iPod/iPhone is disconnected during data transfer.
	"iPod full. Tags can not be stored."	The memory of the iPod/iPhone is full.
Disc in general	Disc can be neither recognized nor played back.	Eject the disc forcibly. (☞ page 4)
	Disc cannot be ejected.	Unlock the disc. (☞ page 50)
	• Recordable/Rewritable discs cannot be played back. • Tracks on the Recordable/Rewritable discs cannot be skipped.	• Insert a finalized disc. • Finalize the discs with the component which you used for recording.

Troubleshooting/error messages

	Symptoms	Remedies/Causes
Disc in general	Playback does not start.	• Insert the disc correctly again. • The format of files is not supported by the unit.
	Sound and pictures are sometimes interrupted or distorted.	• Stop playback while driving on rough roads. • Change the disc.
	No playback picture is shown and caution message about parking brake appears on the screen, even when the parking brake is engaged.	Parking brake lead is not connected properly. (☞ Installation/Connection Manual)
	No picture appears on the external monitor.	• Connect the video cord correctly. • Select the correct input on the external monitor.
	"Read error"	• A disc is inserted upside down. Replace the disc. • A disc has no playable files.
	"No Disc"	Disc is not inserted. Insert a disc or select another playback source.
	• "Eject Error" • "Loading Error"	• Eject the disc forcibly. (☞ page 4) • Check the disc.
	"Region code error"	Region code is not correct. (☞ page 51)
MP3/WMA/WAV	Disc cannot be played back.	• Change the disc. • Record the tracks using a compliant application on the appropriate discs. (☞ page 51) • Add appropriate extension codes to the file names.
	Noise is generated.	The track played back is not a playable file format. Skip to another file.
	Tracks are not played back as you have intended them to play.	Playback order may differ from the one played back using other players.
	Elapsed playing time is not correct.	This sometimes occurs during playback. This is caused by how the tracks are recorded.
	"Error"	The track is unplayable.
SD/USB	Noise is generated.	The track played back is not a playable file format. Skip to another file.
	Tracks cannot play back as you have intended them to play.	Playback order may differ from the one played back using other players.

	Symptoms	Remedies/Causes
SD/USB	While playing a track, sound is sometimes interrupted.	The tracks are not properly copied into the SD card/USB device. Copy tracks again, and try again.
	"No Files"	The SD card/USB device has no playable files. Change the SD card/USB device.
	"No SD Card"	No SD card is inserted. Insert an SD card or select another playback source.
	"No USB Device"	No USB device is connected. Connect a device or select another playback source.
	"Read error"	The file has not been formatted correctly.
	"Error"	The track is unplayable.
iPod/iPhone	The iPod/iPhone does not turn on or does not work.	• Check the connection. • Charge the battery. • Check whether <**Head**>, <**iPod**> or <**Ext**> is correctly selected for <**iPod Control Mode**>. (☞ page 59) • Reset the iPod/iPhone.
	Sound is distorted.	Deactivate the equalizer either on this unit or the iPod/iPhone.
	Playback pauses.	The headphones are disconnected during playback with <**iPod Control Mode**> set to <**iPod**> or <**Ext**> (☞ page 59). Restart playback.
	No operations are available when playing back a track containing artwork.	It takes a long time to loading an artwork. Operate the unit after the artwork is loaded. (☞ page 60)
	Video is not played back.	Check the connection of USB Audio and Video cable (KS-U29, not supplied).
	"Disconnected"	Check the connection.
Satellite radio	Satellite radio does not work at all.	Reconnect the Satellite radio after a few seconds.
	"CALL 1-888-539-SIRIUS TO SUBSCRIBE"	Start subscribing to SIRIUS Satellite radio. (☞ page 62)
	"Channel Not Authorized" (XM)	Selected channel is unauthorized. Select another channel or continue listening to the previous channel.
	• "Invalid Channel" (SIRIUS) • "Channel Not Available" (XM)	No broadcast on the selected channel. Select another channel or continue listening to the previous channel.

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Troubleshooting/error messages

Symptoms	Remedies/Causes
"Channel Off Air" (XM)	Selected channel is not broadcasting at this time.
"Loading" (XM)	The unit is loading the channel information and audio. Text information are temporarily unavailable.
• "Acquiring Signal" (SIRIUS) • "No Signal" (XM)	Signals cannot be received. Move to the place where the System receives the satellite radio signals.
"Check XM Tuner" (XM)	The XM Mini tuner is not connected. Connect the tuner.
• "No Antenna" (SIRIUS) • "Check Antenna" (XM)	Connect the antenna firmly.
"Reset 08"	Reconnect this unit and the Satellite radio correctly, and detach the monitor panel then attach it.

Satellite radio

Symptoms	Remedies/Causes
"No Signal"	• Turn on the external component if it is not on. • Connect the external component correctly. • Check whether <**AV Input**> setting is correct for "AV-IN". (☞ page 71)

AV-IN/Front Aux

Symptoms	Remedies/Causes
Bluetooth device does not detect the unit.	This unit can be connected with one Bluetooth device at a time. While connected to a device, this unit cannot be detected from another device. Disconnect currently connected device and search again.
The unit does not detect the Bluetooth device.	Check the Bluetooth setting of the device.
Echo or noise occurs.	Adjust the microphone unit position.
Phone sound quality is poor.	• Reduce the distance between the unit and the Bluetooth mobile phone. • Move the car to place where you can get a better signal reception.
The sound is interrupted or skipped while using a Bluetooth audio player.	• Reduce the distance between the unit and the Bluetooth audio player. • Disconnect the device connected for Bluetooth phone. • Turn off, then turn on the unit. • (When the sound is not yet restored) connect the player again.
The connected audio player cannot be controlled.	Check whether the connected audio player supports AVRCP (Audio Video Remote Control Profile).
The unit does not response when you tried to copy the phone book to the unit.	You may have tried to copy the same entries (as stored) to the unit.

Bluetooth

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	Symptoms	Remedies/Causes
Rear view camera	The rear view screen is not displayed when the gear is shifted to the reverse (R) position.	• Check <**Camera Input**> setting. (☞ page 83) • Check the connection.
	"No Signal"	Check the connection.

Specifications

Design and specifications are subject to change without notice.

	System & Service	L1, C/A code Global Positioning System Standard Positioning Service	
NAVIGATION SYSTEM	Reception System	12-channel multi-channel reception system	
	Reception Frequency		1 575.42 MHz
	Sensitivity		−130 dBm
	Update Rate		1/second, continuous
	GPS Antenna	Polarization	Right Handed Circular Polarization
		Dimensions (approx.) (W × H × D)	30.4 mm × 11.7 mm × 35.5 mm (1-1/4 inches × 1/2 inch × 1-7/16 inches)
		Cable (approx.)	5.0 m (16.4 feet)

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Specifications

AMPLIFIER	Power Output	**20 W RMS × 4 Channels at 4 Ω and ≤ 1% THD+N**	(Amplifier Power Standard CEA CEA-2006 Compliant)
	Signal-to-Noise Ratio	80 dBA (reference: 1 W into 4 Ω)	
	Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
	Equalizer Control Range	Frequencies	60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.5 kHz, 6.3 kHz, 15 kHz
		Level	±10 dB
	Audio Output Level LINE OUT (F OUT/R OUT), SUBWOOFER	Line-Out Level/Impedance	2.5 V/20 kΩ load (full scale)
		Output Impedance	1 kΩ
	Color System		NTSC/PAL
	Video Output (composite)		1 Vp-p/75 Ω
	Other Terminals	Input	USB (⟵⟶), Front AUX, LINE IN, VIDEO IN, CAMERA IN, Antenna input, MIC IN
		Output	VIDEO OUT
		Others	OE REMOTE, Satellite unit connector
FM/AM TUNER	Frequency Range	FM (with channel interval set to 100 kHz or 200 kHz)	87.5 MHz to 107.9 MHz
		FM (with channel interval set to 50 kHz)	87.5 MHz to 108.0 MHz
		AM (with channel interval set to 10 kHz)	530 kHz to 1 710 kHz
		AM (with channel interval set to 9 kHz)	531 kHz to 1 602 kHz
	FM Tuner	Usable Sensitivity	11.3 dBf (1.0 μV/75 Ω)
		50 dB Quieting Sensitivity	16.3 dBf (1.8 μV/75 Ω)
		Alternate Channel Selectivity (400 kHz)	65 dB
		Frequency Response	40 Hz to 15 000 Hz
		Stereo Separation	35 dB
	AM Tuner	Sensitivity/Selectivity	20 μV/40 dB
DVD/CD	Signal Detection System	Non-contact optical pickup (semiconductor laser)	
	Frequency Response	DVD, fs=48 kHz/96 kHz	16 Hz to 22 000 Hz
		CD	16 Hz to 20 000 Hz
	Dynamic Range		93 dB
	Signal-to-Noise Ratio		95 dB
	Wow and Flutter		Less than measurable limit

SD	Compatible File System	FAT 32/16/12	
	Capacity	8 Mbytes to 2 Gbytes	
	Data Transfer Rate	Maximum 10 Mbps	
USB	USB Standards	USB 2.0 High Speed	
	Data Transfer Rate	High Speed: Maximum 480 Mbps Full Speed: Maximum 12 Mbps Low Speed: Maximum 1.5 Mbps	
	Compatible Device	Mass storage class	
	Compatible File System	FAT 32/16/12	
	Max. Current	DC 5 V ⎓ 500 mA	
BLUETOOTH	Version	Bluetooth 1.2 certified	
	Output Power	+4 dBm Max. (Power class 2)	
	Service Area	Within 10 m (10.9 yd)	
	Profile	HFP (Hands-Free Profile) 1.5 OPP (Object Push Profile) 1.1 PBAP (Phonebook Access Profile) 1.0 A2DP (Advanced Audio Distribution Profile) 1.2 AVRCP (Audio/Video Remote Control Profile) 1.3	
MONITOR	Screen Size	6.1 inch wide liquid crystal display	
	Number of Pixel	336 960 pixels: 480 × 3 (horizontal) × 234 (vertical)	
	Drive Method	TFT (Thin Film Transistor) active matrix format	
	Color System	NTSC/PAL	
	Aspect Ratio	16:9 (wide)	
GENERAL	Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
	Grounding System		Negative ground
	Allowable Storage Temperature		−10°C to +60°C (14°F to 140°F)
	Allowable Operating Temperature		0°C to +40°C (32°F to 104°F)
	Dimensions (W × H × D) • With trim plate and sleeve attached	Installation Size (approx.)	182 mm × 111 mm × 161 mm (7-3/16″ × 4-3/8″ × 6-3/8″)
		Panel Size (approx.)	188 mm × 117 mm × 10 mm (7-7/16″ × 4-5/8″ × 7/16″)
	Mass (approx.)		2.9 kg (6.4 lbs) (including trims/sleeve/brackets)

If a kit is necessary for your car, consult your telephone directory for the nearest car audio speciality shop.

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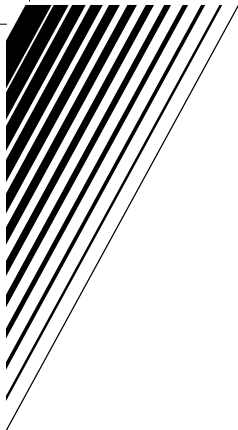
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