JVC

GPS NAVIGATION SYSTEM
SISTEMA DE NAVEGACIÓN GPS
SYSTÈME DE NAVIGATION GPS

KW-NT50HDT / KW-NT30HD

Amplifier Power Standard CEA CEA-2006 Compliant

Powered by
Windows® Embedded

NAVTEQ ON BOARD

Detachable

DOLBY DIGITAL

DVD VIDEO

COMPACT DIGITAL AUDIO TEXT

Data by
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HD Radio®
This HD Radio receiver enables:

Bluetooth®

SiRF star III Powered

Google maps

Total Traffic+ HD NETWORK®
NewsService *Journaline*®
Fraunhofer IIS

PSD

HD2/HD3

iTunes® Tagging

SAT RADIO READY

SDHC

Only for KW-NT50HDT
Sólo para KW-NT50HDT
Uniquement pour le KW-NT50HDT
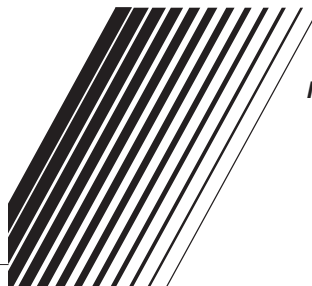
Traffic

iheartradio

Made for
iPod iPhone

HD Radio **Traffic** is available **only for KW-NT50HDT**.
HD Radio **Traffic** se encuentra disponible **sólo con el KW-NT50HDT**.
HD Radio **Traffic** est disponible **uniquement pour le KW-NT50HDT**.

For installation and connections, refer to the separate manual.
Para la instalación y las conexiones, refiérase al manual separado.
Pour l'installation et les raccordements, se référer au manuel séparé.

INSTRUCTIONS
MANUAL DE INSTRUCCIONES
MANUEL D'INSTRUCTIONS

For customer Use:
Enter below the Model No. and Serial No. which are located on the top or bottom of the cabinet. Retain this information for future reference.

Model No.

Serial No.

LVT2219-001A
[J/C]

Thank you for purchasing a JVC product.
Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** (For U.S.A.) Visible and/or invisible class II laser radiation when open. Do not stare into beam.
   (For Canada) Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION	ATTENTION	AVISO	VARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL OPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを開くと可視及び/または不可視のクラス1M レーザー放射が出ます。光学装置で直接見ないでください。(JPN)	VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)

INFORMATION (For U.S.A.)

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 generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. 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.

Caution

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

(For USA)
CAUTION: This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter. End user cannot modify this transmitter device. Any unauthorized modification made on the device could avoid the user's authority to operate this device.

(For Canada) "The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population, consult Safety Code 6, obtainable from Health Canada's website www.hc-sc.gc.ca/rpb"

The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.
This device complies with RSS 210 of Industry Canada "IC".
"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."

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 étre prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

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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 malfunction.
- 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.
  Touch 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.

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.

[European Union only]

Only for KW-NT30HD / Uniquement applicable au modèle KW-NT30HD
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 20 cm or more away from person' s body (excluding extremities: hands, wrists, feet and ankles).

Cet équipement est conforme aux limites FCC/IC d'exposition aux rayonnements définies pour un environnement non réglementé, aux lignes directrices de la FCC en matière d'exposition aux radiofréquences spécifiées dans le supplément C du bulletin OET65 et aux régulations RSS-102 de l'IC sur l'exposition aux radiofréquences (RF). Cet équipement étant associé à de très faibles niveaux d'énergie radiofréquence, il est considéré conforme sans évaluation de l'exposition maximale admise (EMA). Il est cependant conseillé de l'installer et de l'utiliser en maintenant la source de rayonnement radioélectrique à 20 cm minimum du corps (à l'exclusion des extrémités du corps, à savoir les mains, les poignets, les pieds et les chevilles).

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.

Selon les régulations d'Industrie Canada, cet émetteur radioélectrique peut uniquement fonctionner avec une antenne dont le type et le gain maximum (ou inférieur) sont approuvés par Industrie Canada. Pour réduire les perturbations radioélectriques potentielles pour les autres utilisateurs, le type et le gain de l'antenne doivent être choisis de façon que la puissance isotrope rayonnée équivalente (P.I.R.E.) ne soit pas supérieure à la puissance nécessaire pour la réussite des communications.

This device complies with RSS-310 of Industry Canada. Operation is subject to the condition that this device does not cause harmful interference.

Only for KW-NT50HDT
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to CET65. 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 lease 20 cm or more away from person' s body (excluding extremities: hands, wrists, feet ankles).

For safety...
• Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
• 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.

When replacing/rotating the tires:

It is required to clear all the accumulated calibration data which is important for accurate navigation. To clear the data, perform <**Reset Calibration Data**>. (☞ page 39)

How to forcibly eject a disc

[Hold]

Eject forcibly?

Yes   No
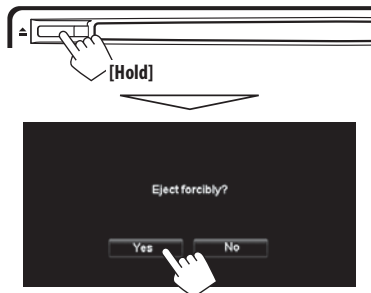
• *Be careful not to drop the disc when it ejects.*
• *If this does not work, detach the monitor panel then attach it (☞ right).*

Detaching/attaching the monitor panel

Detaching

1

2

3

Soft case (supplied)
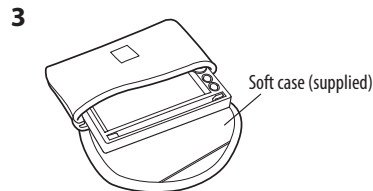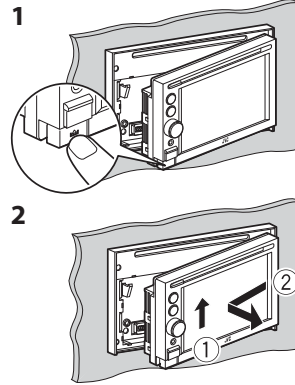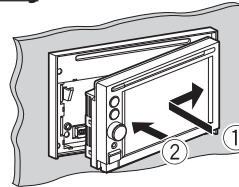
Attaching

Caution:
• Hold the monitor panel securely so as not to drop it accidentally.
• Fit the monitor panel onto the attaching plate until it is firmly locked.

How to read this manual:
• Illustrations of KW-NT50HDT are mainly used for explanation.
• < > indicates the variable screens/menus/operations/settings that appear on the touch panel.
• [ ] indicates the buttons on the touch panel.

Contents

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Contents

Introduction

Parts identification

Screen (touch panel)   Monitor panel

1 **Loading slot**

2 **⏏ (Eject) button**
Ejects the disc.

3 **AV MAP/DISP OFF button**
- Switches the screen between the map screen and AV screen. (☞ page 12)
- Turns off/on the screen. [**Hold**] (☞ page 10)

4 **SRC/⏻ button**
- Selects the source. (☞ page 44)
- Turns off/on the AV function. [**Hold**] (☞ page 44)

5 **Volume adjustment knob**
Adjusts the audio volume.
- About the adjustable volume range, ☞ page 73 (<**Amplifier Gain**>).
- To adjust the guidance volume, ☞ page 29.

Decrease   Increase
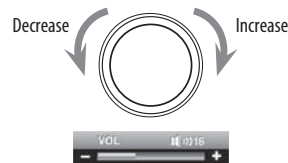
6 **AUX input terminal**

7 **USB ⟋ input terminal**

8 **⏏ (Detach) button**
Detaches the monitor panel. (☞ page 4)

You can change the color of the buttons on the monitor panel. (☞ page 71)

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Installation settings

When you turn on the unit for the first time, the initial setup screen appears.

1 Turn on the ignition switch.
The power is turned on, and the startup screen is displayed for about 5 seconds.

2 Select the language you want for the display and the voice guidance.

- You can also select the system language through the AV menu (<**Settings**> - <**System**> - <**Language**>, ☞ page 75)

3 Display installation settings screen.
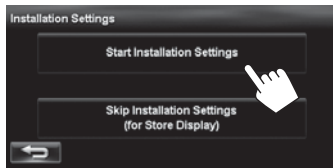
- If you select [**Skip Installation Settings (for Store Display)**], the System starts in the store display mode.
  You need to make the installation settings next time you turn on the power.
  – When you turn on the power, <**Select Language**> appears. After selecting the language, the confirmation message appears. Press [**Yes**] so that the System starts initialization. When initialization is complete, <**Select Language**> (☞ Step **2** above) is displayed.

4 Adjust the settings.
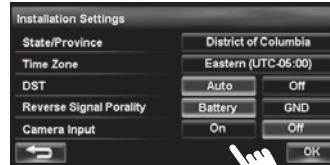
State/Province	Select the State or Province where you are now.
Time Zone*	Select your residential area for automatic clock adjustment by GPS signal.
DST*	Select <**Auto**> if your residential area is subject to Daylight Saving Time.
Reverse Signal Polarity*	Select the reverse signal polarity (<**Battery**> or <**GND**>) according to the connection of your car.
Camera Input*	Select <**On**> when connecting the rear view camera to the CAMERA IN jack.

* *You can also change these settings through the AV menu (<**Settings**>, ☞ page 75).*

5

9
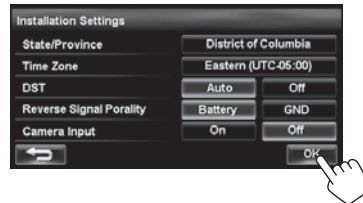
Basic operations

Turning on the power

Turn on the ignition switch.
Startup screen appears for about 5 seconds.
• You can change the startup screen. (☞ page 75)

• When displaying the map screen for the first time after turning on the power, the screen below appears. Press [**OK**] to use the map screen.

Caution

DRIVER IS RESPONSIBLE FOR DRIVING DECISIONS AND KEEPING EYES ON THE ROAD!

This unit gives guidance only. Driver must observe and obey all traffic rules and road signs regardless of unit instructions. Route requests and adjustment should be entered only while vehicle is stopped. Please see owner's manual for complete safety instructions.

OK

• The power is turned off when the ignition switch is turned off.

Messages about the status of GPS signal reception

Current status of the GPS signal reception

"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.

Turning off/on the screen

DISP OFF
AV
MAP
[Hold]

The screen is turned on.

• You can erase the clock display while the screen is turned off. (<**Clock on Video/Screen-Off**>, ☞ page 74)

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Operations on the touch panel

■ When items on the menu are not available

Non-available items will be shaded

■ To change the page of menu/list

Menu

Current page/total menu pages

Changes the page

List

Ex.: Folder/track list

Changes the page

Skips the list up or down

■ To select folder/track on the list

Select a folder (①), then a track (②).

Current folder   Current track

■ Scrolling the track/song information

When all the text is not shown at once...

■ Characters you can use

1	2	3	4	5	6	7	8	9	0
Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L
Z	X	C	V	B	N	M

À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É
Ê	Ë	Ì	Í	Î	Ï	Đ	Ñ	Ò	Ó
Ô	Õ	Ö	Ø	Ù	Ú	Û	Ü	Ý	Þ
ß

!	˝	#	$	%	&	'	(	)	∗
+	,	-	.	/	:	;	<	=	>
?	@	[	\	]	^	_	{	|	}
~

11

Switching screens
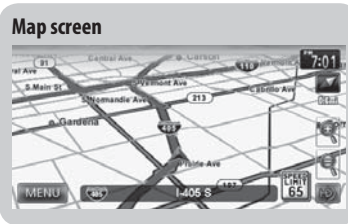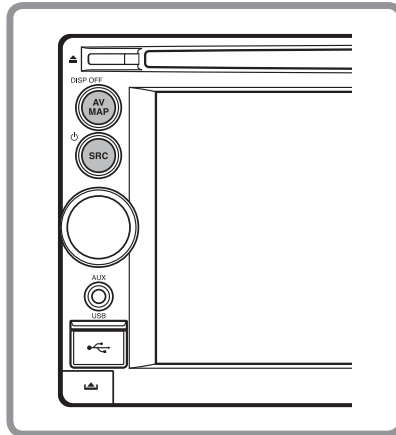
Map screen

The AV control bar is displayed on the map screen. You can perform AV source operations using the AV control bar.

• Pressing (SRC) also displays the AV control bar. In this case, the AV control bar disappears automatically after 5 seconds.

Erases the AV control bar

• You can change the source by pressing (SRC) while the AV control bar is displayed.

While driving at a speed greater than 6 mi (10 km/h), some screens on the navigation menus are not available.

• Press [ ] to return to the previous screen.
• **On navigation screens only**: press [ ] to display the current position on the map.
• **On <Settings> on <AV Menu> only**: press [ ] to display the current source screen.

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ENGLISH

DISP OFF

AV screen

Radio FM1 97.9 MHz HD1 Channel Name 7:01

DISP | PTY Name | Track Name | Artist Name | Album Name

Mode | HD | Tag

MENU | I◄◄ | ►►I | Band

MENU

AV Menu

MENU

Navi Menu
Shows the destination menu and information about the navigation system.

Only for KW-NT50HDT

Navi Menu | AV Menu | PHONE

Destination | Vehicle Info | Traffic List | Travel Info

POI Icon | Route | Detour | Cancel Route

10 | Simulation | Options

AV Menu
Changes or turns off the AV source.

Navi Menu | AV Menu | PHONE

HD Radio | DISC | SD | USB

BT-Audio | Front AUX | AV-IN | SAT

AV Off | Settings

Navi Menu

Settings

Options

Options
Changes the navigation settings. (☞ page 40)

Options | Route | Sound | Display | Others

Priority | Fastest | Shortest
Freeway | Use | Avoid
Toll Road | Use | Avoid
Ferry | Use | Avoid
Bypass Traffic | Auto | Manual | Off

Only for KW-NT50HDT

Settings
Changes the detailed settings. (☞ page 72)

Settings | Audio | Display | Input | System

Fader/Balance | 0 / 0
Equalizer | Flat
Subwoofer/HPF | Enter
Volume Adjust | Fix
Adaptive Volume | ◄ | Mid | ►

1/2

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Navigation System

Safety instructions/information for the Navigation System

SAFETY INSTRUCTIONS

Use of the Navigation System is only permitted if the traffic conditions are suitable and you are absolutely sure that no risk, obstruction or inconvenience will be incurred to you, your passengers or other road users. The requirements of the Road Traffic Regulations must always be followed. **The destination must not be entered while driving the car.**

The Navigation System serves solely as an aid to navigation. It never releases the drivers from their duties to drive carefully and to make own judgement in road traffic. Inaccurate or incorrect instructions may happen to be given due to changing traffic conditions. The actual road signs and traffic regulations must therefore always be observed. In particular, the Navigation System cannot be used as an aid to orientation when visibility is poor.

This Navigation System must only be used for its intended purpose. The volume of the car radio/Navigation System must be adjusted so that external noise is still audible.

Navigation guidance is performed, based on the database, therefore, it may not be applicable to the current situation because of changes in traffic conditions (e.g. changes in tollroads, principal roads, one-way traffic, or other traffic regulations). In this case, observe the current traffic signs or regulations.

• Traffic signs should be observed carefully while driving using the Navigation System. Navigation System is only an aid. Driver must always decide whether or not to heed the information provided. **JVC does not accept liability for erroneous data provided by the Navigation System.**

• Traffic guidance is restricted to passenger vehicles only. Special driving recommendations and regulations for other vehicles (e.g. commercial vehicles) are not included.

• **Do not operate the unit while driving.**

Terms of licence

You are granted a non-exclusive licence to use the database for your personal purposes. The present licence does not authorise the granting of sublicenses. Use of the data is only permitted in this specific JVC system. It is forbidden to extract or make further use of significant parts of the database content, or to duplicate, modify, adapt, translate, analyse, decompile or reverse-engineer any part thereof.

WARNING:

Map content, including names and appearance of streets and bridges, POI information, etc. may be inaccurate. If the traffic rules displayed by the unit are different from the actual traffic rules, obey the actual traffic rules. Road traffic regulations always take priority when a vehicle is being driven in traffic. Navigation System is only an aid. Errors may occur in individual data items/entries. At all times, the driver must decide whether or not to heed the information provided.

JVC does not accept liability for erroneous data provided by the Navigation System.

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Information/icons on the map ▬

• The information on the map (such as street name, the POI information, and speed limit) may not be always displayed (for example, if the System does not have the information of the position).

• Home ( ) and favorite point ( ) icons are displayed after home/favorite points are registered.

• POI icons are displayed on the map depending on the <**POI Icon**> setting (☞ page 15) and the map scale is between 80 ft (25 m) and 800 ft (250 m).
  – The following icons are displayed when the map scale is between 80 ft (25 m) and 0.6 mi (1 km):
    – Airport icon in the travel category
    – Golf course icon in the leisure category
    – Gas station icons

• POI icons may not be displayed correctly when the System displays the wide area of map. In this case, zoom in the map to display the detailed map.

Basic operations

About the current position screen

Favorite points (☞ pages 17 and 34)   Your position   Current time

POI (Point Of Interest)
(☞ "List of POI icons",
page 43)

Direction

Scale

Home (☞ pages 17
and 34)

Zoom buttons
(☞ below)

Traffic information
(only for KW-NT50HDT)
(☞ page 35)

Shows the AV control
bar (☞ page 12)

Shows <**Navi Menu**> (☞ page 13)   Current street   Speed limit on the current street
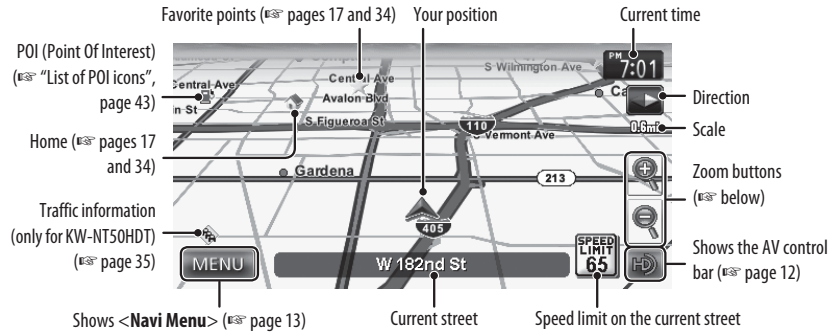
To display/hide POI icons on the map

1 On <**Navi Menu**>:

2 **Select categories (①) and sub-categories**
(②) of POI which you want to be displayed on
the map.

[**Select All**]: Selects all sub-categories
[**Deselect All**]: Deselects all sub-categories.

• The selected items are marked with "✔."

3 **Activate or deactivate the POI icons of the**
selected categories.

Displays the selected POI icons   Deactivates
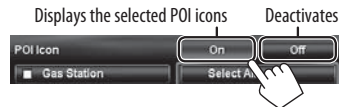
To change the map scale

1 **Display the zoom buttons and scale buttons.**

• When the AV control bar is displayed, the zoom
buttons are not shown. Erase the AV control
bar by pressing the source icon on the bar.
(☞ page 12)

2

Zoom in

You can also select a scale directly by pressing
one of the scale buttons.

Zoom out

• If the scale is set to 60 mi (100 km) or higher, the
map view becomes North Up regardless of the
current map view setting.

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Basic operations

To scroll the map

The position you touched is centered on the map.

Direction and distance from your current position

- Touch and hold the map to keep scrolling the map.
- The scrolling speed varies depending on the position you are touching and holding:
  – Inner area: slow
  – Outer area: fast

To display the current position

To display your current position

To change the map view

3D Map
The three dimensional map is displayed in "heading up."
- The icon shows the direction of north.

2D North Up
The map view is oriented with north "upwards," as in usual paper maps.
- The icon shows the direction of the car.

2D Heading Up
The map rotates so that you are always displayed heading "upwards."
- The icon shows the direction of north.

- You can also change the map view through the navigation menu (<**Options**> - <**Display**> - <**View Mode**>, ☞ page 41).

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Registering your home/favorite points

You can register one point as your home or 100 favorite points.

1 Scroll the map to select the position you want to select as a destination.
  • To search the destination using <**Destination Menu**>, ☞ pages 19 to 27.

2

3

4
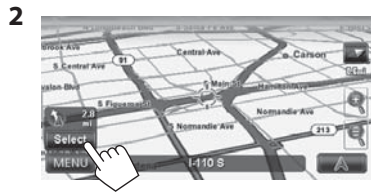
[**Save as Home**]:
The selected position is saved as home and the home is marked with 🏠 icon on the map.
  • **When the home is already registered,** you are asked if you want to replace the old home. Press [**Yes**] to replace, or press [**No**] to cancel.

[**Save as Favorite**]:
The selected position is saved as a favorite point and the favorite point is marked with ⭐ icon on the map.

  • To edit the registration, ☞ page 34.

Searching for a place

Setting a destination by scrolling the map ▮▮▮▮▮

1 **Scroll the map to select the position you want to select as a destination.** (☞ page 16)

2

- If there are several POIs on the selected position, select one from the list.
  – The list appears only when <**POI Icon**> is set to <**On**>. (☞ page 15)

POIs

3 **The search result is displayed.**

Guidance starts.

- To cancel guidance, ☞ page 29.
- To set the selected position as via point, ☞ page 28.
- To change route options, ☞ page 29.
- For details about the search result screen, ☞ right.

About the search result screen ▮▮

Zoom buttons

- You can change the map scale by pressing the zoom buttons.
- You can display the map of selected area on whole screen by touching the map part once. (If you press more than once, the map scrolls.) To display the information screen again, press [**Select**].

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Setting a destination using the <Destination Menu>

1

2

3 Select a method to search for a destination.

Home *	Goes to your home.
	• To register your home, ☞ page 17.
Previous *	Searches from the history of previous destinations and via points.
	• You can select a place from the last 50 destinations and via points.
	• To delete the history, ☞ page 39.
Favorites *	Searches from your favorite points.
	• To register your favorite points, ☞ page 17.
	• To edit the information about the favorite points, ☞ page 34.
Assistant POIs	Searches from the list of POIs (Point Of Interest) saved on the SD card using Street Director Assistant. (☞ page 25)
Address	Searches by an address. (☞ page 21)
Phone	Searches by a telephone number. (☞ page 22)
POI Name	Searches from the database of POI. (☞ page 23)
Vicinity	Searches for POIs (Point Of Interest) around your current position, the position selected on the map, the destination, or the route you are taking. (☞ page 24)
Coordinates	Searches by coordinates of the destination. (☞ page 25)
Quick Search	Searches for POIs of a registered category — [**Quick Search 1**]/[**Quick Search 2**]/[**Gas Station**] (Initial). (☞ page 26)

* *Selectable only when at least one place is registered.*
• When searching from the Destination Menu, results are always displayed using the 2D North up map view regardless of the current map view setting. (☞ page 16)

ENGLISH

About search screens and input screens

Read through the following instructions for using search screens and input screens before using <**Destination Menu**>.

To enter names, addresses, or numbers

Number of matches
- When there are more than 100 matches, "100+" is displayed and only first 100 matches are displayed.

Hold: Adds "+1" or "+"

Selects 1st candidate

Displays the list of matches (☞ "List of matches" on the right)

Enters a space

Press: Deletes last character
Hold: Deletes all characters

Displays other keyboards
- For available characters, ☞ page 11.

- Buttons vary depending on the input item.
- Non-available items will be shaded on the menu screen.
- For some input screens, available characters are automatically narrowed down as the System searches its database for matches.
- Lower cases are not available.

State/Province selecting screen

You can change the State/Province if the selecting button appears on the screen.

List of matches

When you press [**List**] on the input screen, the list of matches appears. Select desired item from the list.
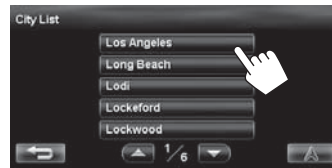
- When the number of matches is 5 or less, the list of matches automatically appears.

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ENGLISH

By address <Address>

1

Destination ➡ Address
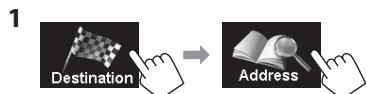
2 **Enter the city name, then select from the list** (☞ page 20)**.**

Changes State or Province

< Input City >   California
Cypress   ZIP Code
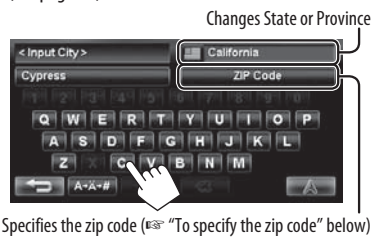
Specifies the zip code (☞ "To specify the zip code" below)

C_
Chula Vista   100+   List

To specify the zip code

Changes country

< Input ZIP Code >   United States
                      City

Returns to the city input screen

9_
9xxxx (Los Angeles)   100+   List

---

3 **Enter the street name, then select from the list** (☞ page 20)**.**

Selects the center of the city (Then, go to step **5**.)

< Input Street >   Center of City

CO_
Cobblestone Ln   12   List

4 **Enter the house number, then select from the list** (☞ page 20)**.**
  • If no data of house number for the selected street is available in the database, select [**Middle of the Road**] or [**Intersection**].

< Input House# >
Middle of the Road   Intersection

55_
5500   100   List

21

To select the center of the street or intersection on the street

Specifies the crossing street to select intersection on the street
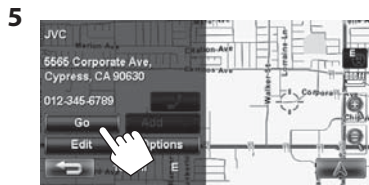
< Input House# >

Middle of the Road   Intersection

Selects the center of the street

5

Guidance starts.

- To cancel guidance, ☞ page 29.
- To set the selected position as via point, ☞ page 28.
- To change route options, ☞ page 29.
- For details about the search result screen, ☞ page 18.

By telephone number <Phone>

1

 ➡

Destination   Phone

2 **Enter the telephone number, then select from the list** (☞ page 20)**.**

Changes country

< Input Phone# >   United States

The search result is displayed.

Guidance starts.

- To cancel guidance, ☞ page 29.
- To set the selected position as via point, ☞ page 28.
- To change route options, ☞ page 29.
- For details about the search result screen, ☞ page 18.

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From the list of POI <POI Name>

1

2 **Enter the POI name, then select from the list** (☞ page 20)**.**

Changes State or Province

Specifies the category and sub-category (☞ "To specify the category and sub-category" below)

To specify the category and sub-category

Cancels the selected category
Selects all sub-categories

Sub-categories

Lists from the nearest
Lists in alphabetical order

The System displays up to 100 POIs.
When searching from a large number of items, it may take some time for the search results to be displayed.

The search result is displayed.
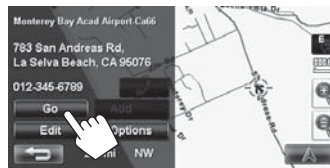
Guidance starts.

- To cancel guidance, ☞ page 29.
- To set the selected position as via point, ☞ page 28.
- To change route options, ☞ page 29.
- For details about the search result screen, ☞ page 18.

ENGLISH

POI near a place/route <Vicinity>

The System has a huge database of POIs (Point Of Interest), such as restaurants, gas stations, hospitals, etc.
You can search for a POI around the place where you are now. While guided, you can also search for a POI near the destination or along the route.

1

2 Select the area to search.

Local	Within 12.5 mi (20 km) of your current position or the position selected on the map. If no POI is found in this area, the System expands the area to search.
Dest.	Within 12.5 mi (20 km) of the destination. If no POI is found in this area, the System expands the area to search.
On Route	• On freeway: 180 mi (300 km) along the route you are taking. • Others: 15 mi (25 km) along the route you are taking.

3 Select a category (①), then a sub-category (②) for the POI.

Selects all sub-categories

Sub-categories

"Searching..."
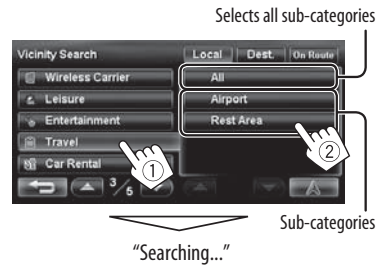
4 Select a POI from the list.

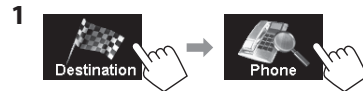• The System displays up to 50 POIs.

The search result is displayed.

Guidance starts.

• To cancel guidance, ☞ page 29.
• To set the selected position as via point, ☞ page 28.
• To change route options, ☞ page 29.
• For details about the search result screen, ☞ page 18.

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By coordinates <Coordinates>

1

2 **Enter the latitude and the longitude.**

The search result is displayed.

Guidance starts.

- To cancel guidance, ☞ page 29.
- To set the selected position as via point, ☞ page 28.
- To change route options, ☞ page 29.
- For details about the search result screen,
  ☞ page 18.

From the list of POIs imported by yourself <Assistant POIs>

Importing POI information on Google Maps

You can import POI information on Google Maps through an SD card.
For details about Street Director Assistant, visit <http://www.jvc.co.jp/english/car/> (English website only).
- When the SD card is ejected, the imported POI cannot be used.

1

2

Lists in alphabetical order   Lists from the nearest

The search result is displayed.

Guidance starts.

- To cancel guidance, ☞ page 29.
- To set the selected position as via point, ☞ page 28.
- To change route options, ☞ page 29.
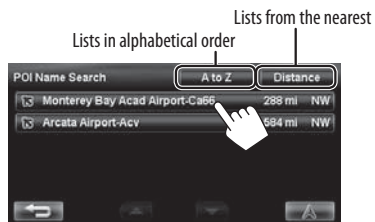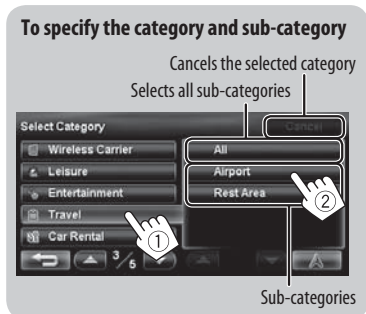- For details about the search result screen,
  ☞ page 18.

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Quick Search

You have three [**Quick Search**] buttons in <**Destination Menu**>. You can assign a POI category to each button. When you press one of the buttons, the System searches for a POI of the registered category.

• [**Gas Station**] is registered to one of the three buttons when shipped from the factory. You can also change the registered category of this button.

To register a category to the buttons

1   Select one of the [Quick Search] buttons to register the category.

2   Select a category (①), then a sub-category (②) of the POI.

Selects all sub-categories
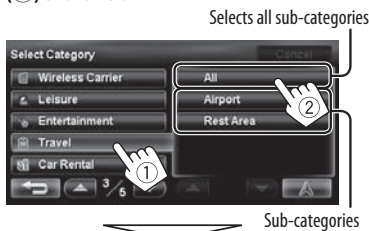
Sub-categories

The search for the selected category starts to register it to the [**Quick Search**] button.

3

Registered category
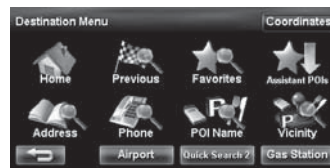
4   Repeat steps 1 to 3 until three categories are registered.
The selected category (or sub-category) name is assigned to the button.

• The selected category is registered to the [**Quick Search**] button even if you cancel the searching before the search is completed.

26

To change a category assigned to the [Quick Search] button

1 Select one of the [Quick Search] buttons whose category you want to change.
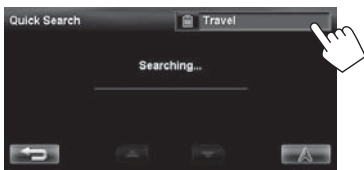
or
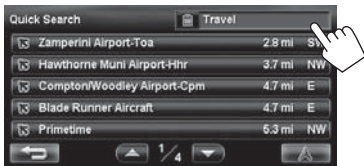
2 Perform steps 2 and 3 of "To register a category to the buttons" (☞ page 26).

To use Quick Search

1
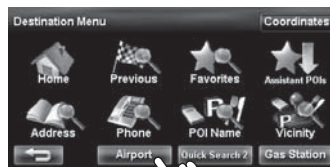
"Searching..."

2 Select a POI from the list.
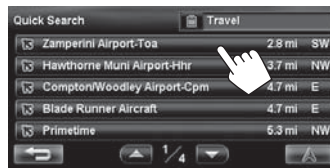
• The System displays up to 50 search results.

The search result is displayed.

Guidance starts.

• To cancel guidance, ☞ page 29.
• To set the selected position as via point, ☞ page 28.
• To change route options, ☞ page 29.
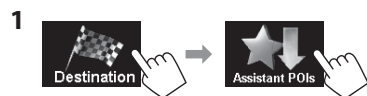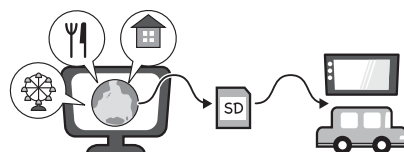• For details about the search result screen, ☞ page 18.

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How you are guided

Starting guidance to the destination or via point

1 **Select a destination or via point.** (☞ pages 18 to 27)

2 **To set as destination**

To change the destination

To set as via point
You can add the via points only after selecting your destination.

Destination
Via point

• You can select up to four via points.
• For editing your route,

The System starts calculating the route to the selected destination, and guidance starts.

Cancels the calculation

To cancel guidance,

EN_KW-NT30_50[J].indb   28   1/31/2011   3:24:14 PM

Changing route options

1 On the search result screen:
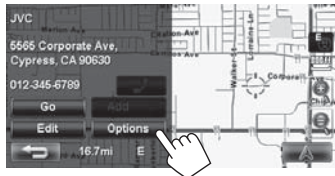
2 **Set options.**

Priority	Select the priority for route calculation ([**Fastest**]: fastest route/[**Shortest**]: shortest route).
Freeway	Select whether to use ([**Use**]) or avoid ([**Avoid**]) these types of options to go to the destination.
Toll Road	
Ferry	
Bypass Traffic (Only for KW-NT50HDT)	Select the route calculation method with traffic information. (☞ page 35)

- You can also change these settings through the navigation menu (<**Options**> - <**Route**>, ☞ page 40).
- The settings are effective next time the System calculates a route.

3

Canceling guidance

1

2
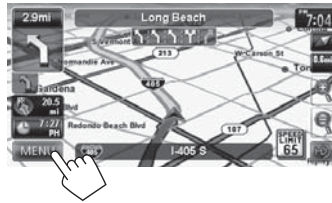
A confirmation message appears.

Adjusting the volume of the voice guidance

- About the adjustable volume range, ☞ page 73 (<**Amplifier Gain**>).
- You can also adjust the volume through the navigation menu (<**Guidance Volume**>, ☞ page 40).

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ENGLISH

About route guidance screen

Distance to the next turn
• Press to listen to the last voice guidance again.

Lanes to take
(Appears when coming within 3 mi (5 km) of it.)

Next street

Next turn to make

The second turn to make
(if any)

Route to take

Shows AV control bar

Direction and distance to the destination
(⌖) or a via point (⌕)
• Press to switch the information between the final destination and the nearest via point.

Current street

Speed limit on the current street

⊙ : Estimated time of arrival (ETA)
⊡ : Remaining time to the selected destination or a via point
• Press to switch the information between estimated time of arrival (ETA) and remaining time.

Guidance at turns

When you approach a turn, the System guides you with voice guidance and indications on the screen.
• Guidance voice comes out only through the front speakers (and the F OUT jacks on the rear).

To remove the magnified map, touch the map part on the right side of the screen.
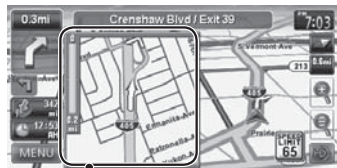
Magnified map
• You can select whether or not to display the magnified map through the navigation menu (<**Options**> - <**Display**> - <**Magnified View**>, ☞ page 41).

What if I miss a turn?
Don't worry. The System calculates a new route quickly.

• When you reach the area approximately within 120 ft (40 m) around the destination/via point, the Navigation System considers you to have reached your destination/via point.

30

Getting information on your route and places

To check the entire route

Returns to previous screen

To check the information on the destination and via points

1

2 Select a desired point to check its detailed information.
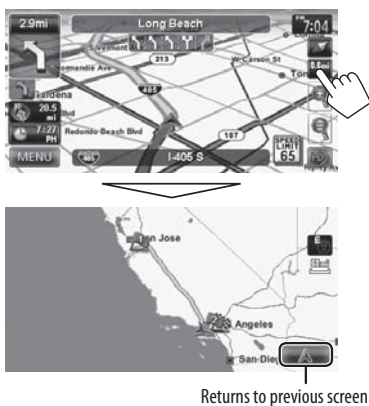
To confirm how your trip will go

Drive simulation starts.

Shows the simulation just before the next turn

Changes the speed of the drive simulation (normal/faster)
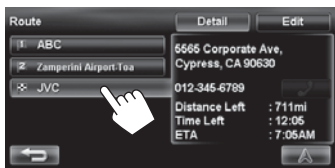
To cancel the simulation and resume guidance

A confirmation message appears.

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Arranging your route

Changing the sequence of the destination/via points

- Highways are always used to calculate the route if distance to a destination exceeds a certain distance.
- If the destination cannot be reached without using highways, ferries, or toll roads, they are used to calculate the route without respect to the <**Route**> settings. (☞ page 40)

1

2
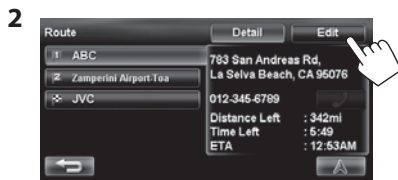
3 **Change the sequence of the destination/via points.**
To optimize the sequence
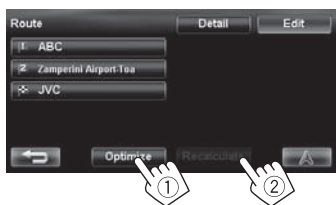
To rearrange the sequence manually
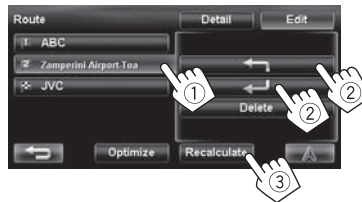
[⬅]: Moves up the order of selected point.
[⬇]: Moves down the order of selected point.

- Repeat ① and ② to move other via points before pressing [**Recalculate**].

The System starts calculating the new route, and guidance starts.

To delete a via point

Press [Delete] after selecting the item you want to delete, then press [Recalculate].

32
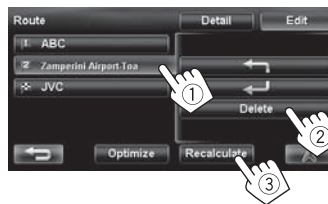
Avoiding a congestion ahead

If you realize a congestion exists ahead...

1

2 Select the distance to avoid.
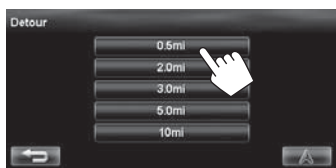
A detour is calculated, and guidance starts.

* A detour may not be calculated depending on the route.

Adjusting the vehicle position

If you find your current position is displayed on a wrong place on the map, use this setting to correct your position.

1

2

3
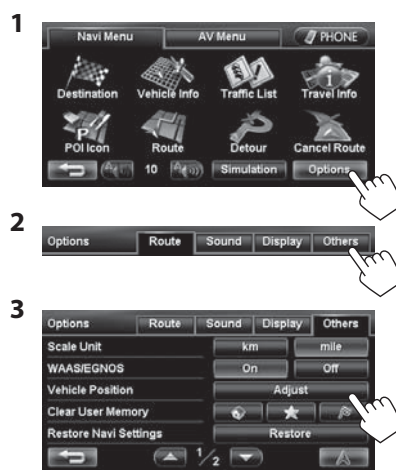
4 Move the cursor to the position where you want to set as current position.
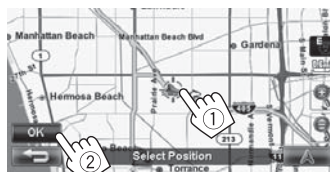
5 Adjust the direction.

33
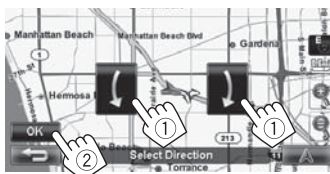
Editing registration of home/favorite points

1

2 **Select a registered point you want to edit.**

Selects your home

Displays the favorite point list and select one to edit on the list.

3

4 **Edit the information.**

Ⓐ Displays the name editing screen
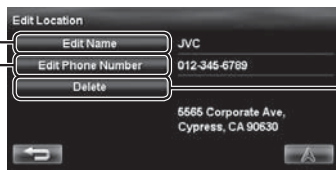
Ⓑ Displays the phone number editing screen

Ⓒ Deletes the registration

Ⓐ **To edit the name**

• You can use up to 30 characters.

Enters a space

Displays other keyboards

• For available characters, ☞ page 11.

Ⓑ **To edit the phone number**

Press: Deletes last character
Hold: Deletes all characters

Ⓒ **To delete the registration**
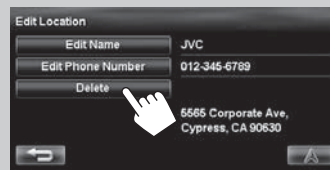
A confirmation message appears.

To delete all registered items, ☞ page 39.

Using information service (Only for KW-NT50HDT)

This function is available on KW-NT50HDT only, not equipped with on KW-NT30HD.

Using the traffic information service (Total Traffic HD NET WORK Service)

As the traffic information is transmitted by radio stations, JVC cannot assume responsibility for the completeness or accuracy of the information.

Traffic information on the map

Traffic icon (☞ page 36)
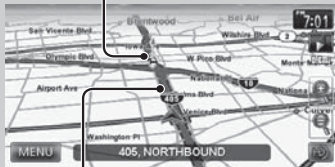
Congestion

- Traffic icons are displayed on the map when its scale is between 80 ft (25 m) and 1.5 mi (2.5 km) with <**Traffic Icon**> setting activated (☞ page 41).

How traffic information is reflected in navigation

The traffic information is reflected in navigation differently according to <**Bypass Traffic**> setting.

1

2

Auto	The System automatically calculates a new route when you approach a traffic event.
Manual	Operating buttons appear on the screen when you approach a traffic event. Recalculate the route manually. (☞ below)
Off	The System does not take traffic information into account.

- It may not avoid a congestion even if <**Auto**> is selected.

When <**Manual**> is selected...

Recalculates the route   Ignores the traffic alert

Shows the detail of the alert

Appears when you approach a traffic event on your route

- The traffic alert indication disappears while you are checking due to a change of traffic conditions. The traffic alert indication also disappears if you do not confirm the rerouting in one minute.

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ENGLISH

Using information service (Only for KW-NT50HDT)

This function is available on KW-NT50HDT only, not equipped with on KW-NT30HD.

Checking the traffic information

<u>From <Traffic List></u>

1

2 Select a list (①), then a traffic alert (②).
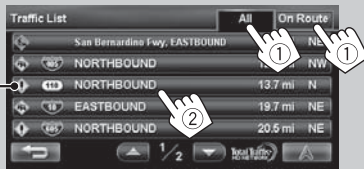
The icons of traffic alert which are not on your route are shown in gray when all the information is displayed.

> [**All**]: Lists all the information.
> [**On Route**]: Lists the information on your route.

Details of the selected alert are displayed.
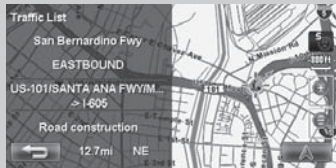
<u>On the map</u>

1 Touch the traffic icon.
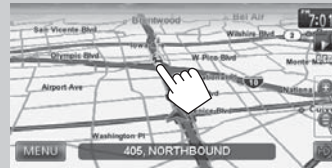
2

- If there are several POIs on the selected position, select one from the list.
  – The list appears only when <**POI Icon**> is set to <**On**>. (☞ page 15)
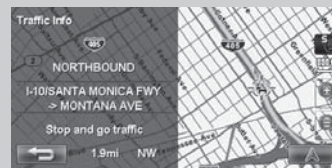
List of traffic icons

🚗	Traffic jam	⟨⟩	Narrow lanes	❗	Other caution event
	Roadworks	◆	Accident	ℹ️	Information
🚫	Road is blocked or closed		Condition		

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This function is available on KW-NT50HDT only, not equipped with on KW-NT30HD.

Using the area information service (Total Traffic HD NET WORK Service)

You can use the information service provided by HD Radio broadcasts.
• The contents of the information service depends on the HD Radio station.

To display the information screen

The information screen appears.
• The contents of the screen depend on the broadcast.

To bookmark favorite items

You can store favorite items on the bookmark list.
[🔽]: Displays the bookmark list.
[🔼]: Adds the selected item to the bookmark list.

To delete the item from the bookmark list

1

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

Selects/deselects all items

37
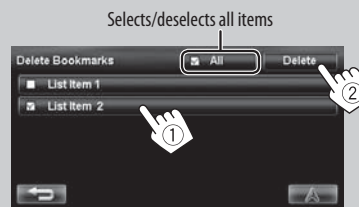
Checking the information of the navigation system

GPS
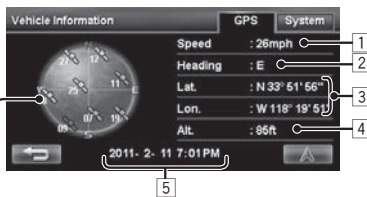
Satellites

(Green): Receiving the GPS signals and used for the positioning.

(Yellow): Receiving the GPS signals.

(Gray): Not receiving the GPS signals.

1   Current speed*[1]
2   Direction of the car*[1]
3   Latitude and longitude of your current position*[1]
4   Altitude of your current position*[1]
5   Date/Local time

• When the System cannot receive the GPS signals, the value of each item above are shown as "- -."

System
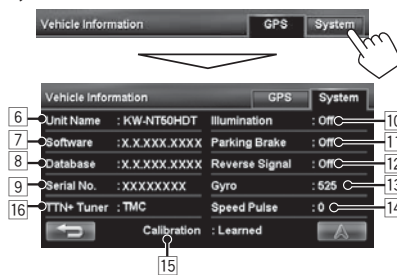
6   Name of the unit
7   Version of the software

8   Version of the map database
9   Serial number
10   Connection status of the illumination control lead
   <**On**>: The illumination signal is detected.
11   Connection status of the parking brake lead
   <**On**>: The parking brake is engaged.
12   Connection status of the reverse gear signal lead
   <**On**>: Reverse gear signal is detected.
   • If the rear view screen is displayed when shifting the gear to the reverse (R) position, the reverse gear signal is detected (<**On**>).
13   Status of the gyroscope
14   Speed pulse rate
15   Status of calibration*[2] *[3]
   <**Processing**>: The current position cannot be determined without data from GPS satellites.
   <**Learning**>: The current position can be determined even when the System cannot receive data from GPS satellites.
   <**Learned**>: The current position can be determined accurately even when the System cannot receive data from GPS satellites.
16   Information service being received (Traffic or Area information; only for KW-NT50HDT)

*[1] *These information may not be shown correctly when the reception of GPS signals is poor.*
*[2] *The calibration does not function without the connection of GPS antenna and the speed signal lead. For the connection, ☞ Installation/Connection Manual (separate volume).*
*[3] *Driving under various conditions completes the calibration faster. If <**Processing**> remains on the screen for long period, check the connection of the GPS antenna and the speed signal lead.*

Initializing memories/navigation settings

1

2
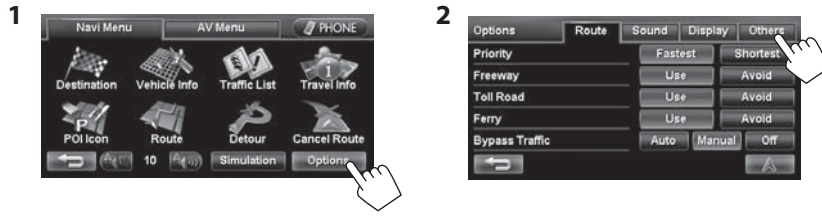
Memories of home, favorite points or previous destination/via points

🏠	Deletes your home.
⭐	Deletes all favorite points.
🏁	Deletes all the places in the list of previous destinations/via points.

Navigation settings

The initial settings of the navigation menu are restored.

Calibration Data

The Navigation System is gradually optimized by automatic calibration.
Reset the calibration data in the following cases:
• When you reinstall the unit in another car.
• When you replace or rotate the tires.

A confirmation message appears.

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Navigation menu items

Navi Menu—Options

Switches the category by pressing the corresponding tab

	Menu items	Selectable settings	Initial: **Underlined**
Route	**Priority**	**Fastest**, **Shortest** (☞ page 29)	
	Freeway/ Toll Road/ Ferry	**Use**, **Avoid** (☞ page 29)	
	Bypass Traffic (Only for KW-NT50HDT)	**Auto**, **Manual**, **Off** (☞ page 35)	
Sound	**Attention tone***	Select the type of attention tone, coming out before the voice guidance by pressing [◄] or [►]. **Off**, **Normal**, **Prompt**, **A.I.**	
	Guidance Volume*	Adjust the volume of the voice guidance. (The adjustment does not affect the audio volume.) **0** to **20**; Initial **10**	
	Output*	Select the guidance output channel (for front channel only). (This setting does not affect the output balance (Fader setting) of AV source.) **L ch.**, **L+R ch.**, **R ch.**	
	Music Mix	You can turn down the volume of the AV source while voice guidance is produced. **Muting**: The AV source sound does not come out. **Att.**: The AV source sound is lowered. **Normal**: The AV source sound is not affected.	
	Speed Alert	The System sounds an alarm when you surpass the speed limit of the current road by the set value. Press [+] or [−] to select the value. The unit ("km/h" or "mph") follows the <**Scale unit**> setting. (☞ page 41) **Off**, **3mph (5km/h)**, **6mph (10km/h)**, **10mph (15 km/h)**, **15mph (25km/h)**, **20mph (35km/h)**	
	POI Alert	Alert sounds when you approach within 0.2 mi (300 m) of a POI of the selected category. (You can select any categories from the following; Gas Station, Parking, Car Rental and Car Dealer & Service.) • To select categories for POI alert, press [**Edit**], then select categories and sub-categories (the selected items are marked with "✔"). To activate POI alert for selected categories, press [**On**]. To deactivate it, press [**Off**].	

* *When adjusting these items, test tone is produced.*

Menu items	Selectable settings	Initial: **Underlined**
View Mode	2D, 2D, 3D (☞ page 16)	

Display

Menu items	Selectable settings
Magnified View (☞ page 30)	**On**: A magnified map is displayed when approaching the next turn. **Off**: No magnified map is displayed.
Vehicle Icon	, ,
Color Configuration	Change the color of the map and the route you take for day time and night time. Press [**Enter**] to display the adjustment screen, then change the following settings: • **Day Map Color/Night Map Color**: **Normal**, **Soft**, **Vivid** • **Day Route Color/Night Route Color**: Select from 3 colors. To switch between the day color setting and night color setting, press .
Night Map Mode	**Auto**: Switches to the night screen when you turn on the headlights. • The illumination control lead connection needs to be completed. (☞ Installation/Connection Manual) **On**: Activates night screen. **Off**: Deactivates night screen.
Current Street Name	Select whether to show or hide the current street name on the map. **Show**, **Hide** (☞ page 15)
Speed Limit Sign	Select whether to show or hide the speed limit icon on the map. **Show**, **Hide** (☞ page 15)
One Way	Select whether to show or hide the information of one way road on the map. **Show**, **Hide**
Traffic Icon (Only for KW-NT50HDT)	Select whether to show or hide the traffic icon on the map. **Show**, **Hide** (☞ page 36)

Others

Menu items	Selectable settings
Scale unit	Select the measuring units for distance. • The unit setting you find at your first access to the menu varies depending on your State/Province selection in the initial settings (☞ page 9). **km**, **mile**
WAAS /EGNOS	Select whether to use WAAS and EGNOS to increase the accuracy of positioning. • For some areas or conditions, the position accuracy may not be improved even if <**On**> is selected. In this case, select <**Off**>. **On**, **Off**
Vehicle Position	☞ page 33
Clear User Memory	☞ page 39
Restore Navi Settings	☞ page 39
Reset Calibration Data	☞ page 39

Additional information

How you are guided

- If GPS signal reception is poor, navigation guidance may not be correct.
- The System may not receive GPS signals in the following places...
  – in a tunnel or parking lot in a building
  – under an overhead road
  – in a place surrounded by high buildings or by closely standing trees
- Make sure to connect reverse signal lead (☞ Installation/Connection Manual); otherwise, your current position may not be displayed correctly.
- The position of your car may not be detected correctly in the following cases...
  – when driving on a road close to the other one (e.g. a highway and ordinary road running in parallel)
  – when turning at an almost straight fork in the road
  – when driving on a gridiron road
  – after taking a ferry, etc.
  – when driving on a steep mountain road
  – when driving on a spiral road
  – when turning left or right after running on a long straight road
  – when driving in a zigzag line on a broad road
  – when starting your car shortly after starting the engine
  – when driving for the first time after installing the unit
  – when changing tires or attaching chains on the tires
  – when tire slip occurs continuously and frequently
  – after driving on areas other than a road (e.g. private lands or parking lots)
  – after driving in underground or tower type parking lots
  – after rotating your car on a turntable
  – after frequent stops and starts in a congestion
  – when the accuracy of GPS is deteriorated intentionally
  – when driving on a road constructed recently

- The route calculated by the System is one of the possible routes to your destination. The route is not always the most appropriate one.
- If no-exit roads (only entering the rotary from the roads is allowed) exist on the rotary, the no-exit roads can neither be shown in the route guidance on the display nor counted in the route guidance voice message.
- The following phenomena may occur even if the System is working correctly...
  – It may guide to a closed road or to a route requiring U-turn.
  – It may not guide to your destination if there is only a narrow road or no road to your destination.
  – It may show a different road name.
  – It may not ask you to turn at a junction even if you need to.
  – It may give guidance different from the actual road conditions.
  – It may give incorrect distance information.

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List of POI icons

	Gas Station
	Parking
	Park & Ride
	Parking Garage
	Hotel
	Restaurant
	Restaurant Chain
	Desserts & Cafe
	Shopping
	Book Store
	Convenience store
	Fashion
	Flower & Jewelry
	Furniture
	Hair & Beauty
	Home Improvement
	Music & Video
	Office Supply
	Shopping Mall
	Sporting Goods
	Supermarket
	Toys
	Department & Grocers

	Special store
	Barnes & Noble Booksellers
	Bed Bath & Beyond
	Big5
	Blockbuster Video
	Borders
	Crate & Barrel
	Hollywood Video
	Home Depot
	IKEA
	Lowe's
	Movie Gallery
	Office Depot
	Office Max
	Sports Authority
	Staples
	Toys"r"us
	Electronics
	Wireless Carrier
	Leisure
	Amusement Park
	Bowling Center
	Camping Ground
	Golf Course
	Recreation Facility
	Ski Resort
	Tourist Attraction
	Travel Agency
	Zoo
	Entertainment
	Art Galleries
	Casino
	Museum
	Night Life
	Theater

	Travel
	Airport
	Rest Area
	Car Rental
	Car Dealer & Service
	Motorcycle Dealer
	Used Car Dealer
	Auto Service shop
	Bank
	Pharmacy
	Medical
	Dentist
	Emergency
	Hospital/Polyclinic
	Medical Service
	Community
	City Hall
	Community Center
	Court House
	Exhibition Center
	Government Office
	Library
	Place of Worship
	Police & Fire
	Post Office
	School
	Service
	University & College

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AV Operations

Common operations on AV screens

<AV Menu> screen

| Navi Menu | AV Menu | PHONE |

HD Radio   DISC   SD   USB

BT-Audio   Front AUX   AV-IN   SAT

AV Off   Settings

Selects the source (☞ below) ⎯
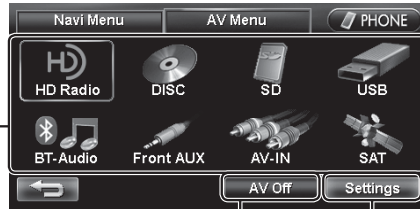
Turns off the AV source (☞ below)   Displays <**Settings**> (☞ pages 72 to 75)

Selecting the playback source
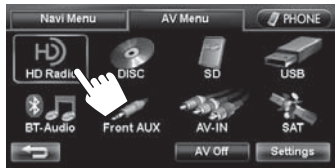
HD Radio	Switches to the radio broadcast. (☞ pages 45 to 49)
DISC	Plays a disc. (☞ pages 50 to 56)
SD	Plays files on an SD card. (☞ pages 57 and 58)
USB*	Plays files on a USB device. (☞ pages 57 and 58)
iPod*	Plays an iPod/iPhone. (☞ pages 59 to 65)
BT Audio	Plays a Bluetooth audio player. (☞ page 85)
Front AUX	Switches to an external component connected to the AUX input terminal on the monitor panel. (☞ page 69)
AV-IN	Switches to an external component connected to VIDEO IN/LINE IN jacks on the rear panel. (☞ page 69)
SAT	Switches to the satellite radio broadcast. (☞ pages 66 to 68)

* *"iPod" is shown as the source instead of "USB" when an iPod/iPhone is connected.*
The iheartradio icon is displayed when the unit is in iheartradio mode.

- Available sources depend on the external components you have connected, media you have attached and the <**Front Aux Input**>, <**AV Input**> or <**Bluetooth Audio**> settings you have made (☞ pages 74 and 75).
- You can erase the clock display while a video source is played back (such as DVD, video from an external component, or iPod video). (<**Clock on Video/Screen-Off**>, ☞ page 74)

You can also change the source by pressing (SRC) repeatedly.

Turning off the AV source

BT-Audio   Front AUX   AV-IN   SAT

AV Off   Settings

or

SRC

[**Hold**]
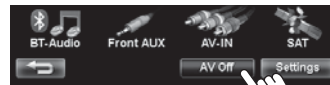
AV source is turned off.

- To activate the AV function, press (SRC).

Listening to the HD Radio™ broadcast

What is HD Radio™ broadcasting?

HD Radio stations can deliver high-quality digital sound—AM digital will have FM-like sound quality (in stereo) and FM digital will have CD-like sound quality—with static-free and clear reception. Furthermore, stations can offer text and data, such as artist names, song titles, and Program Service Data (PSD).

- HD Radio tuners can also tune in to conventional analog broadcasts.
- Many HD Radio stations offer more than one channel of programming. This service is called multicasting.
- By using PSD, you can easily purchase the songs at iTunes Store.
- To find HD Radio stations in your area, visit <http://www.hdradio.com/>.

Reception indicators
- HD: Lights when receiving an HD Radio broadcast
- ST: Lights when receiving an FM stereo broadcast

Station frequency currently tuned in

Preset no.

TAG indicator (☞ page 48)

HOLD indicator (☞ page 46)

Sound mode (☞ page 70)

Station Call Sign and channel number for the HD Radio broadcast

Band

Displays the album artwork or the station or the station logo*.

PTY code for the HD Radio broadcast

Only when receiving HD Radio station: the song information currently received
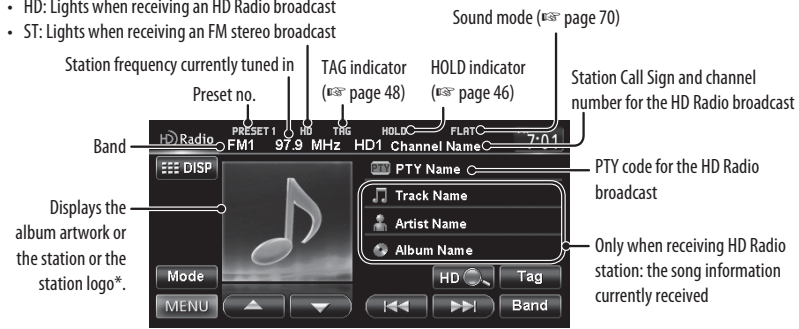
* The station logo is displayed when there is no album artwork.
If there is no artwork or station logo available, the default artwork is displayed.
- When tuning into an HD Radio Multicast sub-channel directly (such as from the preset list), "Linking..." appears for a while.

[**Band**] Selects the band.
→FM1 → FM2 → FM3 → AM →

[I◄◄] [►►I] • Searches for a station.
Press: Auto search
Hold: Manual search
• Selects a sub-channel when receiving HD Radio Multicast channels.

[▲] [▼] Selects a preset station.
[Tag] ☞ page 48

[HD] Searches for HD Radio stations only.

[DISP] Switches between the preset list screen and tuner source screen.
[**Mode**] ☞ pages 46 to 48

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Changing HD Radio reception mode

While receiving an HD Radio broadcast, you can change the reception mode — digital or analog.
• This setting cannot take effect for the conventional FM/AM stations.

1

2
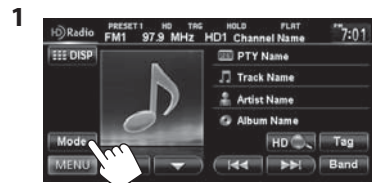
Auto	Switch between digital and analog audio automatically. • In the case when the radio station forces the reception mode to digital, the HOLD indicator flashes.
Digital	Tuning to digital audio or analog audio only. • HOLD indicator lights.
Analog	

• The setting automatically returns to <**Auto**> in the following cases:
  – When you tune in to another broadcast.

Storing stations in memory

You can preset six channels for each band.

Automatic presetting—SSM (Strong-station Sequential Memory)

1

2

A confirmation message appears.

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

To stop searching, press [I◄◄] or [►►I].

• During SSM search, all stations including conventional stations are searched and stored for the selected band.

Manual presetting

1 **Tune in to a station or channel you want to preset.** (☞ page 45)

Band   The station frequency you want to preset
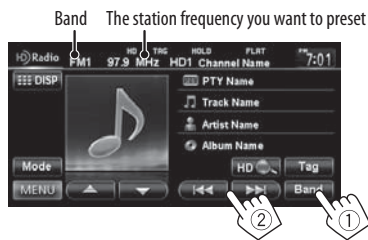
2 **Display the preset list.**

3 **Select a preset number.**

[Hold]
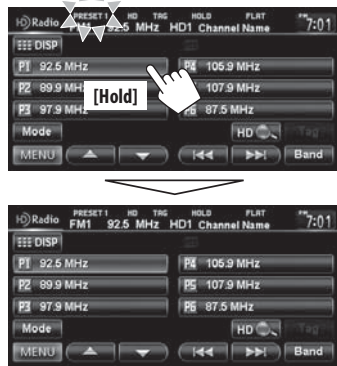
Selecting a preset station

1 **Display the preset list.**

2

Also changes preset stations

Reducing the interference

1

2

Auto	Increases the tuner selectivity to reduce interference noises between adjacent stations. (Stereo effect may be lost.)
Wide	Subject to the interference from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.

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Tagging/purchasing your favorite songs from iTunes Store

Some HD Radio broadcasts provide PSD (Program Service Data) for a song. You can tag the song and store its PSD while listening the song.
By using the tagging function, you can easily purchase the songs from iTunes Store.

Notes on storing tagged PSDs

• When pressing [**Tag**] within 10 seconds before or after the PSD changes (while the TAG indicator flashes), the tags for two songs are stored.
• You cannot tag a song in the following cases:
  – When the broadcast currently received does not support the iTunes Tagging or does not support PSD.
  – When stored PSDs on the unit exceeds 100.
  – When the song is already tagged.
  – While transferring the tagged PSDs to your iPod/iPhone is in progress.

• You can enjoy iTunes Tagging with the following types of iPod/iPhone models:
  – iPod classic
  – iPod nano (6th Generation)
  – iPod nano (5th Generation)
  – iPod nano (4th Generation)
  – iPod nano (3rd Generation)
  – iPod touch (4th Generation)
  – iPod touch (3rd Generation)
  – iPod touch (2nd Generation)
  – iPod touch (1st Generation)
  – iPhone 4
  – iPhone 3GS
  – iPhone 3G
  – iPhone

Step 1: Tagging the song

While receiving a song with PSD...
Tag
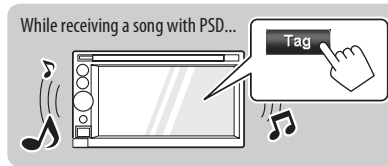
Lights up while receiving a song with PSD

The tagged PSD is stored on the unit.

• **When iPod/iPhone is connected**, the tagged PSD is automatically transferred to the iPod/iPhone. Go to "**Step 3: Purchasing songs from iTunes Store** (☞ page 49)" to purchase the song.

To check/delete the PSDs stored on the unit

1

2

The number of stored PSDs/max storage

Deletes all PSDs from the unit

48

Step 2: Transferring the tagged PSD to your iPod/iPhone
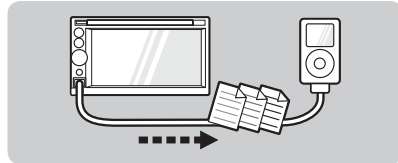
Connect the iPod/iPhone to the unit (☞ page 59)**.**

The source is changed to "iPod," and the tagged PSDs are transferred automatically to your iPod/iPhone.

Appears during   Transferring
transferring the PSDs   progress
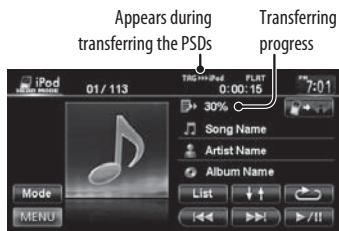
- After the data transfer is completed, the tagged PSDs are automatically deleted from the unit.
- Your iPod/iPhone must have 64 KB free space, which is required for transferring a tagged PSD.

Step 3: Purchasing songs from iTunes Store

- iTunes 7.4 or later version is required to purchase the tagged songs.
- For details about iPod/iPhone and iTunes, refer also to the instructions supplied with the iPod/iPhone or visit <http://www.apple.com/>.

1 **Connect the iPod/iPhone to the PC.**

2 **Synchronize the iPod/iPhone to the iTunes.**
The tagged PSDs are transferred to PC, and iTunes displays the list of the tagged songs.
   - After the data transfer is completed, the stored PSDs are automatically deleted from the iPod/iPhone.

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Disc operations

❶ **Insert a disc.**

The source changes to "DISC" and playback starts.

Label side
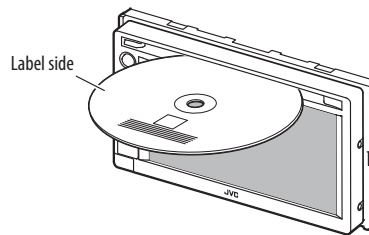
Caution on volume setting:

Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.

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

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 eject a disc

• 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.
• If the disc cannot be ejected, ☞ page 4.

To prohibit disc ejection

SRC   +

[**Hold**]

A confirmation message appears.

To cancel the prohibition, repeat the same procedure.

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.

Playback mode   Audio format

Disc type

Title no./Chapter no./
Playing time

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

[▶ / II]	Starts playback/pauses.
[■]	Stops playback.
[|◄◄] [►►|]	*Press*: Selects chapter.
	Hold: Reverse/forward search.
	(Search speed: x2 ⇒ x10)
[**Aspect**]	Selects aspect ratio. (☞ page 72)
[**Angle**]	Selects view angle.
[**Audio**]	Selects audio language.
[**Subtitle**]	Selects subtitle language.
[**Menu**] [**Top M**]	Displays the disc menu.

[DISP]	Hides/displays the operating buttons on the screen.
[ADJ]	Adjusts the picture. (☞ page 72)
[◇]	Displays the menu selecting screen. (☞ below)
[**Mode**]	• Selects repeat playback mode. (☞ page 55)
	• Changes the settings for disc playback. (☞ page 56)

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.

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
(**II**: pause/**■**: stop)

[**► / II**]   Starts playback/pauses.
[**■**]   Stops playback.
[**I◄◄**] [**►►I**] *Press*: Selects chapter.
                   Hold: Reverse/forward search.
                   (Search speed: x2 ⇨ x10)
[**Aspect**]   Selects aspect ratio. (☞ page 72)
[**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.

[**DISP**]   Hides/displays the operating buttons
                   on the screen.
[**ADJ**]   Adjusts the picture. (☞ page 72)
[**Mode**]   • Selects repeat playback mode.
                     (☞ page 55)
                   • Changes the settings for disc
                     playback. (☞ page 56)
[**Prog.L**]   Displays the Original Program.
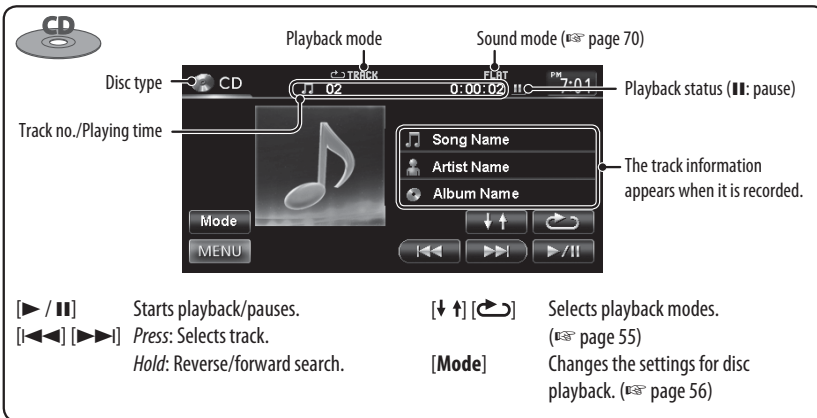
EN_KW-NT30_50[J].indb   53   1/31/2011   3:24:25 PM

Disc operations

CD

Playback mode   Sound mode (☞ page 70)

Disc type — CD   ⤷ TRACK   FLAT   PM 7:01   — Playback status (❚❚: pause)
♪ 02   0:00:02 ❚❚

Track no./Playing time

♫ Song Name
👤 Artist Name   — The track information
💿 Album Name   appears when it is recorded.

Mode   ↓↑   ⤺
MENU |◀◀   ▶▶| ▶/❚❚

[▶ / ❚❚]	Starts playback/pauses.	[↓ ↑] [⤺]	Selects playback modes.
[|◀◀] [▶▶|]	*Press*: Selects track.		(☞ page 55)
	Hold: Reverse/forward search.	[**Mode**]	Changes the settings for disc
			playback. (☞ page 56)

MP3/WAV

Audio format (MP3/WAV)   Playback mode   Sound mode (☞ page 70)

Disc type — CD   MP3   FLAT   PM 7:01   — Playback status
03 ♪ 03   0:00:09 ❚❚   (❚❚: pause)

Folder no./Track no./
Playing time

While playing, "Jacket   ♫ Song Name
picture" is shown if the file   👤 Artist Name   — Tag data appears only
has the tag data including   💿 Album Name   when it is recorded.*
"Jacket picture".   (Current folder name and
Mode   List   ↓↑   ⤺   file name appear if not
MENU   ▲   ▼ |◀◀   ▶▶| ▶/❚❚   recorded.)

[▶ / ❚❚]	Starts playback/pauses.	[↓ ↑] [⤺]	Selects playback modes.
[|◀◀] [▶▶|]	*Press*: Selects track.		(☞ page 55)
	Hold: Reverse/forward search.	[**Mode**]	Changes the settings for disc
[▲] [▼]	Selects folder.		playback. (☞ page 56)
		[**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
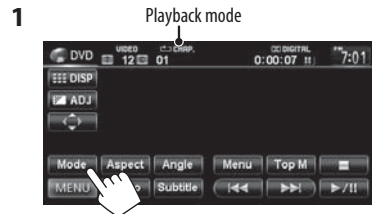
Playback mode

2 Select Repeat mode.
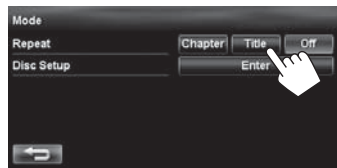
• For DVD:

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**>.

For CD/MP3/WAV

Playback mode

Selects Random playback mode   Selects Repeat playback mode

• 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.

Disc operations

Settings for the disc playback
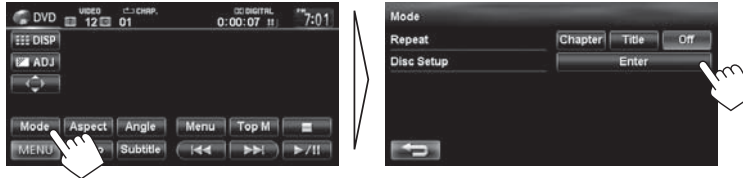
Disc Setup items	Selectable settings	Initial: **Underlined**
Menu Language	Select the initial disc menu language; Initial **English** (☞ also page 77).	
Audio Language	Select the initial audio language; Initial **English** (☞ also page 77).	
Subtitle Language	Select the initial subtitle language or erase the subtitle (**Off**); Initial **Off** (☞ also page 77).	
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 ◆ 4:3 LB (Letterbox) ◆ 4:3 PS (PanScan) The Monitor Type setting also determines how videos are displayed on the unit.	
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.	

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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.
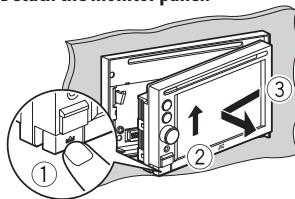
2 Insert an SD card.
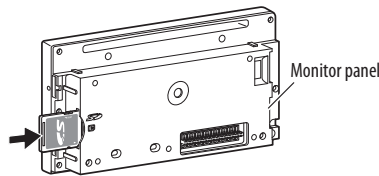
Monitor panel

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

3 Attach the monitor panel.
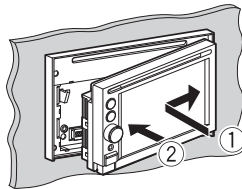
The source changes to "SD" and playback starts.

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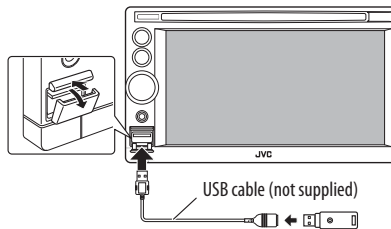
The source changes to "USB" and playback starts.

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 76.

SD/USB operations

MP3/WMA   **MP3/WMA**

Audio format
(MP3/WMA)   Playback mode   Sound mode (☞ page 70)

Source type ("SD" or "USB")

SD   WMA   ↻FOLDER   FLAT   PM 7:01
01 ♫ 04   0:01:26 ❚❚

Folder no./Track no./
Playing time

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

♫ Song Name
👤 Artist Name
💿 Album Name

List   ↓↑   ↻

MENU   ▲   ▼ |◀◀   ▶▶| ▶/❚❚

Playback status
(❚❚: pause)

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

[▶ / ❚❚]   Starts playback/pauses.
[|◀◀] [▶▶|]   *Press*: Selects track.
Hold: Reverse/forward search.
[▲] [▼]   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-U39 (not supplied)

KS-U39 (not supplied)

or

USB 2.0 cable (accessory of the iPod/iPhone)
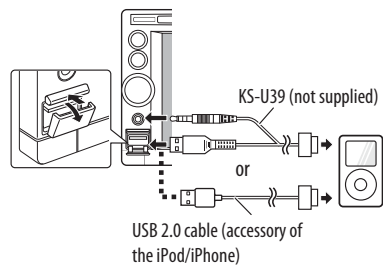
- When you turn on this unit, the iPod/iPhone is charged through the unit.
- You can control the following iPod/iPhone models:
  - iPod with video (5th Generation)*
  - iPod classic*
  - iPod nano (6th Generation)
  - iPod nano (5th Generation)*
  - iPod nano (4th Generation)*
  - iPod nano (3rd Generation)*
  - 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*

* *To watch the video with its audio, connect the iPod/iPhone using USB Audio and Video cable (KS-U39, not supplied).*

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.

Setting the iPod control mode and the speed of the audio books
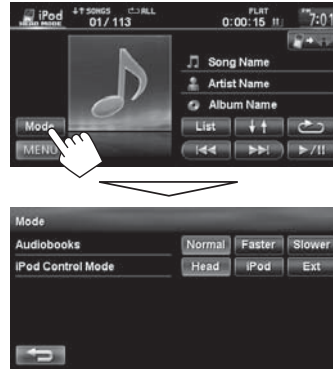
Audiobooks
Select the speed of audio books.

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.

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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 70)

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 Name
Artist Name
Album Name

Song/video information

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.		• ⟳ ONE: Functions the same as "Repeat One."
	Hold: Reverse/forward search.		• ⟳ ALL: Functions the same as "Repeat All."
[**List**]	Displays the Music/Video menu on the iPod/iPhone. (☞ page 61)		
[**Aspect**]*1	Selects aspect ratio. (☞ page 72)	[DISP]*1	Hides/displays the operating buttons on the screen.
[↓ ↑]	Selects Random playback mode.*2	[ADJ]*1	Adjusts the picture. (☞ page 72)
	• ↓ ↑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."	[ ]	Switches the iheartradio application mode.

*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)

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

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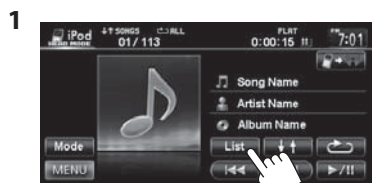
2 **Select the menu (Music or Video) (①), a category (②), then a desired item (③).**

Music menu:

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

Corresponding icon lights in orange. (🎵 : Music / 🎞 : Video)
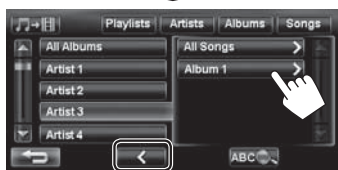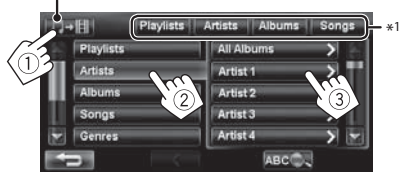
Returns to the previous layer

Video menu:

• 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.*

Searching for items in the selected category by alphabet and number

1

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

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 iheartradio with the iPod/iPhone ▬▬▬

You can connect your iPod touch/iPhone to this unit and listen to iheartradio.

What is iheartradio?

iheartradio is an iPod touch/iPhone application that can deliver access to over 750 local radio stations in both AM and FM, as well as commercial-free and artist-programmed channels. All stations are streamed in high-quality AAC format.

Connecting iPod touch/iPhone

1 **Start the iheartradio application by your iPod touch/iPhone.**

2 **Connect the iPod touch/iPhone to the unit (☞ page 59).**

The source is changed to "iPod".
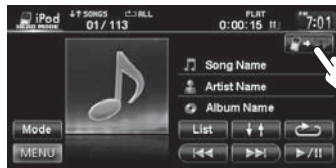
3

- The first station in the [Favorite] station list is automatically selected. If there are no stations in the [Favorite] station list, the iheartradio application is stopped until a station is selected (☞ page 64).

Channel number[*1]

iheartradio mode   Station name   Sound mode

■ : Sound off

Displays the album
artwork or the station
logo.[*2]

Song information

[▶ / ■]	Turns the sound on and off.	[☆]	Storing your favorite stations (☞ page 64)
[◀◀] [▶▶]	*Selects the previous/next favorite station.*	[ ]	Returns to iPod touch/iPhone playback.
[**Random**]	Randomly selects a station.		
[**Stations**]	Displays the Station List.		

*1 The channel number is the number of the Favorite station according to its registration order.
*2 The station logo is displayed when there is no album artwork or the iheartradio application is stopped. If there is no artwork or station logo available, the default artwork is displayed.

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ENGLISH

Searching from the Station List

You can use the Station List screen to search for stations.

1 Select [Stations].

- It may take time to display lists with many items.

2 Select the station type (①), and then the desired station (②).

- Favorite stations that were stored with the unit are displayed in the Favorite list.

Storing your favorite stations

Favorite stations that were stored are displayed in the Station List. (☞ left)

The station currently being listened to is added to the [Favorite] station list.

- A maximum of 100 stations can be added to the [Favorite] station list.
- Stations are added to the end of the [Favorite] station list.

The [☆] button is not available when listening to a station that has already been stored as a favorite.

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To delete the station from the favorite list

1 **Select (①), and then select (②).**

2. **Select items to delete (①), and delete them (②).**
The selected items are marked "✔".

Selects/deselects all items

A confirmation message appears.

Searching for stations in All Cities category by alphabet

1

Erases the search operation buttons

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

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

• Only available characters are selectable.

3 **Select the desired station from the Station List.**

Listening to the satellite radio

Before operating, connect either one of the following (not supplied) to the expansion port on the rear of the unit.

To listen to the SIRIUS Satellite radio	SCC1 and KS-SRA100
	D&P, SCVD0C1 and KS-SRA100
To listen to the XM Satellite radio	JVC Smart Digital Adapter–XMDJVC100
	CNP2000UCA and CNPJVC1

Activating subscription

For SIRIUS Radio

1 **Select "SAT" as the source.** (☞ page 44)
   The SIRIUS Satellite radio starts updating all the SIRIUS channels. (See "Channel Updates—SIRIUS/XM" below.)
   • Once completed, SIRIUS Satellite radio tunes in to the Preview Channel.

2 **Press [Mode] to display SIRIUS ID.**

3 **Contact SIRIUS on the internet at <http://activate.siriusradio.com/> to activate your subscription, or you can all 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

1 **Select "SAT" as the source.** (☞ page 44)
   XM Tuner* starts updating all the XM channels."Channel 1" is tuned in automatically. (See "Channel Updates—SIRIUS/XM" below.)

2 **Check your XM Satellite Radio ID labelled on the casing of the XM Tuner, or tune in to "Channel 0."**
   The 8-digit (alphanumeric) ID number is displayed on the screen.
   To cancel the ID number display, select any channel other than "0."

3 **Contact XM Satellite radio on the internet at <www.xmradio.com> and click on "Activate Radio," or you can call 1-800-XM-RADIO (1-800-967-2346).**
   Once activated, the unit can then be tuned to one of the available channels.

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

Channel Updates—SIRIUS/XM
• If channels are updated after subscription, updating starts automatically, and no sound can be heard:
   – For SIRIUS Satellite radio: "UPDATING" appears.
   – For XM Satellite radio: "UPDATING" (when XMDJVC100 is connected) or "UNAUTH" (when CNP2000UCA and CNPJVC1 are connected) appears.
• Update takes a few minutes to complete.
• Do not press any buttons or perform any operations until updating is completed.

Preset no.
Signal Reception indicator
Sound mode (☞ page 70)

Band

Channel no./Channel name
Category name
The song information currently received

Only for SIRIUS

PRESET 1 LEVEL ⚡ ☶)   FLAT   PM 7:01
SAT SR1 🔲 Cannel Name
DISP 🔲 Category Name ○
👤 Artist Name
🎵 Song Name
✓ Composer Name

Mode ◀ CAT CAT ▶ List 🔲Direct
MENU ▲ ▼ |◀◀ ▶▶| Band

[**Band**]	Selects the band.	[▲] [▼]	Selects a preset channel.
	For SIRIUS: ┌→ SR1 → SR2 → SR3 ┐	[◀ **CAT**]	Selects a category.*
	For XM: ┌→ XM1→ XM2→ XM3 ┐	[**CAT** ▶]	Selects a category.*
[|◀◀] [▶▶|]	*Press*: Selects a channel.	[**List**]	Displays the Category/Channel List.
	Hold: Changes the channel rapidly.	[🔲Direct]	Selects a channel directly.
	– While searching, invalid and	[☷ DISP]	Switches between preset list screen
	unsubscribed channels are		and tuner source screen.
	skipped.	[**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 [***◀ CAT***] or [***CAT ▶***].*
  – *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 learn more about SIRIUS/XM programming or to become a subscriber, please visit <www.siriusxm.com>.

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Listening to the satellite radio

Storing channels in memory ▬▬▬

You can preset six channels for each band.

1 **Tune in to a station you want to preset.**
(☞ page 67)

| SAT | PRESET 1 | LEVEL ⚹il | | FLAT | PM 7:01 |
| | SR1 📻 Cannel Name | | | | |

③ ① ②
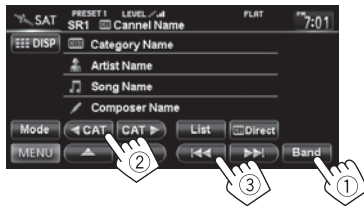
2 **Display the preset list.**(☞ page 67)

3 **Select a preset number.**

[Hold]
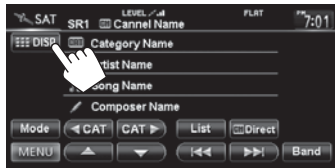
Selecting preset channels ▬▬▬

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

② ①
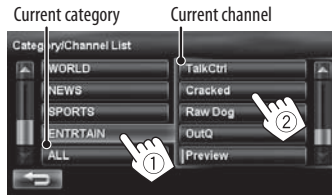
Selecting a channel directly

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

CH1__

① ②

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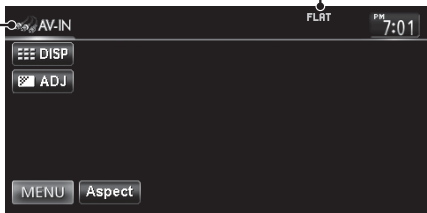
Using other external components

Sound mode (☞ page 70)

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

⊙ AV-IN   FLAT   PM 7:01

⊞ DISP

▧ ADJ

MENU Aspect

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

[**Aspect**]	Selects aspect ratio. (☞ page 72)
[⊞ DISP]	Hides/displays the operating buttons on the screen.
[▧ ADJ]	Adjusts the picture. (☞ page 72)

• Select an appropriate setting on <**Front Aux Input**> or <**AV Input**>. (☞ pages 74 and 75)

Front AUX

1 Connect an external component.

JVC

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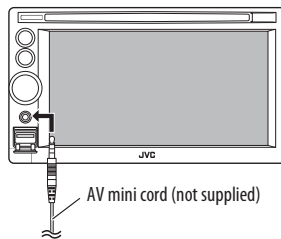
2 Select "Front AUX" as the source.
(☞ page 44)

**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
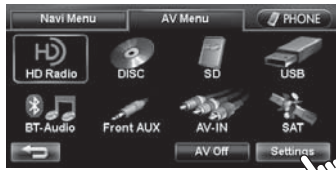
2

3 Select a sound mode.
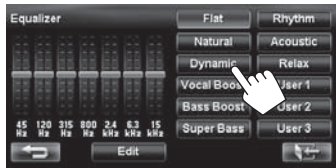
Storing your own adjustments

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

1 Repeat steps 1 and 2, then in step 3 on the left...
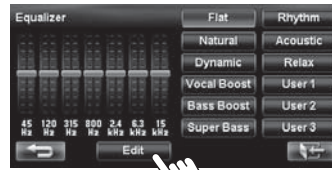
2 Select the frequency (①), then adjust the frequency level (②).

Also adjusts the frequency level

3 Store the adjustment.

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...
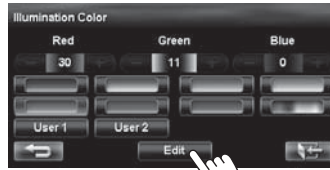
2 Adjust the color.

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

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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.**

| DVD ⬛ 12⬛ 01 | VIDEO | ⊏⊐CHAP. | 0:00:07 ‼ | DIGITAL | 7:01 |

| ⠿ DISP |
| ⬛ ADJ. |
| ⬦ |

| Mode | Aspect | Angle | Menu | Top M | ⬛ |
| MENU | Audio | Subtitle | ◄◄ | ►►| | ►/‼ |

2 **Adjust the picture (−5 to +5).**

Adjusts the brightness — ☀ 0 ☀

Adjusts the contrast — ◐ 0 ●

Adjusts the tint — ▭ 0 ▭

Adjusts the color — ⬤⬤ 0 ⬤
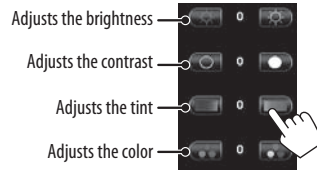
Changing the aspect ratio

You can change the aspect ratio for video playback.

Aspect

	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

Navi Menu	AV Menu	📞 PHONE
HD Radio	DISC	SD	USB
BT-Audio	Front AUX	AV-IN	SAT
⬅		AV Off	Settings

Settings	Audio	Display	Input	System
Fader/Balance			0 / 0	
Equalizer			Flat	
Subwoofer/HPF			Enter	
Volume Adjust			Fix	
Adaptive Volume	◄	Mid	►
⬅	▲ 1/2 ▼		⬛

Switches the category by pressing the corresponding tab

Menu items	Selectable settings	Initial: **Underlined**
Fader/Balance Fader/Balance	Center Fader :0 ▲ Balance : R1 ◄ ► ⬅ ▼ ⬛ 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**].

Audio (side tab)

Menu items	Selectable settings	Initial: **Underlined**

Audio

Equalizer	**Flat**/**Natural**/**Dynamic**/**Vocal Boost**/**Bass Boost**/**Super Bass**/ **Rhythm**/**Acoustic**/**Relax**/**User1**/**User2**/**User3** (☞ page 70)	
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**>.

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AV menu items

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 71	
Display Color	Select the color of the bars and buttons on the touch panel.	
Wallpaper	Select the display background from one of five choices. Press ▲/▼ to select a background and press [**OK**].	
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 row-group label for the rows from Dimmer through Demonstration; *Input* labels the Front Aux Input row.

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

Menu items	Selectable settings	Initial: **Underlined**

Input

AV Input	You can determine the use of the LINE IN and VIDEO IN jacks. (☞ page 69) **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 87)
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).

EN_KW-NT30_50[J].indb   75   1/31/2011   3:24:36 PM

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 1 A.
- 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.
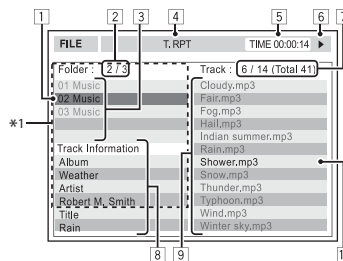
1   Current folder (highlighted) *[2]
2   Current folder number/total folder number *[2]
3   Folder list *[2]
4   Selected playback mode
5   Elapsed playing time of the current track
6   Operation status
7   **CD:** Current track number/total number of tracks on the disc
    MP3/WAV: Current track number/total 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

ENGLISH

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.

The countries where you may use the Bluetooth® function
• United States of America
• Canada

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.

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 80).
"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 the 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.

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)

To check the connection status of a Bluetooth device

 indicator appears when a Bluetooth device is connected

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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 80)
- 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 sample screen shown here depicts the KW-NT50HDT. When using the KW-NT30HD, the Device Name displayed is "KW-NT30HD".

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

2 **Display the Bluetooth setting screen.**

    For connecting a Bluetooth mobile phone
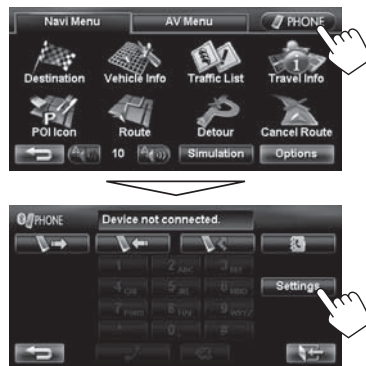
    <**Phone Settings**> is displayed.

For connecting a Bluetooth audio player

- To activate "BT Audio" for source selection, ☞ page 75 (<**Bluetooth Audio**>).
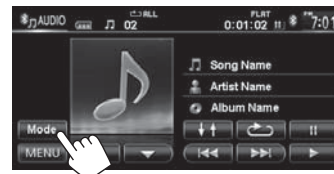
    <**Mode**> is displayed.

3 **Change the PIN code.**
- If you skip changing PIN code, go to step **4**.
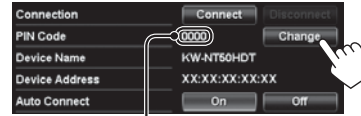
    PIN code (initial: 0000)

    Press: Deletes last character
    Hold: Deletes all characters

4

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EN_KW-NT30_50[J].indb   79   1/31/2011   3:24:36 PM
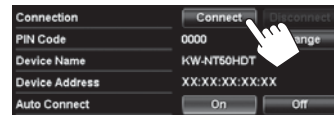
5

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 86)
  • For Bluetooth mobile phone: <**Phone Settings**>
  • For Bluetooth audio player: <**Mode**>
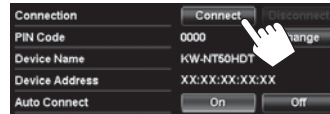
2 To connect

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
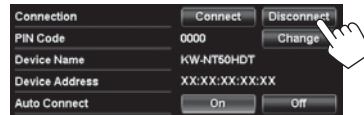
A confirmation message appears.

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 87).

When <Auto Answer> is set to <On>

The unit answers the incoming call automatically.
(☞ page 86)

Adjusting the volume of calls/ earpiece

Decrease   Increase
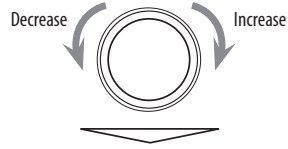
- This adjustment does not affect the volume level of the other sources.
- About the adjustable volume range, ☞ page 73 (<**Amplifier Gain**>).

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

About icons for category of the phone number
Icons which indicate the category of the phone number appear when the phone number is shown. The category icons shown may differ depending on the connected mobile phone.

Category icon

Tom	123-456-789X
Ken	123-456-78XX
Office	123-456-7XXXX

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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 83.
	• For searching for a number, ☞ page 83.

• If your mobile phone is compatible with Phone Book Access Profile (PBAP), ☞ page 84.

Making a call while operating on the navigation system

or

82
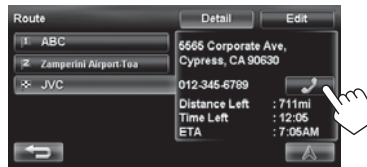
Copying the phone book

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

1 Display <Phone Book>.
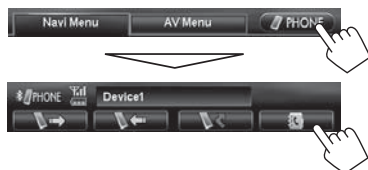
2

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

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.

ENGLISH

Deleting the phone number memory in the unit

1 Display the phone book/call list you want to delete. (☞ page 82)

2

Received Calls		Phone	System
Tom	👤	123-456-789X	
Ken	?	123-456-78XX	
Office	🏢	123-456-7XXXX	
Home	🏠	123-456-XXXX	
Mobile	📱	123-45X-XXXX	
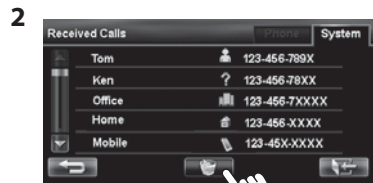
3 Select the items to delete (①), then delete them (②).

- The selected items are marked with "✔."

Selects/deselects all items

Delete Received Calls	■ All	Delete
■ Tom	👤 123-456-789X	
■ Ken	? 123-456-78XX	
☑ Office	🏢 123-456-7XXXX	
■ Home	🏠 123-456-XXXX	
■ Mobile	📱 123-45X-XXXX	

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

Phone Book		Phone	System
Tom	👤	123-456-789X	
Ken	?	123-456-78XX	
Office	🏢	123-456-7XXXX	
Home	🏠	123-456-XXXX	
Mobile	📱	123-45X-XXXX	

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Using Bluetooth audio player

- To activate "BT Audio" for source selection, ☞ page 75 (<**Bluetooth Audio**>).
- To register a new device, ☞ page 79.
- To connect/disconnect a device, ☞ page 80.

Battery reminder (only when the information comes from the device)   Playback mode   Sound mode (☞ page 70)

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 86)

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

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Bluetooth device settings

For Bluetooth mobile phone

1

2

For Bluetooth audio player

1

2
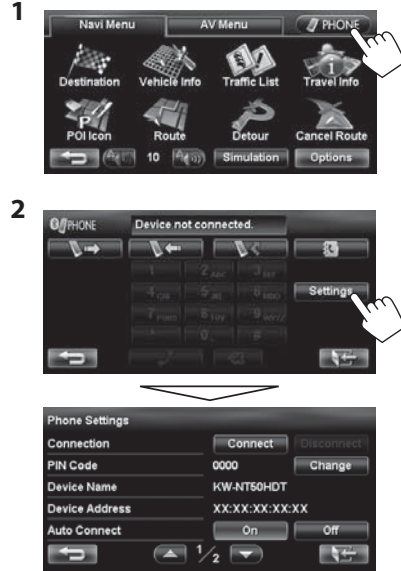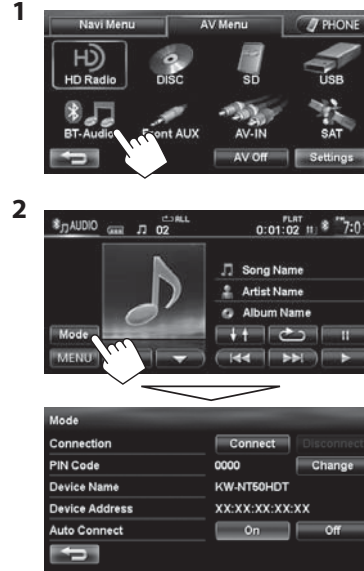
Menu items	Selectable settings Initial: **Underlined**
Connection	**Connect**: ☞ page 80 **Disconnect**: ☞ page 80
PIN Code	Displays the PIN code of the unit. • To change the PIN code, press [**Change**], enter a new PIN code, then press [**OK**].
Device Name	Shows the device name to be shown on the Bluetooth device — "KW-NT50HDT" or "KW-NT30HD."
Device Address	Shows the MAC address of the unit.
Auto Connect	**On**: 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. **Off**: The unit does not answer the calls automatically. Answer the calls manually.

* Appears only for <**Phone Settings**>.
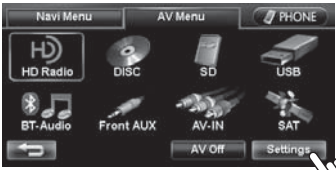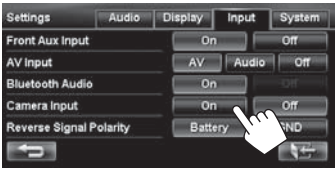
Rear View Camera Operations

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

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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.
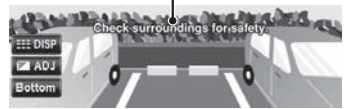
Caution message

[**DISP**]	Hides/displays the operating buttons on the screen.
[**ADJ**]	Adjusts the picture. (☞ page 72)
[**Bottom**][**Top**]	Adjusts the position of the caution message.

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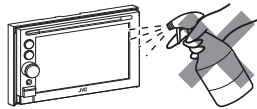
Recommended cleaning method:
Gently wipe the panel with a soft, dry cloth.

■ 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

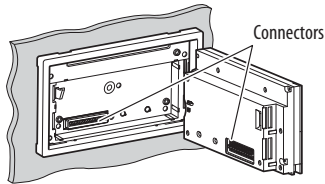• Always hold the disc by the edges. Do not touch its recording surface.
When storing a disc into its case, gently insert the disc around the centre holder (with the printed surface facing up).
• Make sure to store discs into the cases after use.

■ 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

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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).

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 72)
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 73)
<**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.

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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.

ENGLISH

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.

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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"	SIRIUS Satellite Radio is connected but does not have an active subscription. For information on how to subscribe, (☞ page 66)
	"Channel Not Authorized"	Selected channel is unauthorized. Select another channel or continue listening to the previous channel.
	• "Invalid Channel" • "Channel Not Available"	No broadcast on the selected channel. Select another channel or continue listening to the previous channel.

Troubleshooting/error messages

Symptoms	Remedies/Causes
Satellite radio	
"Channel Off Air"	Selected channel is not broadcasting at this time. Select another channel or continue listening to the previous channel.
"Loading"	The unit is loading the channel information and audio. Text information are temporarily unavailable.
• "Acquiring Signal" • "No Signal"	Make sure your Satellite Radio antenna is mounted outside the vehicle. Move vehicle to an area with a clear view of the sky.
"Check XM Tuner"	The XM Mini tuner is not connected. Connect the tuner.
• "No Antenna" • "Check Antenna"	Check your satellite radio antenna connection and be sure it is firmly attached.
"Reset 08"	Reconnect this unit and the Satellite radio correctly, and detach the monitor panel then attach it.
AV-IN/Front Aux	
"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 75)
Bluetooth	
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.

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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 87) • Check the connection.
The rear view screen is displayed when the gear is not in the reverse (R) position.	Check <**Reverse Signal Polarity**> setting. (☞ page 75)
"No Signal"	Check the connection.

Specifications

Design and specifications are subject to change without notice.

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

NAVIGATION SYSTEM	System & Service	L1, C/A code Global Positioning System Standard Positioning Service	
	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)

Specifications

AMPLIFIER	Power Output	20 W RMS × 4 Channels at 4 Ω and ≤ 1% THD+N	
	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	45 Hz, 120 Hz, 315 Hz, 800 Hz, 2.4 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
	Video Output (composite) VIDEO OUT	Color System	NTSC/PAL
		Video-Out Level/Impedance	1 Vp-p/75 Ω
	Other Terminals	Input	USB (⟶), Front AUX, LINE IN, VIDEO IN, CAMERA IN, Antenna input, MIC IN
		Others	OE REMOTE, Satellite unit connector
FM/AM TUNER (HD Radio System Compatible)	Frequency Range	FM	87.5 MHz to 107.9 MHz
		AM	530 kHz to 1 710 kHz
	FM Tuner	Usable Sensitivity:	8.3 dBf (0.7 µV/75 Ω)
		50 dB Quieting Sensitivity:	14.3 dBf (1.4 µV/75 Ω)
		Alternate Channel Selectivity (400 kHz):	65 dB
		Frequency Response:	20 Hz to 20 000 Hz (HD Radio broadcast)
			40 Hz to 15 000 Hz (Conventional broadcast)
		Stereo Separation:	70 dB (HD Radio broadcast)
			50 dB (Conventional broadcast)
		Capture Ratio	3.5 dB
	AM Tuner	Sensitivity:	13 µV
		Selectivity:	80 dB
		Frequency Response:	40 Hz to 15 000 Hz (HD Radio broadcast)
		Stereo Separation:	70 dB (HD Radio broadcast)

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	Signal Detection System	Non-contact optical pickup (semiconductor laser)	
DVD/CD	Frequency Response	DVD, fs=48 kHz/96 kHz	16 Hz to 20 000 Hz
		CD	
	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 $=$ 1 A	
BLUETOOTH	Version	Bluetooth 2.0 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 $\times$ 3 (horizontal) $\times$ 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 $\times$ H $\times$ D) • With trim plate and sleeve attached	Installation Size (approx.)	182 mm $\times$ 111 mm $\times$ 161 mm (7-3/16″ $\times$ 4-3/8″ $\times$ 6-3/8″)
		Panel Size (approx.)	188 mm $\times$ 117 mm $\times$ 10 mm (7-7/16″ $\times$ 4-5/8″ $\times$ 7/16″)
	Mass (approx.)		2.9 kg (6.4 lbs) (including trims/sleeve/brackets)

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Having TROUBLE with operation?
Please detach the monitor panel,
then attach it
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