

GPS NAVIGATION SYSTEM
SISTEMA DE NAVEGACIÓN GPS
SYSTÈME DE NAVIGATION GPS

ENGLISH

ESPAÑOL

FRANÇAIS

KW-NT500HDT / KW-NT300

HD Radio®
 This HD Radio receiver enables:

- PSD
- HD2/HD3
- Digital Sound
- iTunes® Tagging
- Artist Experience
- Digital Traffic
- Bookmark
- Channel Guide

Only for KW-NT500HDT
Sólo para KW-NT500HDT
Uniquement pour le KW-NT500HDT



TotalTraffic CONNECT

Total Traffic+ HD NETWORK

NewsService Journaline

Fraunhofer IIS

Only for KW-NT500HDT
Sólo para KW-NT500HDT
Uniquement pour le KW-NT500HDT



NUANCE

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. _____

LVT2277-001A
 [J]



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.

ENGLISH

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 VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	ATTENTION RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	AVISO RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	VARNING SYNLIIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLAS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	注意 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)	CAUTION VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG)
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FCC CAUTION

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual.

The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

FCC NOTE

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

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

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

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

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

Location : Top Panel

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

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]

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 réglementations 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 réglementations 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.

Cet appareil est conforme au cahier des charges CNR-310 d'Industrie Canada. Son emploi est soumis à la condition que l'appareil ne provoque pas de brouillage préjudiciable.

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.

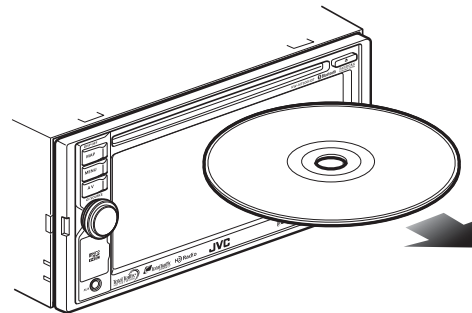
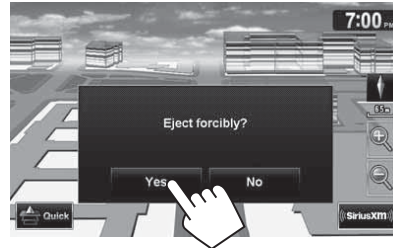
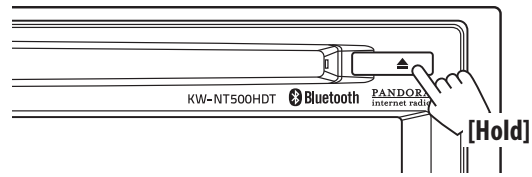
Temperature inside the car...

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, see page xx.

How to forcibly eject a disc



- Unlike the standard disc-eject function, when you forcibly eject a disc, the disc does not automatically load again after 15 seconds if it is not removed. Make sure you remove the disc so that it does not fall.

How to read this manual:

- Illustrations of KW-NT500HDT 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.



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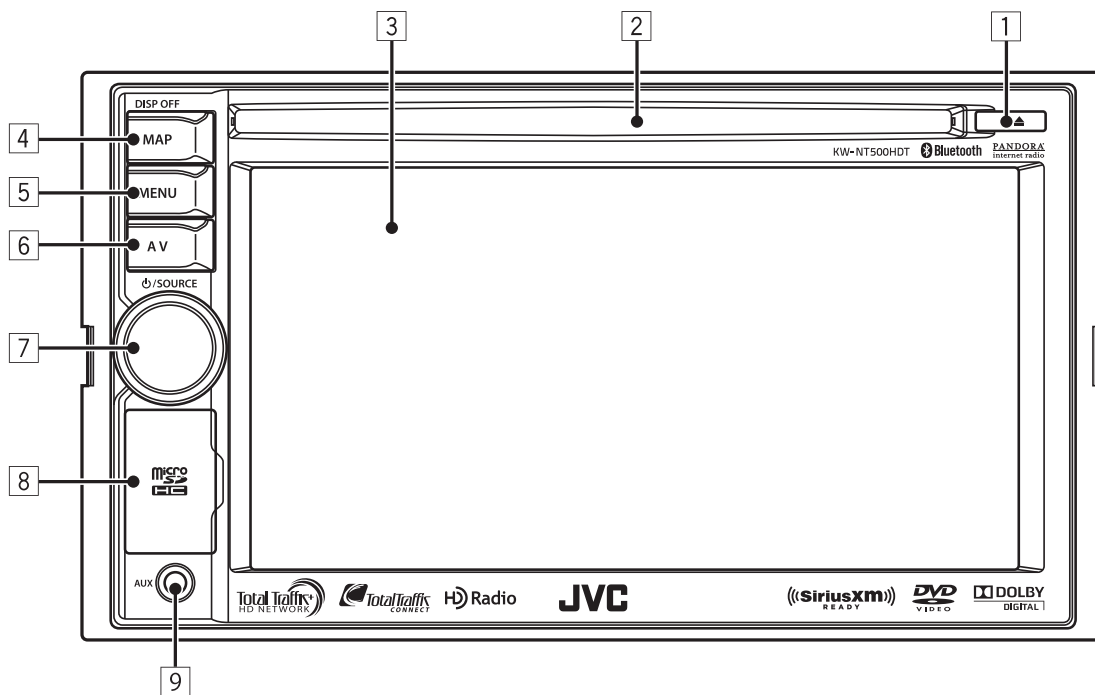





Introduction

ENGLISH

Parts identification



- | | |
|---|---|
| <p>1  (Eject) button/Security indicator</p> <ul style="list-style-type: none"> • Adjusts the angle of the front panel (☞ page xx), displays the disc or SD card insert and eject screen. (☞ page xx, xx) • Flashes when the unit is turned off if you have enabled the security indicator. <p>2 Disc loading slot</p> <p>3 Screen (touch panel)</p> <p>4 MAP button</p> <p>Displays the map for the current location. (☞ page xx)</p> <p>Turns off/on the screen page.[Hold] (☞ page xx)</p> <p>5 MENU button</p> <p>6 AV button</p> <p>Displays the screen for the current source. Displays the destination menu screen. (☞ page xx)</p> | <p>7 Volume knob</p> <p>Adjusts the audio volume.</p> <ul style="list-style-type: none"> • About the adjustable volume range, page • To adjust the guidance volume, page • Displays the source screen. (☞ page xx) • Turns off the AV function.[Hold]. (☞ page xx) <p>8 SD card slot</p> <p>9 AUX input terminal</p> |
|---|---|



Installation settings

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

1 Turn on the ignition switch.

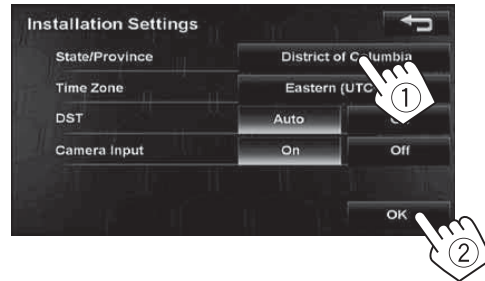
The power is turned on, and the startup screen is displayed for about 5 seconds.

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



- You can also select the system language through **<Settings>** - **<System>** - **<Region>** - **<Language>**. (🔗 page 75)

3 Set the installation settings (1), then press [OK] (2).



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.
Camera Input*	Select [On] when connecting the rear view camera to the CAMERA IN jack.

* You can also change these settings through **<Settings>** - **<System>**. (🔗 page 75)

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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.

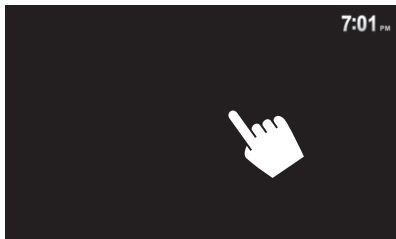


- The power is turned off when the ignition switch is turned off.

Turning off/on the screen

Press and hold [MAP] to turn the screen off.

Touch the screen to turn it on again.



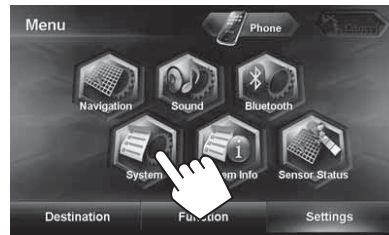
- You can erase the clock display while the screen is turned off. (<Clock on Video/Screen-Off>, ☞ page 74)

Setting the security password

You can set the startup security password as an antitheft measure.

1 Press [MENU] - <Settings>.

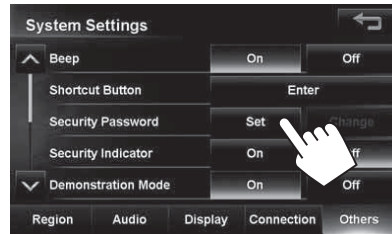
2



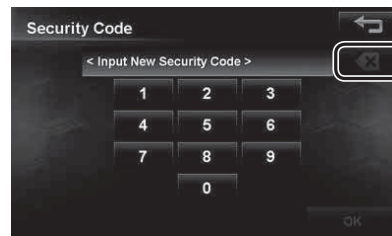
3



4



5 Enter a 4-8 digit security code, then press [OK].



Press: Deletes the last character
Hold: Deletes all characters

6 Enter the same security code, then press [OK].



- After setting the security password, entering the security code is necessary each time you turn on the unit.

Changing/clearing the security password

Repeat steps 1 to 3 on page 12.

1



2 Enter the current security code, then press [OK].



If you want to clear the security code, stop here. The security code has been cleared. If you want to change the security code, go to the next step.

3 Enter the new 4-8 digit security code, then press [OK]



4 Enter the same security code, then press [OK].

Basic operations

Operations on the touch panel

When items on the menu are not available



Non-available items will be shaded

Scrolling the track/song information

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

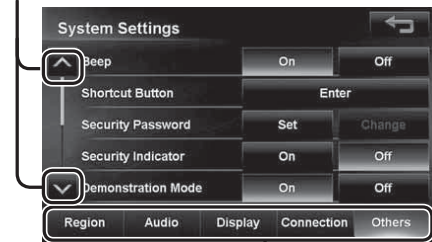


- Note that when driving, the album name and artist name are not displayed, and the song name does not scroll.

To change the page of menu/list

Menu

Changes the page

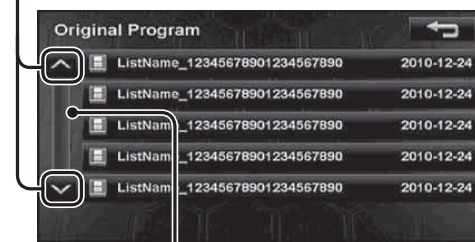


Changes the tab

List

Ex.: Folder/track list

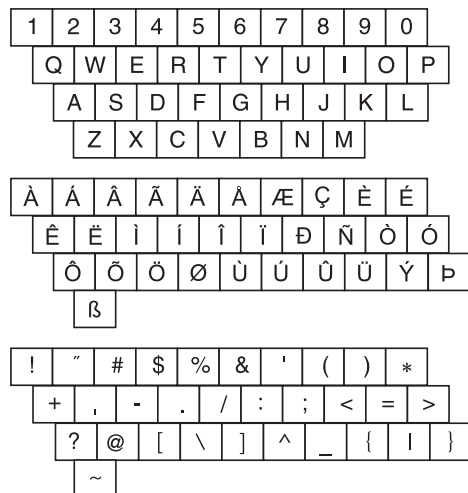
Changes the page



Skips the list up or down



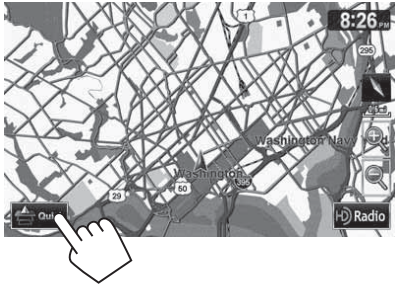
Characters you can use



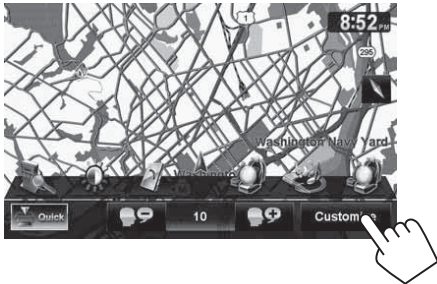
Quick menu

You can assign your frequently used features to the quick menu. It is activated from the current position screen.

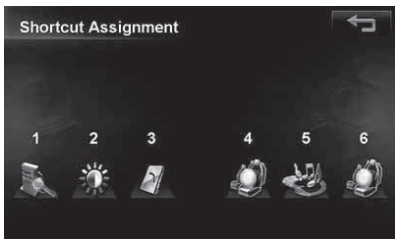
1



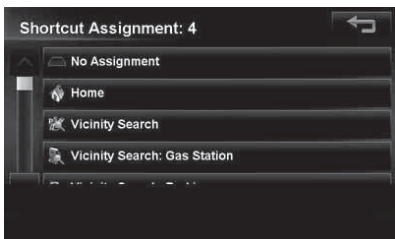
2



3 Touch the button you want to configure.



4 Touch the feature you want to assign to the button.



- The selected feature is now available in the quick menu.

Extending/shortening the auto antenna

When <Antenna Remote> is set to <Auto>, [Antenna Remote Icon] is not displayed. (☞ page xx)

1 Press **SRC**.

2 Press [Antenna Remote Icon] or [Antenna Remote Icon].

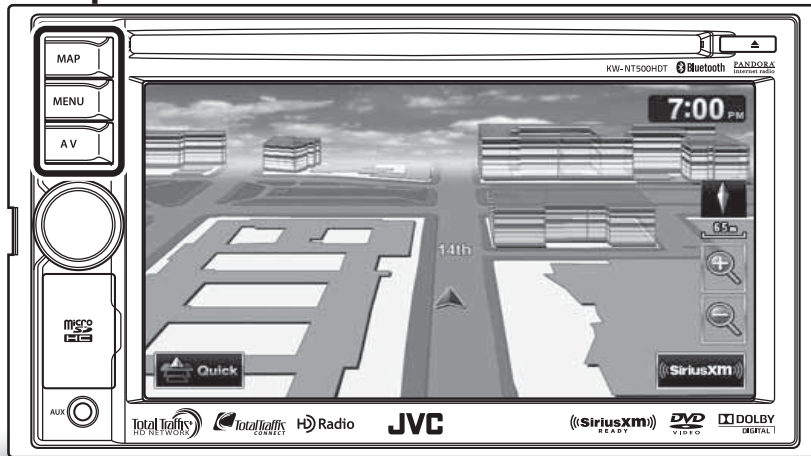


Press [Antenna Remote Icon] to extend the antenna, and press [Antenna Remote Icon] to shorten the antenna.

Switching screens

Navigation mode

Map screen



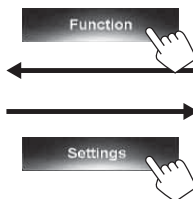
Destination Menu

Use this screen to search for a destination using one of the available search methods.



Function Menu

Use this screen to get information about your destination and the travel route.



Settings Menu

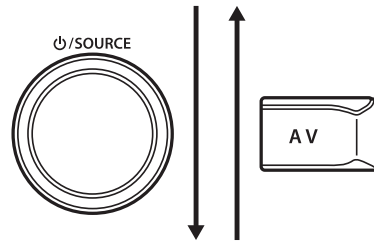
Use this screen to change the detailed settings and get information about the navigation system.



AV mode

■ AV screen

Displays the screen for the current AV source.



■ Source selection screen

Use this screen to select an AV source.



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

Erases the AV control bar

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



Navigation System

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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.

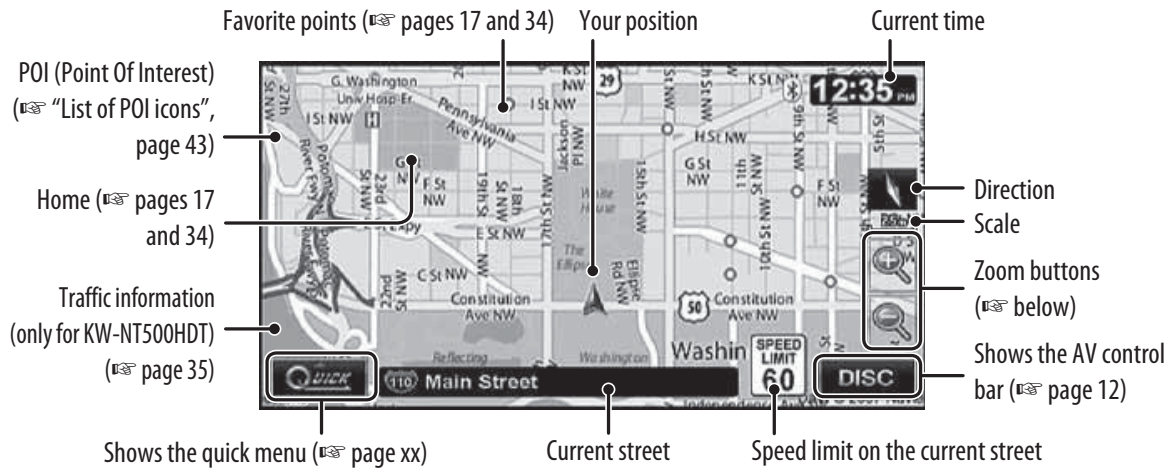
Information/icons on the map

- 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.



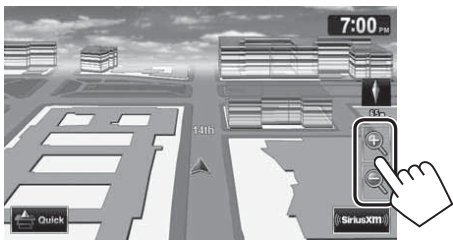
Basic operations

About the current position screen



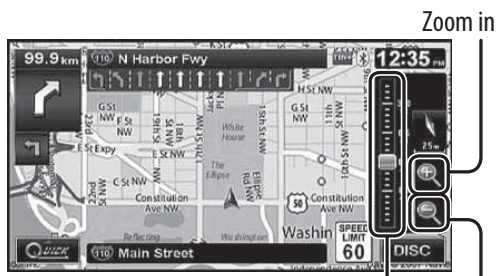
To change the map scale

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)

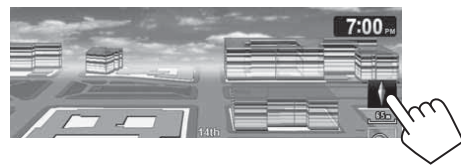
2



You can also zoom in and out by sliding the slider.

- 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.

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".

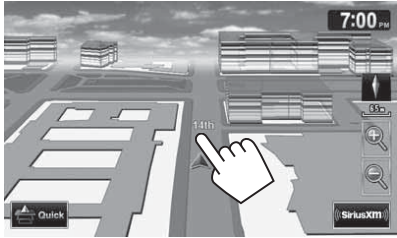
- The icon shows the direction of north.

- You can also change the map view through **<Settings>-<Navigation>-<Map>-<View Mode>**. (page 41)

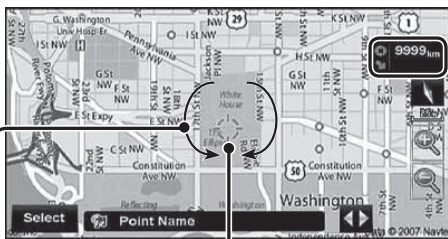


Basic operations

To scroll the map



The position you touched is centered on the map.



(only for 3D map) Touch the arrow to rotate the map 360 degrees

Direction and distance from your current position

(cursor) Target position of operation

- Touch and hold the map to keep scrolling the map.

To display your current position

Press **MAP**.

To display/hide POI icons on the map

1 On <Navigation Settings> menu:



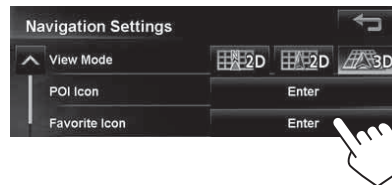
2 Select categories or [▶] on the right of the POI that you want to be displayed on the map.



- If you press a category, all items in that category are highlighted and selected. If you want to select items individually, press [▶] and select items to be displayed on the map. If you press highlighted buttons, they become unhighlighted and the selection is cancelled.
- If you press [Off] in step 2, all POI icons are hidden.

To display/hide Favorite icons on the map

1 On <Navigation Settings> menu:



2 Select categories of Favorite Icons that you want to be displayed on the map.



- If you press a category, that category is highlighted and selected. If you press highlighted buttons, they become unhighlighted and the selection is cancelled.
- If you press [Off] in step 2, all Favorite Icons are hidden.

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 xx to xx.

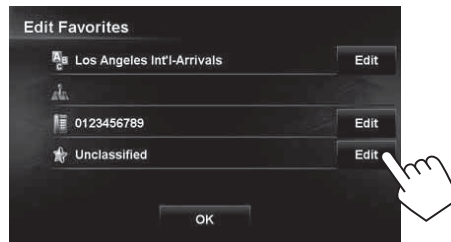
2



3



4



5



- To edit the information about the registered points, step 5 on page 39.

Notice:

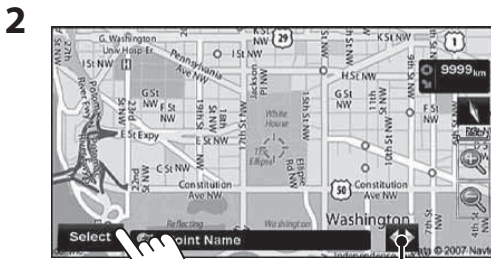
If you have already registered a destination as your home, a confirmation message is displayed when you select Select [Yes] to save the new destination as your home. The previous home destination is moved to the unclassified category.



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)



If there are several POIs on the selected position, press [◀▶] to switch to the next POI.

3 The search result is displayed.



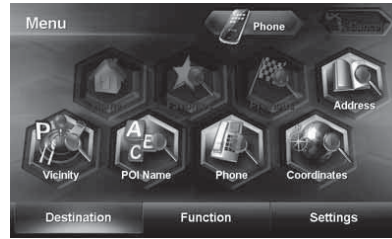
Guidance starts.

- To set the search result as the destination and start guidance, ☞ page xx.

Setting a destination using the <Destination> menu

1 Press [MENU].

2 Select a method to search for a destination.



Home*	Goes to your home. <ul style="list-style-type: none"> • To register your home, ☞ page 17. • To start guidance, ☞ page xx.
Favorites*	Searches from your favorite points. <ul style="list-style-type: none"> • To register your favorite points, ☞ page 17. • To edit the information about the favorite points, ☞ page 34.
Previous*	Searches from the history of previous destinations and via points. <ul style="list-style-type: none"> • You can select a place from the last 50 destinations and via points. • To delete the history, ☞ page 39.
Address	Searches by an address. (☞ page 21)
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)
POI Name	Searches from the database of POI. (☞ page 23)
Phone	Searches by a telephone number. (☞ page 22)
Coordinates	Searches by coordinates of the destination. (☞ page 25)

* 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)

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



Hold: Adds "+1" or "+" Number of matches

- When there are more than 1000 matches, "1000+" is displayed and only first 1000 matches are displayed.

Selects the country or state (or state) and the national flag are displayed.

Press: Deletes the last character
Hold: Deletes all characters



Enters a space
Displays the list of matches ("List of matches" on the right)

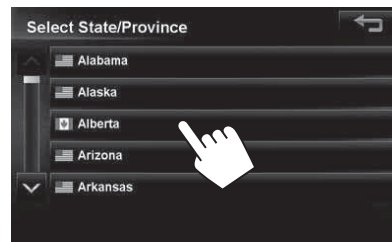
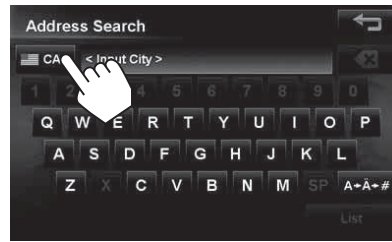
Displays other keyboards

- For available characters, see 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.

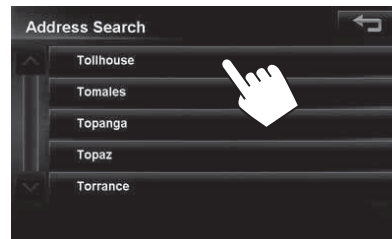
State/Province selecting screen

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.

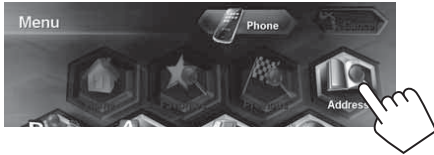


- When the number of matches is 5 or less, the list of matches automatically appears.

Searching for a place

By address <Address>

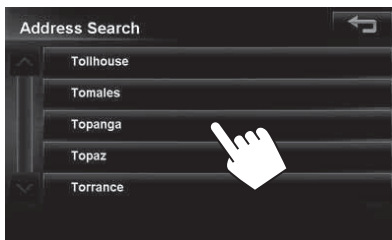
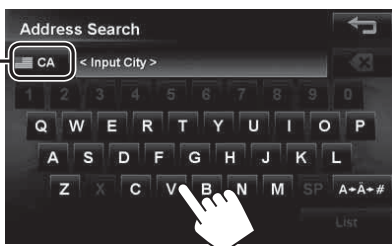
1



2 Enter the city name, then select from the list.

(☞ page 20)

Changes State or Province



3 Enter the street name, then select from the list.

(☞ page 20)

Selects the center of the city



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 Road] or [Intersection].



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

Specifies the crossing street to select intersection on the street



Selects the center of the street

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



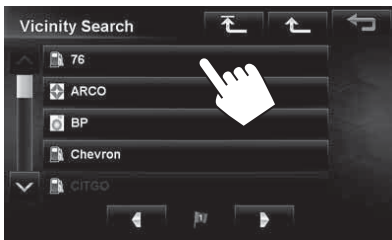
2 Select a category for the POI.



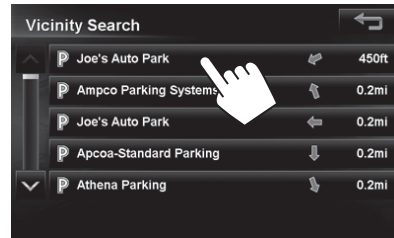
Switches locations for search (destination → via point1 → ... → present location)

Switches locations for search (present location → via point1 → ... → destination)

3 Select a sub-category for the POI.



4 Select a POI from the list.



- The System displays up to 50 POIs.

The search result is displayed.

- To start guidance, see page xx.

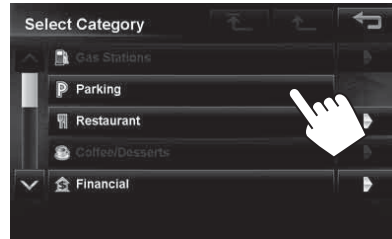
Searching for a place

From the list of POI <POI Name>

1



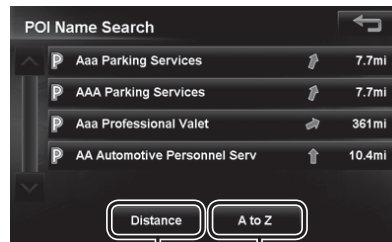
To specify the category and sub-category



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

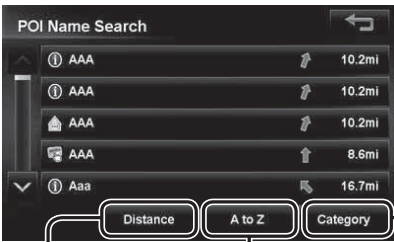


Changes State or Province



Displays POI in alphabetical order

Displays POI based on their distance



Displays POI in alphabetical order

Displays POI based on their distance

Press to select a category of POI

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.

- To start guidance, ☞ page xx.

By telephone number

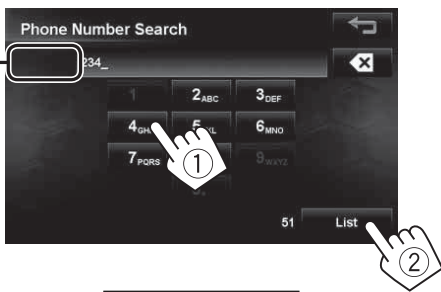
<Phone>

1



2 Enter the telephone number (1), then select from the list (2). (☞ page 20)

Changes country



The search result is displayed.
• To start guidance, ☞ page xx.

By coordinates

<Coordinates>

1



2 Enter the latitude and the longitude.



The search result is displayed.
• To start guidance, ☞ page xx.

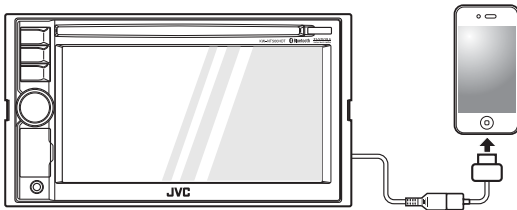
Searching for a place

By NaviCon <iPhone App>

When you connect your iPhone with the "NaviCon" application installed to the system, you can manipulate the map, search and set destinations on the system using the iPhone screen.

Sending registered information to the system and setting as destinations

- 1 Search for "NaviCon" in the Apple iTunes App Store to find and install the latest version of the NaviCon application to your device.
- 2 Connect your iPhone to the system.



Be sure your iPhone is connected to the Internet.

- 3 Activate "NaviCon" on the iPhone.
- 4 Transfer registered information from the iPhone to the system.
For information about transfer operations, refer to the NaviCon instructions.

Registered points are displayed on the navigation screen.



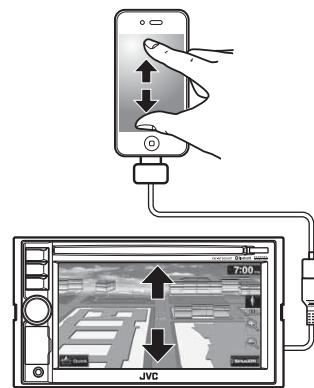
- To start guidance, page xx.

Manipulate the map on the system from "NaviCon"

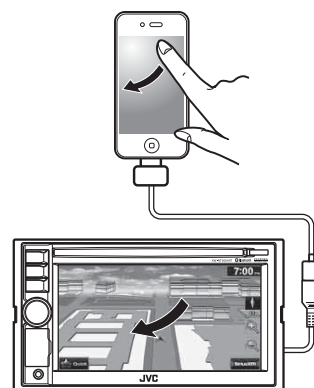
When you connect your iPhone to the system, the map on the iPhone screen also appears on the navigation screen.

When you scroll the map on NaviCon, the map on the navigation screen also scrolls in synchronization. Zooming in on the map is also shown on the navigation screen.

Zooming in/out



Scrolling





How you are guided

ENGLISH

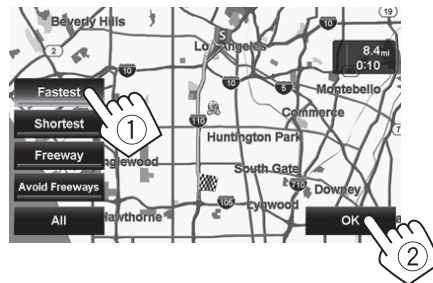
Starting guidance to the destination or via point

- 1 Select a destination or via point. (pages 18 to 27)
- 2 To set as destination
- 3. Select a route (1), then press [OK](2).



To set as via point

You can add the via points only after selecting your destination.



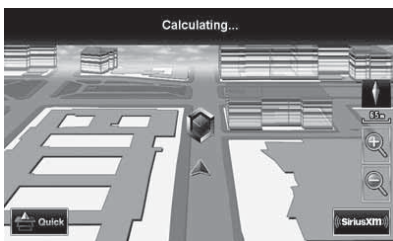
The estimated time and distance to the destination are displayed.

If the route includes toll roads, the toll the first and last interchange names are also displayed.

- [Fastest]: The recommended route.
- [Shortest]: The shortest route.
- [Freeway]: The recommended route when using freeways.
- [Avoid Freeway]: The recommended route when not using freeways.
- [All]: All routes.

To cancel guidance, page 29.

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





How you are guided

ENGLISH

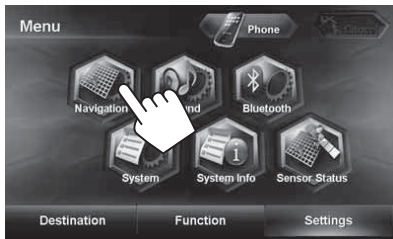
Changing route options

1 Press **[MENU]**.

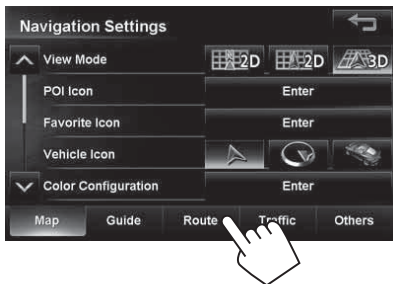
2



3



4



5 Set options.



Priority	Select the priority for route calculation ([Fastest]: fastest route/[Shortest]: shortest route/[Freeway]:route using freeway/[Avoid Freeway]: route avoiding freeway).
-----------------	--

Toll Road	Select whether to use ([Use]) or avoid ([Avoid]) these types of options to go to the destination.
Ferry	

6 Press **[↩]**. The selected options become effective and you will be returned to the previous screen.



Canceling guidance

1

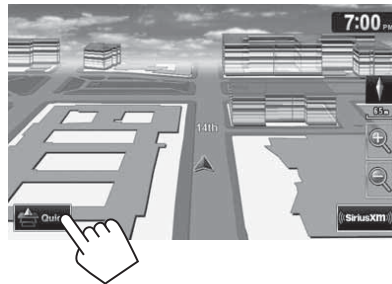


2

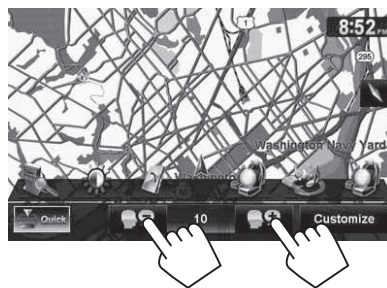


Adjusting the volume of the voice guidance

1



2



- You can also adjust the volume through <Settings> - <Navigation> - <Guide> - <Guidance Volume>. (☞ page xx)



How you are guided

ENGLISH

About route guidance screen

Direction, distance, and estimated time of arrival (ETA) at the destination (📍) or a via point (📍)

- Press to switch the information between the final destination and the nearest via point.

Distance to the next turn

- Press to listen to the last voice guidance again.

Next street

Next turn to make

The second turn to make (if any)



Route to take

Shows AV control bar

Lanes to take

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

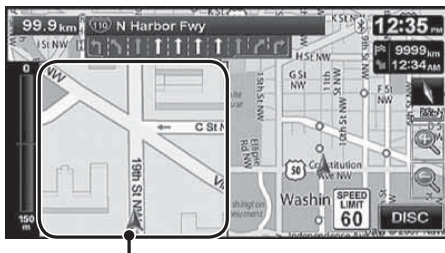
Current street

Speed limit on the current street

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).



Magnified map

- You can select whether or not to display the magnified map through (<Settings> - <Navigation> - <Guide> - <Magnified View>). (📖 page 41)

To remove the magnified map, touch the map part on the right side of the screen.

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.



Getting information on your route and places

To check the entire route

1 Press **MENU** - <Function>.

2



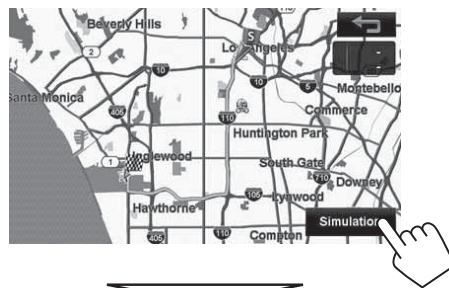
To confirm how your trip will go

<Simulation>



To check the information on the destination and via points

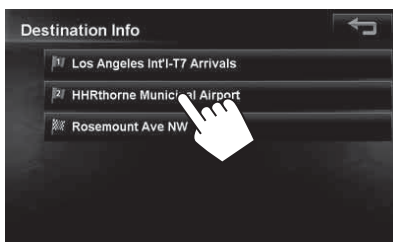
1



Drive simulation starts.



2 Select a desired point to check its detailed information.



Changes the speed of the drive simulation
(x1/x2/x3)

Cancels the simulation and resume guidance

Arranging your route

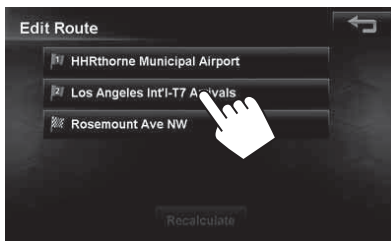
Changing the sequence of the destination/via points

- 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

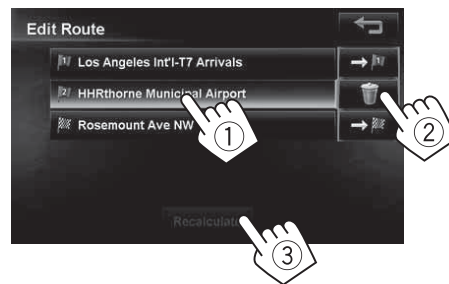


2



To delete a via point

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



3 Press the desired order of the selected point (1), then press [Recalculate] (2).

To optimize the sequence

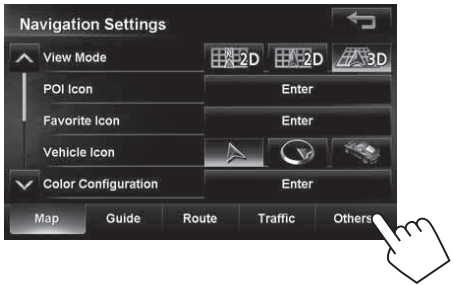


The System starts calculating the new route, and guidance starts.

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



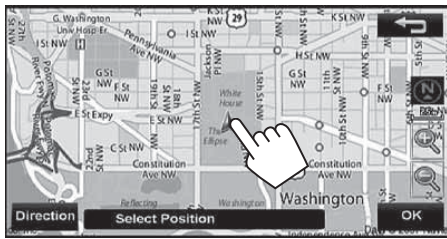
2



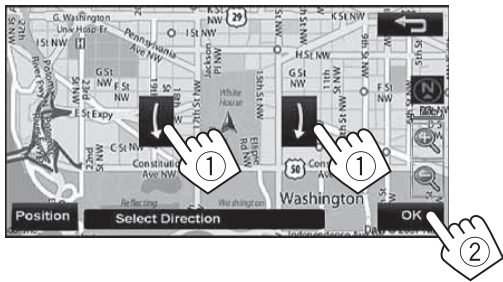
3 Move the cursor to the position where you want to set as current position.

To adjust the direction of the vehicle, press [Direction].

- If you do not want to adjust the direction, press [OK].



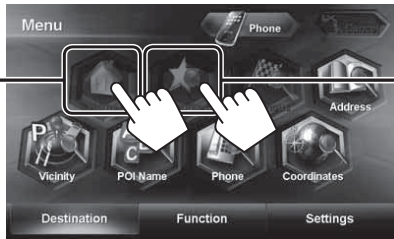
4 Adjust the direction.



Editing registration of home/favorite points

1 Select a registered point you want to edit.

Selects your home

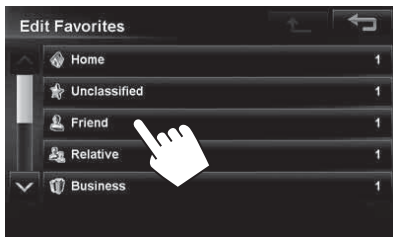


Displays the favorite point list and select one to edit on the list

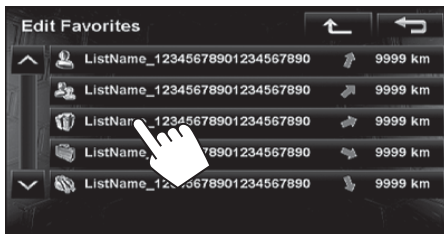
2



3 Select the category for the favorite point to edit.

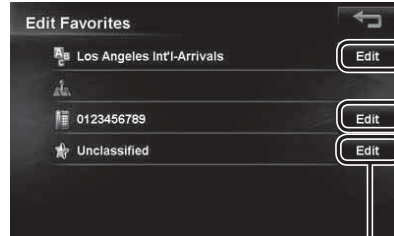


4 Select one to edit.



5 Edit the information.

A Displays the name editing screen

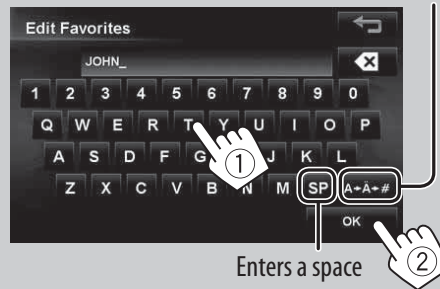


C Displays the icon selection screen

B Displays the phone number editing screen

A To edit the name

- You can use up to 30 characters.
- Displays other keyboards
 - For available characters, see page 11.



Enters a space

B To edit the phone number

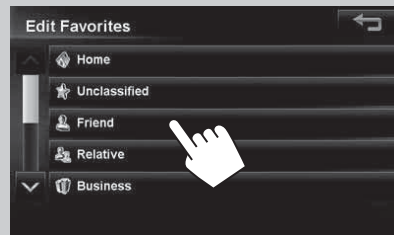


Press: Deletes the last character

Hold: Deletes all characters

C To change the icon

Select a new icon for the favorite point.



A confirmation message appears when you select the Home icon.

Using information service (Only for KW-NT500HDT)

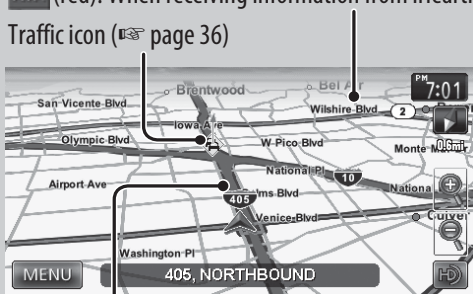
This function is available on KW-NT500HDT only, not equipped with on KW-NT300.

Using the traffic information service (Total Traffic HD NETWORK 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

TTN+ (green): When receiving information from HD radio
TTN+ (red): When receiving information from iHeartRadio
 Traffic icon (☞ page 36)



Congestion

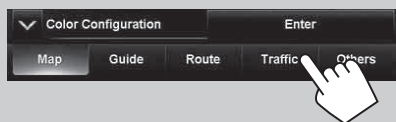
- Traffic icons are displayed on the map when its scale is between 80 ft (25 m) and 1.5 mi (2.5 km) with <Traffic Icon> setting activated (☞ page 41).

How traffic information is reflected in navigation

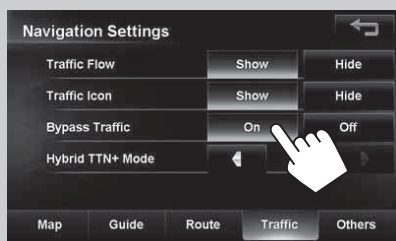
The traffic information is reflected in navigation differently according to <Traffic> setting.

1 Press **MENU** - <Settings> - <Navigation>.

2



3



Traffic Flow	Show	Congestion lines appear on the map when you approach traffic congestion.
	Hide	Congestion lines do not appear on the map when you approach traffic congestion.
Traffic Icon	Show	Traffic icons are displayed on the map.
	Hide	Traffic icons are not displayed on the map.
Bypass Traffic	On	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.
Hybrid TTN+ Mode	All	The System receives news and real-time traffic information from the iHeart Link app, when you are out of HD radio coverage.
	News	The System receives only news information.
	Traffic	The System receives only traffic information.
	Off	No information is received from iHeart Link app.

Using information service (Only for KW-NT500HDT)

This function is available on KW-NT500HDT only, not equipped with on KW-NT300.

Checking the traffic information

From <Traffic List>



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.

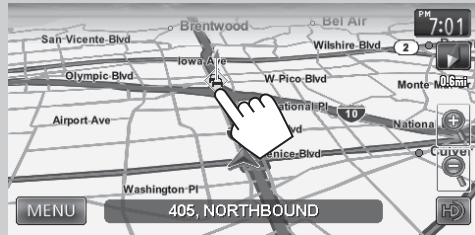
- [All]: Lists all the information.
- [On Route]: Lists the information on your route.

Details of the selected alert are displayed.

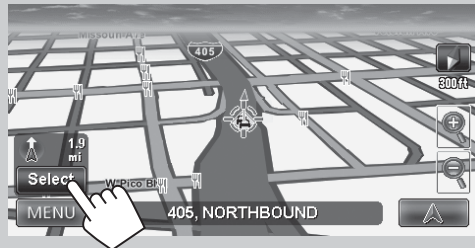


On the map

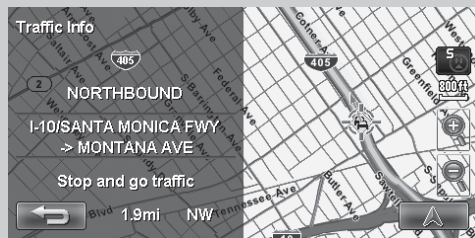
1 Touch the traffic icon.



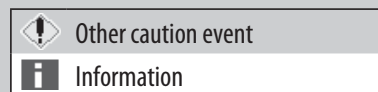
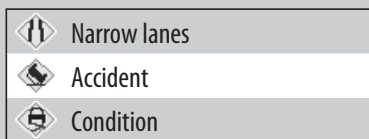
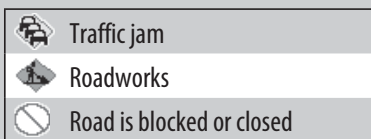
2



- 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



This function is available on KW-NT500HDT only, not equipped with on KW-NT300.

Using the area information service (Total Traffic HD NETWORK 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.

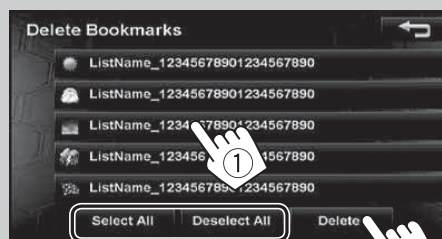
To delete the item from the bookmark list

1



2 Select items to delete (1), then delete them (2).

The selected items are highlighted.



Selects/deselects all items

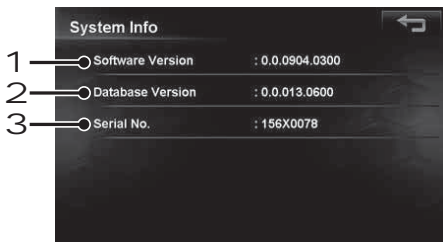




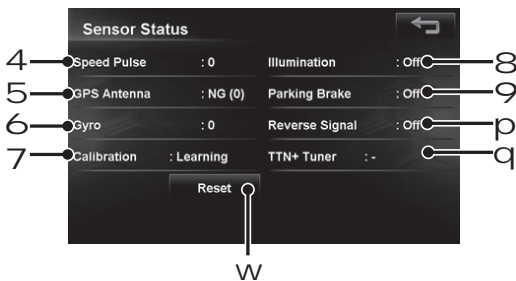
Checking the information of the navigation system

ENGLISH

System Info



Sensor Status



- 1 Version of the software
- 2 Version of the map database
- 3 Serial number
- 4 Speed pulse rate
- 5 GPS antenna connection status
 - <OK>: Receiving GPS signals (the figure shows the number of GPS satellites being received).
 - <NG>: Not receiving GPS signals.
- 6 Status of the gyroscope
- 7 Status of calibration*1 *2
 - <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.
- 8 Connection status of the illumination control lead
 - <On>: The illumination signal is detected.
- 9 Connection status of the parking brake lead
 - <On>: The parking brake is engaged.
- p 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>).
- q Information service being received (Traffic or Area information; only for KW-NT500HDT)
- w Resets the calibration data.

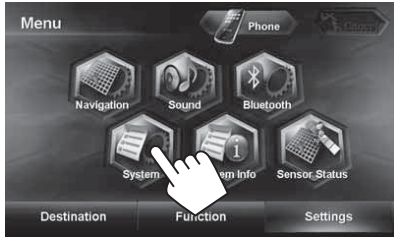
*1 The calibration does not function without the connection of GPS antenna and the speed signal lead. For the connection, see Installation/Connection Manual (separate volume).

*2 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.

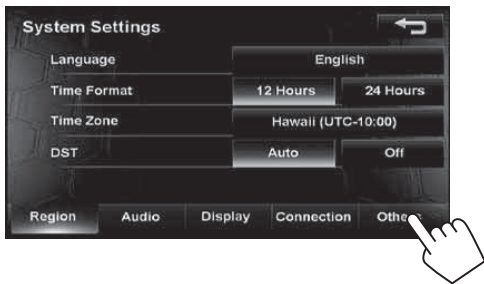
Initializing navigation settings

The initial settings of the navigation menu can be restored.

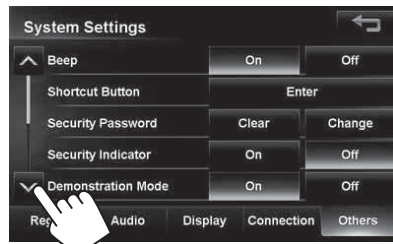
1



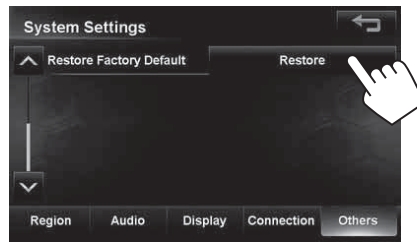
2



3



4



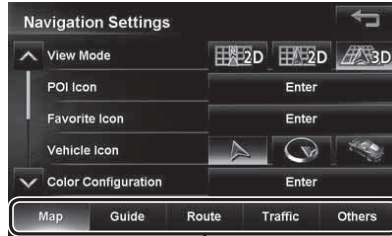
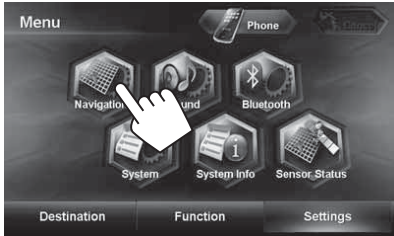
A confirmation message appears.

ENGLISH



Navigation menu items

ENGLISH



Switches the category by pressing the corresponding tab

Menu items	Selectable settings	Initial: <u>Underlined</u>
View Mode	(☞ page xx)	
POI Icon	<u>Selected (highlighted)</u> , <u>Deselected (not highlighted)</u> (☞ page xx)	
Favorite Icon	Select whether to show or hide the favorite icon on the map. Press [Enter] to display the selection screen, and then select the group of favorite icons to be displayed. Each time you press an item, the item switches between <u>selected (highlighted)</u> and <u>deselected (not highlighted)</u> .	
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: <ul style="list-style-type: none"> • Night Map Mode: Select from 3 colors. <ul style="list-style-type: none"> Auto: Switches to the night screen when you turn on the headlights. • The illumination control lead connection must be completed. (☞ Installation/Connection Manual) On: Activates night screen. Off: Deactivates night screen. • Day Route Color/Night Route Color: Select from 3 colors. 	
Current Street Name	Select whether to show or hide the current street name on the map. <u>Show</u> , <u>Hide</u> (☞ page xx)	
Speed Limit Sign	Select whether to show or hide the speed limit icon on the map. <u>Show</u> , <u>Hide</u> (☞ page xx)	
Drive Tracks	Select whether to show or hide the tracks you have driven. <u>Show</u> , <u>Hide</u>	
Delete Drive Tracks	You can delete the drive tracks memorized by the system. Press [Delete], then a confirmation message appears.	

* When adjusting these items, test tone is produced.



Navigation menu items

ENGLISH

	Menu items	Selectable settings	Initial: <u>Underlined</u>
Guide	Guidance Volume*	Adjust the volume of the voice guidance. (The adjustment does not affect the audio volume.) 0 to 20; Initial <u>10</u>	
	Attention Tone*	Select whether to use the attention tone, which is played before the voice guidance. <u>On</u>, Off	
	Voice Guide	Select whether to use the voice guidance. <u>On</u>, Off	
	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 xx) Off, 3mph (5km/h), 6mph (10km/h), <u>10mph (15 km/h)</u>, 15mph (25km/h), 20mph (35km/h)	
	Traffic Lane	Select whether to display the traffic lanes on the map. <u>On</u>, Off	
	3D Junction View	Select whether to display 3D junction view on the map. <u>On</u>, Off	
	Magnified View	<u>On</u> : A magnified map is displayed when approaching the next turn. Off : No magnified map is displayed.	
Route	Priority	<u>Fastest</u>, Shortest, Freeway, Avoid Freeway (☞ page xx)	
	Toll Road	<u>Use</u>, Avoid (☞ page xx)	
	Ferry	<u>Use</u>, Avoid (☞ page xx)	
Traffic (Only for KW-NT500HDT)	Traffic Flow	Select whether to show or hide the congestion line on the map. <u>On</u>, Off	
	Traffic Icon	Select whether to show or hide the traffic icon on the map. <u>Show</u>, Hide (☞ page xx)	
	Bypass Traffic	<u>On</u>, Off (☞ page xx)	
	Hybrid TTN+ Mode	<u>All</u>, News, Traffic, Off (☞ page xx)	
Others	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 xx) km, <u>mile</u>	
	Vehicle Position	☞ page xx	

* When adjusting these items, test tone is produced.

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.

List of POI icons

Gas Station	
Parking	
Restaurant	
Coffee/Desserts	
Coffee/Pastries	
Desserts/Smoothie	
Finance	
ATM	
Bank	
Service	
Shopping	
Beauty	
Book Store	
Convenience Store	
Department Store	
Electronics	
Fashion/Apparel	
Furniture	
Grocery Store	
Home Improvement	
Liquor/Wine/Beer	
Music/Video	
Pharmacy	
Sporting Goods Store	
Service	
Barber Shop	
Beauty Salon	
Photo	
Rental	

Entertainment	
Casino	
Museum	
Night Club/Bar	
Theater	
Others	
Recreation	
Bowling Center	
Golf Course	
Outdoor	
Ski Resort	
Theme Park/Exercise	
Zoo	
Others	
Hotel/Accommodation	
Travel	
Agency/Info	
Air Transportation	
Airport	
City Finder	
Ground Transportation	
Others	
Medical	
Animal Health	
Emergency	
Hospital	
Lab/Facility	
Physician	

Community	
Child Service	
Education	
Government/Administration	
Health/Safety	
Insurance	
Legal Service	
Multimedia	
Police/Fire	
Post Office	
Religious	
Automotive	
Auto Parts/Service	
Dealer/Service	
Dealer/Service	
Used Car Dealer	
Rental	
Others	



AV Operations

ENGLISH

Common operations on source screen

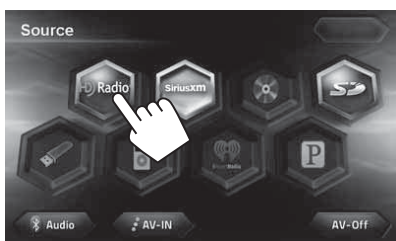
<Source> screen

Selects the source (☞ below)



Turns off the AV source (☞ below)

Selecting the playback source

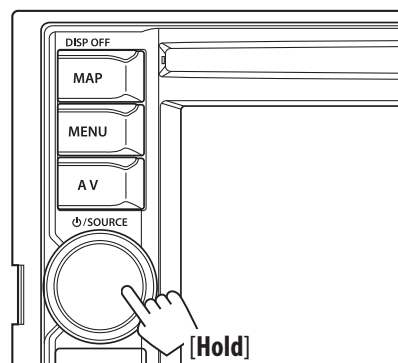


- You can erase the clock display while a video source is played back. (<Clock on Video/Screen-Off>, ☞ page 74)

Turning off the AV source



or



AV source is turned off.

- To activate the AV function, press the volume knob, then select a playback source.

HD Radio (For KW-NT500HDT)	Switches to the HD Radio broadcast. (☞ pages 45 to 49)
Tuner (For KW-NT300)	Switches to the radio broadcast. (☞ pages xx to xx)
SiriusXM	Switches to the SiriusXM radio broadcast. (☞ pages 66 to 68)
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)
iHeartRadio	Switches to the iHeartRadio broadcast. (☞ pages xx to xx)
Pandora	Switches to the Pandora® internet radio broadcast. (☞ pages xx to xx)
BT Audio	Plays a Bluetooth audio player. (☞ page 85)
AV-IN	Switches to an external component connected to VIDEO IN/LINE IN jacks on the rear panel. (☞ page 69)





Listening to the HD Radio™ broadcast (For KW-NT500HDT)

You can tune in to both conventional and HD Radio broadcasts.

ENGLISH

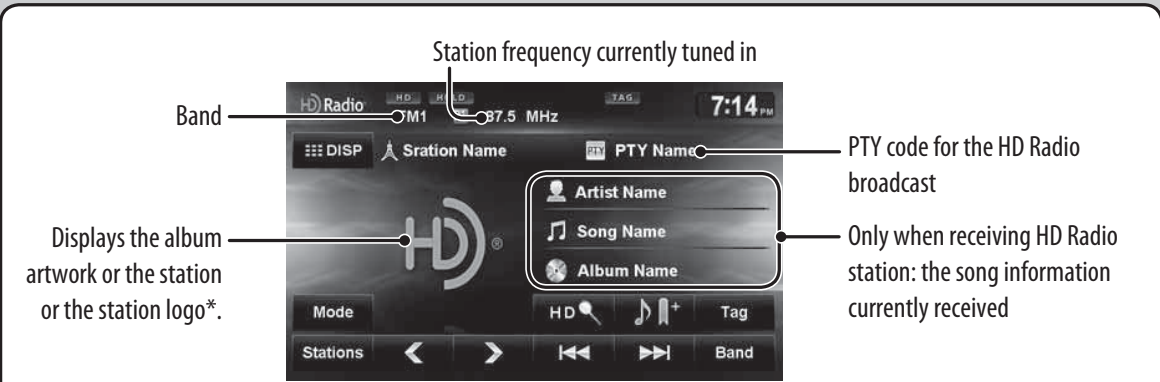
About HD Radio Technology

- Digital Sound**) • Digital, CD-quality sound. HD Radio Technology enables local radio stations to broadcast a clean digital signal. AM sounds like today's FM and FM sounds like a CD.
- PSD**) • Program Service Data: Contributes to the superior user experience of HD Radio Technology. Presents song name, artist, station IDs, HD2/HD3 Channel Guide, and other relevant data streams.
- HD2/HD3**) • Adjacent to traditional main stations are extra local FM channels. These HD2/HD3 Channels provide new, original music as well as deep cuts into traditional genre.
- iTunes® Tagging**) • iTunes® Tagging provides you the opportunity to discover a wide range of content and the means to "tag" that content for later review and purchase from the iTunes® Store.
- Artist Experience**) • Visual information related to content being played on your HD Radio receiver, such as Album Art, historical photographs, still art from live broadcasts, among other related content.
- Digital Traffic**) • With Digital Traffic, real-time traffic is delivered dramatically faster and with more useful data than other available sources.
- Bookmark**) • With the Bookmark feature, you can save in the memory of your HD Radio receiver information that you have heard and want to be sure to remember. Your JVC receiver will present this information to you via a listing on your radio display. Bookmark also presents QR Codes from advertisers on your radio display. Using a smartphone QR Code app, you can directly link to that advertiser's website or other related information stored in the QR Code image.
- Channel Guide**) • Your JVC receiver Channel Guide provides listings of HD Radio stations (including HD2/HD3 Channels) in your local market. On radios with touch screens, you may tune directly to HD Radio channels simply by touching the desired program on the display.

- Many HD Radio stations offer more than one channel of programming. This service is called multicasting.
- To find HD Radio stations in your area, visit <<http://www.hdradio.com/>>.



Listening to the HD Radio™ broadcast (For KW-NT500HDT)



- * 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

[<<] [>>] • 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

[Stations] Displays the Station List.

[DISP] Switches between preset list screen and tuner source screen.

[HD] Searches for HD Radio stations only.



[Tag] Bookmarks the current song. You can display a list of bookmarks on the screen of this unit. (page xx)

[Mode] pages 46 to 48



Listening to the HD Radio™ broadcast (For KW-NT500HDT)

ENGLISH

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	Switches between digital and analog audio automatically. <ul style="list-style-type: none"> • In the case when the radio station forces the reception mode to digital, the HOLD indicator flashes.
Digital	Tunes to digital audio or analog audio only.
Analog	Tunes to digital audio or analog audio only. <ul style="list-style-type: none"> • HOLD indicator lights.

- The setting automatically returns to **[Auto]** when you tune into 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 [**◀◀**] or [**▶▶**].

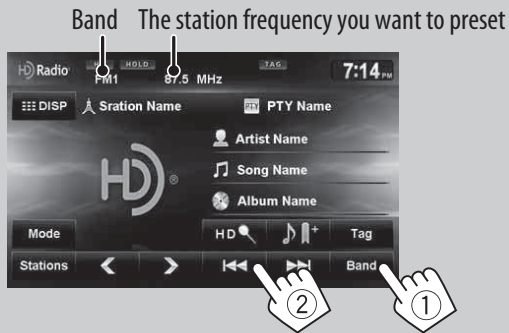
- During SSM search, all stations including conventional stations are searched and stored for the selected band.



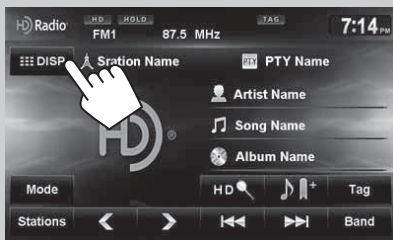
Listening to the HD Radio™ broadcast (For KW-NT500HDT)

Manual presetting

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



- 2 Display the preset list.



- 3 Select a preset number.



Selecting a preset station

- 1 Display the preset list.



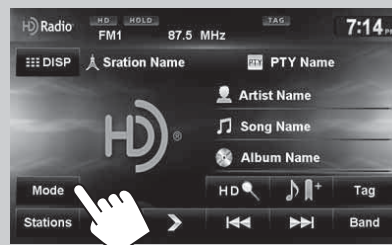
- 2



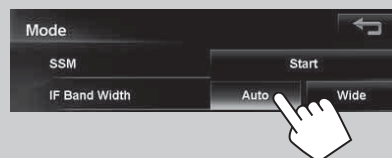
Also changes preset stations

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.



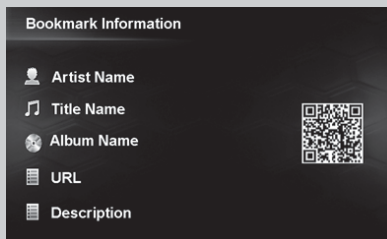
Listening to the HD Radio™ broadcast (For KW-NT500HDT)

ENGLISH

Bookmarking the song

You can bookmark the current song.

1

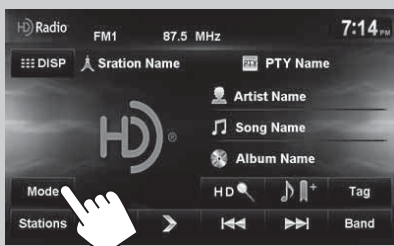


- If you have your device read the QR code, the bookmark information will be transferred to the device.
- When the bookmark information is long and not fully displayed, touch the icon to scroll and display the rest.

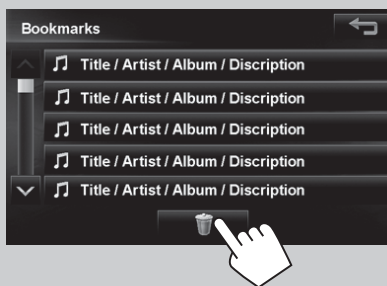
Displaying the list of bookmarked songs

You can bookmark the current song.

1



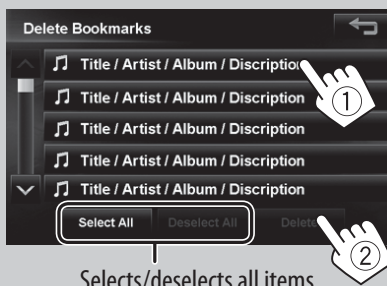
1



2

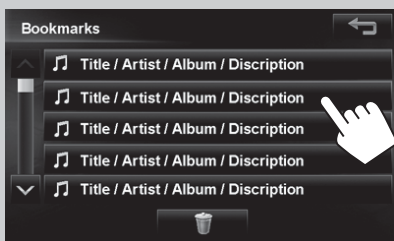


2 Select the items to delete (1), then delete them (2).



Selects/deselects all items.

3 Press the bookmark you want to view.



When you press an item, it is marked with "✓". When you press again, the selection is canceled. When you press **[Delete]**, a confirmation message is displayed, and then the selected bookmarks are deleted.



Listening to the HD Radio™ broadcast (For KW-NT500HDT)

Tagging/purchasing your favorite songs from iTunes Store

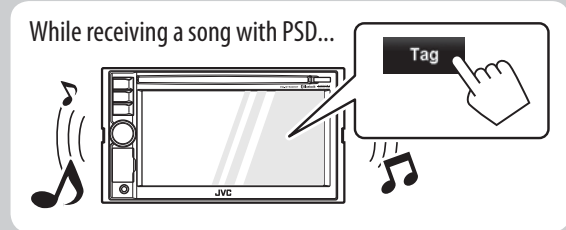
Some HD Radio broadcasts provide PSD (Program Service Data) for a song. You can tag the song and store its PSD while listening to the song. By using the tagging function, you can easily purchase the songs from iTunes Store.

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 4S
 - iPhone 4
 - iPhone 3GS
 - iPhone 3G
 - iPhone

Step 1: Tagging the song



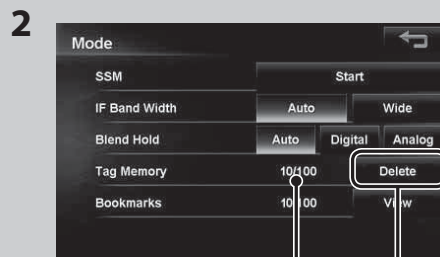
Lights up while receiving a song with PSD



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



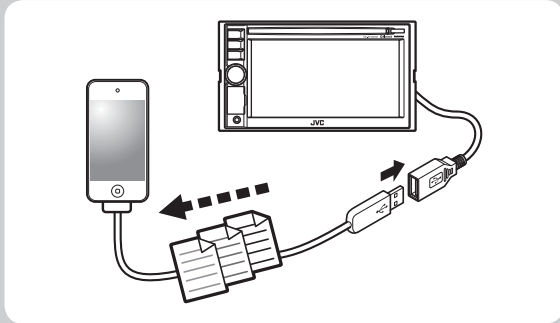
The number of stored PSDs/max storage

Deletes all PSDs from the unit



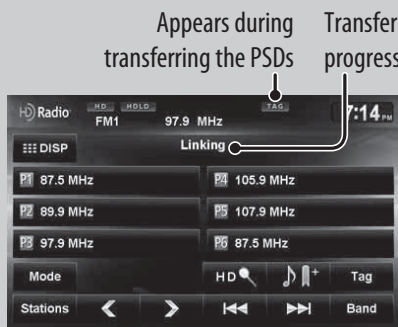
Listening to the HD Radio™ broadcast (For KW-NT500HDT)

Step 2: Transferring the tagged PSD to your iPod/iPhone



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

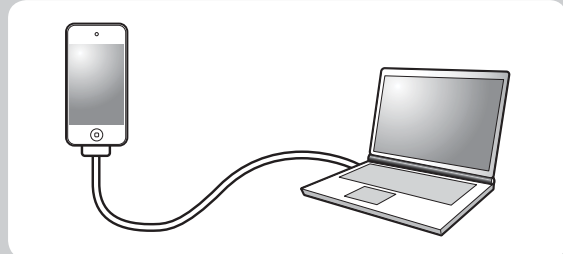
The source is changed to "iPod", and the tagged PSDs are transferred automatically to your iPod/iPhone.



Appears during transferring the PSDs
Transferring 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.



Listening to the radio (For KW-NT300)

Storing stations in memory

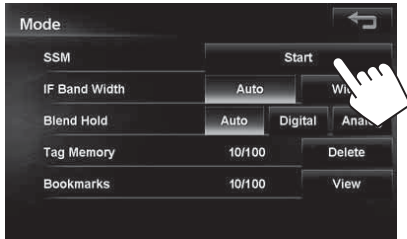
You can preset six channels for each band.

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 [◀◀] or [▶▶].

- 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)



2 Select a preset number.



Selecting a preset station

1 Display the preset list.



2



Also changes preset stations

Reducing the interference

1



2



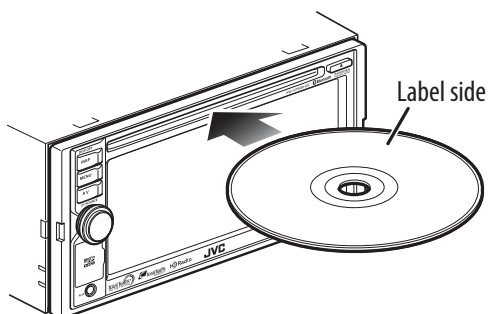
Auto	Increases the tuner selectivity to reduce interference noises between adjacent stations. (Stereo effect may be lost.)
Wide	Subject to the interference from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.



Disc operations

~ Insert a disc.

The source changes to "DISC" and playback starts.



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.

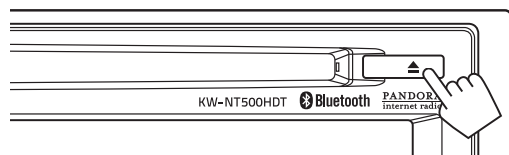
- If a disc does not have any disc menu, all tracks on it will be played repeatedly until you change the source or eject the disc.

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.

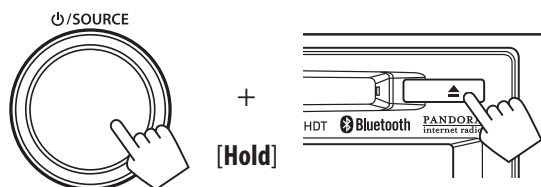
When playing back a multi-channel encoded disc, the multi-channel signals are downmixed.

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, see page 4.


To prohibit disc ejection



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 	✓OK
	DVD Audio	✗NO
	DVD-ROM	✗NO
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	
	WMA/AAC	✗NO
	JPEG	
	DivX/MPEG1/MPEG2/MPEG4	
	DVD+VR	
DVD-RAM	✗NO	
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	
	JPEG	✗NO
	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.

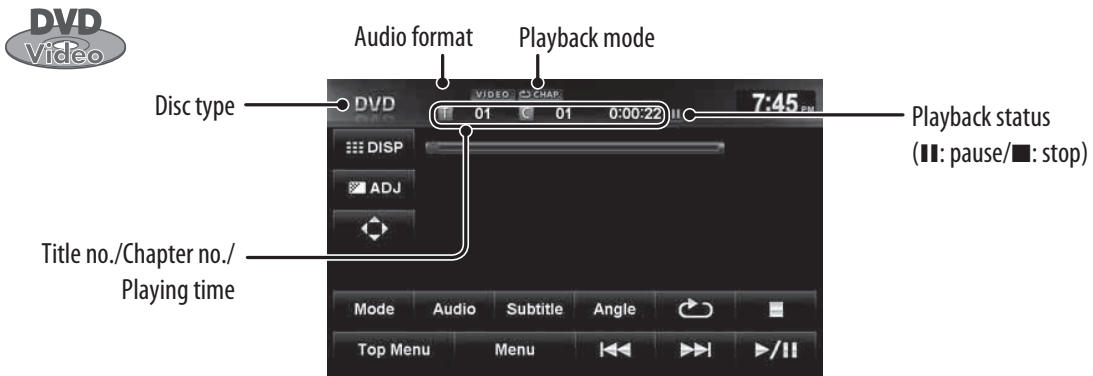
*⁴ This unit cannot play back contents protected with CPRM (Content Protection for Recordable Media).



Disc operations

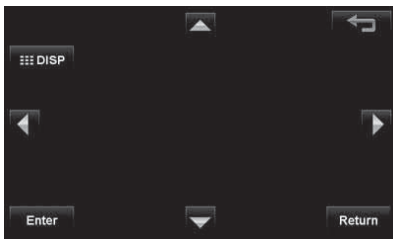
Only for DVD Video/DVD-VR:

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.



[▶ /]	Starts playback/pauses.	[DISP]	Hides/displays the operating buttons on the screen.
[■]	Stops playback.	[ADJ]	Adjusts the picture. (page 72)
[◀◀] [▶▶]	Press: Selects chapter. Hold: Reverse/forward search. (Search speed: x2 ⇌ x10)	[◂◃]	Displays the menu selecting screen. (below)
[Angle]	Selects view angle.	[↺]	Selects repeat playback mode. (page 55)
[Audio]	Selects audio language.	[Mode]	Changes the settings for disc playback. (page 56)
[Subtitle]	Selects subtitle language.		
[Menu]	Displays the disc menu.		
[Top Menu]			

Using the menu selecting screen



[▲] [▼] [◀] [▶]	Selects the menu items.
[Enter]	Confirms the selection.
[Return]	Returns to the previous menu.

Caution for DualDisc playback

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

DVD VR

Disc type

Audio format (program) or VR-PLAY (playlist)

VR playback mode—VR-PRG

Playback mode

Playback status (||: pause/■: stop)

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

Mode Audio Subtitle

Program List Play List

[▶ / ||] Starts playback/pauses.
[■] Stops playback.
[|◀◀| ▶▶|] Press: Selects chapter.
Hold: Reverse/forward search. (Search speed: x2 ⇌ x10)

[Audio] Selects audio channel (ST: stereo, L: left, R: right).
[Subtitle] Shows (ON)/hides (OFF) the subtitle.
[Play List] 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)
[↺] Selects repeat playback mode. (☞ page 55)
[Mode] Changes the settings for disc playback. (☞ page 56)
[Program List] Displays the Original Program.

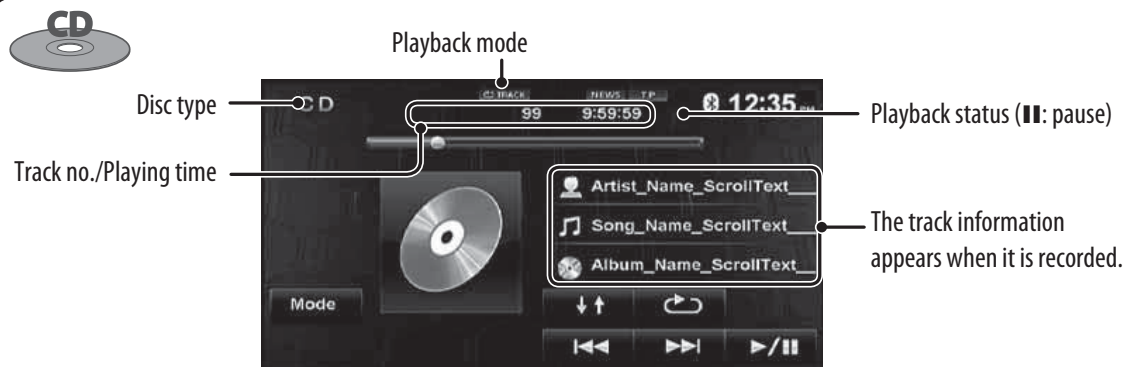
Playlist

↑	ListName_12345678901234567890	00:00:00
	ListName_12345678901234567890	00:00:00
	ListName_12345678901234567890	00:00:00
	ListName_12345678901234567890	00:00:00
↓	ListName_12345678901234567890	00:00:00

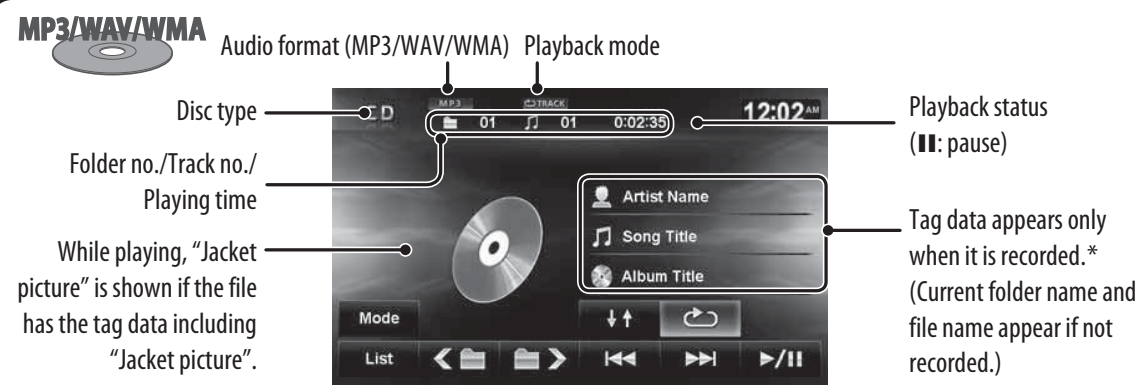
Original Program

↑	ListName_12345678901234567890	2010-12-24
	ListName_12345678901234567890	2010-12-24
	ListName_12345678901234567890	10-12-24
	ListName_12345678901234567890	2010-12-24
↓	ListName_12345678901234567890	2010-12-24

Disc operations



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



- | | | | |
|-------------|--|-----------|---|
| [▶ /] | Starts playback/pauses. | [↓ ↑] [↺] | Selects playback modes. (☞ page 55) |
| [◀◀] [▶▶] | Press: Selects track.
Hold: Reverse/forward search. | [Mode] | Changes the settings for disc playback. (☞ page 56) |
| [◀ 📁] [📁 ▶] | Selects folder. | [List] | Displays Folder/Track Lists. (☞ page 11) |

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

Playing Recordable/Rewritable discs

- This unit can recognize a total of 5 000 files and 250 folders (a maximum of 999 files per folder).
- Use only "finalized" discs.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some discs or files may not be played back due to their characteristics or recording conditions.

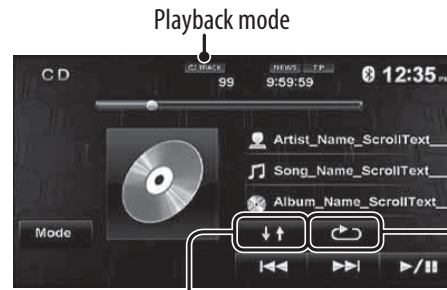
Selecting playback modes

For DVD/DVD-VR



Selects Repeat playback mode

For CD/MP3/WAV/WMA



Selects Random playback mode

Selects Repeat playback mode

- For DVD:

CHAP.	Repeats current chapter.
TITLE	Repeats current title.

- For DVD-VR

CHAP.	Repeats current chapter.
PROG.	Repeats current program (not available for Playlist playback).

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

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

- 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/WMA:

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.

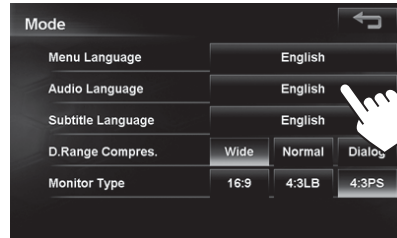
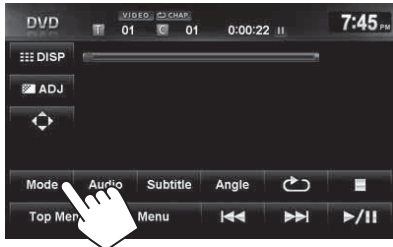
To cancel, press the button repeatedly until the indicator disappears.



Disc operations

ENGLISH

Settings for the disc playback



Disc Setup items	Selectable settings	Initial: <u>Underlined</u>
Menu Language	Select the initial disc menu language; Initial <u>English</u> . (☞ also page 77)	
Audio Language	Select the initial audio language; Initial <u>English</u> . (☞ also page 77)	
Subtitle Language	Select the initial subtitle language or erase the subtitle (Off); Initial <u>Off</u> . (☞ also page 77)	
D. Range Compression	You can enjoy a powerful sound at a low volume level while playing Dolby Digital software. Wide : Select to apply this effect to xxx. Normal : Select to apply this effect to xxx. Dialog : Select to apply this effect to xxx.	
Monitor Type	Select the monitor type to watch a wide screen picture on the external monitor. ◆ <u>16:9</u> ◆ 4:3 LB (Letterbox) ◆ 4:3 PS (PanScan)	



The Monitor Type setting also determines how videos are displayed on the unit.

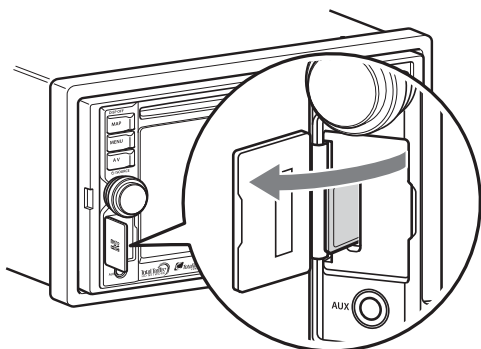


SD/USB operations

This unit can play the MP3/WMA/AAC/FLAC/MPEG4/MPEG4-AVC H.264/WMV 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



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

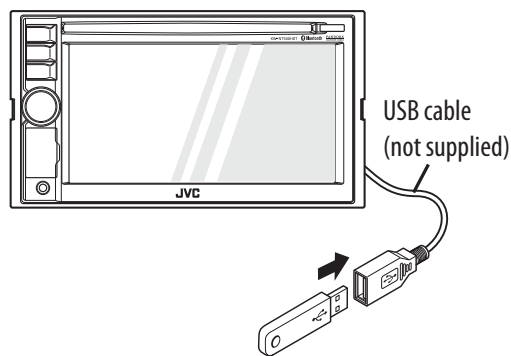
To eject the SD card

Open 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 (USB) terminal of the unit.
- When connecting a USB device, refer also to its instructions.



Select "USB" as the source.

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, see page 76.



SD/USB operations

The diagram shows a playback screen with the following elements and labels:

- Source type ("SD" or "USB")**: Points to the 'SD' indicator in the top left.
- Folder no./Track no./Playing time**: Points to the '01 / 01 0:00:12' display.
- While playing, "Jacket picture" is shown if the file has the tag data including "Jacket picture"**: Points to the 'SD' logo image.
- Audio format (MP3/WMA/AAC/FLAC) Playback mode**: Points to the 'MP3' and '01' indicators.
- Playback status (||: pause)**: Points to the pause icon in the top right.
- Tag data appears only when it is recorded.*1 (Current folder name and file name appear if not recorded.)**: Points to the metadata box containing 'Artist Name', 'Song Title', and 'Album Title'.

Below the screen, a list of controls and their functions is provided:

- [▶ / ||]**: 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).

MPEG4/MPEG4-AVC H.264/WMV MPEG4/MPEG4-AVC H.264/WMV

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

Source type ("SD" or "USB")

Folder no./Track no./Playing time

Playback mode

Playback status (II: pause)

Current folder name and file name

▶ / II] Starts playback/pauses.
[I<<<] [▶▶I] Press: Selects chapter.
Hold: Reverse/forward search.
(Search speed: x2 ⇌ x10)
[↓ ↑] Selects Random playback mode.*1 *2
• ↓ ↑ **FOLDER**: Randomly plays all tracks of the folder.
• ↓ ↑ **SD**/↓ ↑ **USB**: Randomly plays all tracks.

[DISP] Hides/displays the operating buttons on the screen.
[ADJ] Adjusts the picture. (page 72)
[↺] Selects repeat playback mode. (page 55)

[List] Displays the Playlist.
• For details about SD card/USB device and Playlist, refer to the instructions supplied with the recording equipment.

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

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

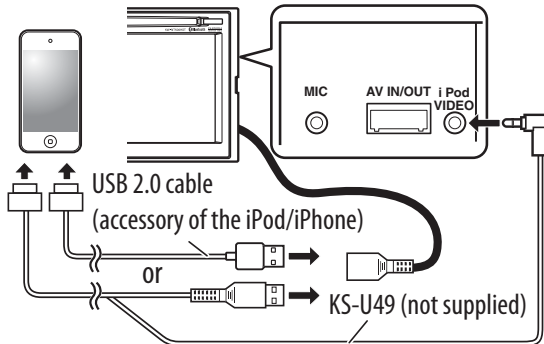
- While playing from a USB device, the playback order may differ from other players.
- This unit may be unable to play back some USB devices or some files due to their characteristics or recording conditions.
- This unit may not play back files in a USB device properly when using a USB extension cord.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



iPod/iPhone operations

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-U49 (not supplied)



- 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 4S*
 - 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-U49, not supplied).

Setting the iPod control mode

Head Mode



iPod Mode



iPod mode indicator appears.

External Mode



iPod Control Mode

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

Head Mode	Controls playback from this unit.
iPod Mode	Controls audio/video playback from the iPod/iPhone. <ul style="list-style-type: none"> • Playback information is shown.
Ext. Mode	Allows any audio/video signals from iPod/iPhone. <ul style="list-style-type: none"> • No information is shown.

For some iPod/iPhone models, the performance may be abnormal or unstable during operation. In this case, disconnect the iPod/iPhone device, then check its condition. If the performance is not improved or slow, reset your iPod/iPhone.

- The operations explained in this manual are under Head mode (☞ page 59).

Playing back the iPod/iPhone

While playing, touch the center of the screen to show the controls below.

The screenshot shows the iPod/iPhone playback screen with the following controls and functions:

- Track no./Total track number/Playing time**: 01/07 0:00:59
- Playback mode**: The speed of audio books *4
- Playback status**: (||: pause/■: stop)
- Seek bar**: A horizontal slider for navigating through the track.
- Song/video information**: A pop-up menu showing Song Name, Artist Name, and Album Name.
- iPod control mode**: A button to switch between different control modes.
- DISP**: A button to hide or display operating buttons.
- ADJ**: A button to adjust the picture.
- Repeat/Play/Pause**: A button to start playback or pause.
- Previous/Next**: Buttons to navigate between tracks.
- Shuffle**: A button to select a random track.
- Repeat**: A button to select a repeat playback mode.

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

You cannot resume playback for video sources under some conditions.

[▶ /]	Starts playback/pauses.	[DISP]	*1 Hides/displays the operating buttons on the screen.
[◀◀] [▶▶]	Press: Selects track/video. Hold: Reverse/forward search.	[ADJ]	*1 Adjusts the picture. (☞ page 72)
[List]	Displays the Music/Video menu on the iPod/iPhone. (☞ page 61)	[iPod/iPhone]	Changes the iPod control mode. (☞ page 59)
[↕]	Selects Random playback mode. *3	[Speed]	Selects the speed of audio books. ▶ X1 → X2 → X1/2
[↻]	Selects Repeat playback mode. *3	[iPod/iPhone]	*2 Selects the iPod/iPhone to play when multiple iPods/iPhones are connected.
[↻ ONE]	• Selects Repeat One playback mode. *3		
[↻ ALL]	• Selects Repeat All playback mode. *3		

*1 Appears only when video is played back.
 *2 Works only when multiple iPods/iPhones are connected.
 *3 To cancel random or repeat mode, press the button repeatedly until the indicator disappears.
 *4 Appears only when the iPod/iPhone is under Head mode.

- 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)



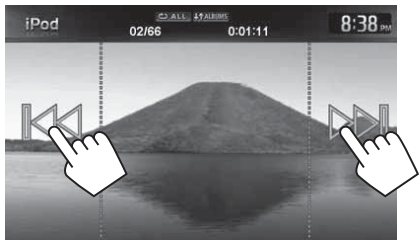
iPod/iPhone operations

Skipping/searching while watching the video

(iPod/iPhone video playback screen)



(Skipping/Searching while watching the video)



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

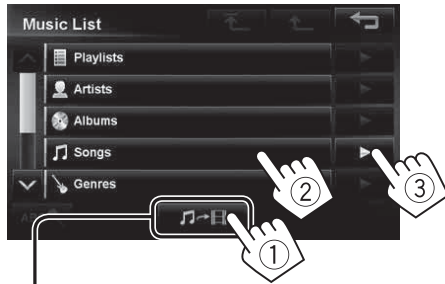
1



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

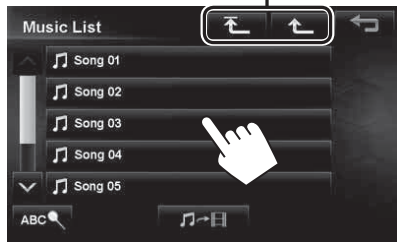
Music menu:

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

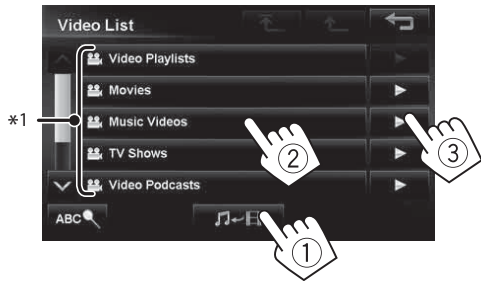


Corresponding icon lights in blue. (🎵: Music / 📺: Video)

Returns to the top/previous layer



Video menu:



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

*1 These categories are shown in the language selected on your iPod/iPhone.

Searching for items in the selected category by alphabet and number



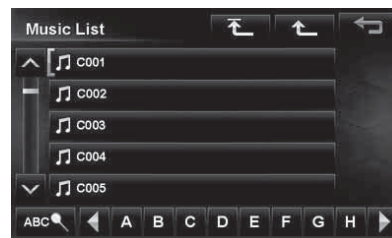
- 2 Display the first character of the title of the item you want to search for (1), then search for an item (2).



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.



Listening to iHeartRadio with the iPod/iPhone

Preparation

Install the latest version of the iHeartRadio application to your iPhone.

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.

1 Start the iHeartRadio application by your iPod touch/iPhone.

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

3 Select "iHeartRadio" as the source.

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

The screenshot shows the iHeartRadio application interface. Labels point to various elements: 'iHeartRadio mode' points to the top left; 'Channel number*1' points to '999'; 'Station name' points to the station name; 'Sound off' points to a square icon; 'Song information' points to the artist and song name; 'Displays the album artwork or the station logo.*2' points to the iHeartRadio logo.

Legend:

- [▶ / ■] Turns the sound on and off.
- [◀◀] [▶▶] Selects the previous/next favorite station.
- [Random] Randomly selects a station.
- [Stations] Displays the Station List.
- [★] Storing your favorite stations (☞ page 64)
- [Tag] Tags the current song.

*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.



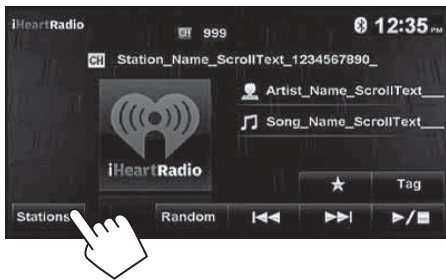
Listening to iheartradio with the iPod/iPhone

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.

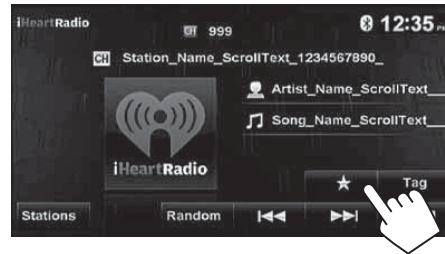
2 Select the station type (1), and then the desired station (2).



- 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 **[Favorites]** station list.

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

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



Listening to iheartradio with the iPod/iPhone

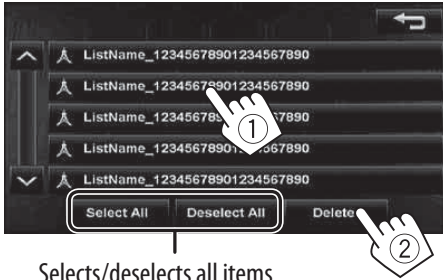
To delete the station from the favorite list

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.

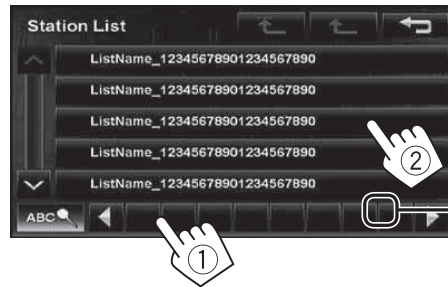
Searching for stations in All Cities category by alphabet

1



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

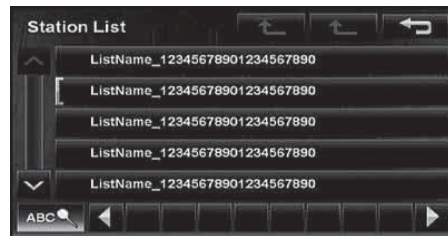
Erases the search operation buttons



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.





Pandora® internet radio operations

Preparation

Install the latest version of the Pandora® application to your iPhone.

- Select "Pandora" as the source. (🔗 page 59)

Thumb up/down indicator Playing time

Station name Station_Name

Artist_Name
Song_Name
Album_Name

Playback status (||: pause)

Song information

- Touching an information bar scrolls the text if not all of the text is shown.

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

[Stations] Displays the Station List. [▶ / ||] Starts/pauses playback.
 (🔗 page 61) [▶▶] Skips the current song.

[👍] / [👎] Selects thumbs up/thumbs down.
 • If thumbs down is selected current track is skipped.

[👤 ★+] Bookmarks the artist.

[🎵 ★+] Bookmarks the current song.

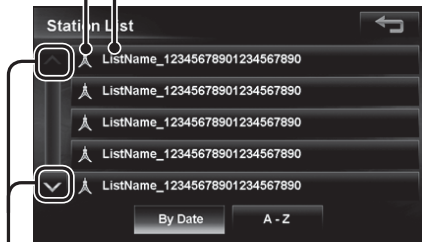


Pandora® internet radio operations

Selecting station from the Station List

Appears when Quick Mix function is activated
(All songs in the registered stations are played randomly)

Appears when the station is shared



Changes the page

To sort the Station List

[By Date]	Sorts the list in reverse chronological order.
[A - Z]	Sorts the list in alphabetical order.

About Pandora® internet radio

The requirements for listening to Pandora are as follows:

- Use an Apple iPhone or iPod touch running under iOS3 or later.
- Search for "Pandora" in the Apple iTunes App Store to find and install the latest version of the Pandora® application on your device.
- In the application on your device, log in and create an account with Pandora. (If you are not already a registered user, an account can also be created at www.pandora.com.)
- Internet connection by 3G, EDGE, or WiFi.
- iPhone connected to this unit with a KS-U49.
- Pandora® is available only in the U.S.
- Because Pandora® is a third-party service, the specifications are subject to change without prior notice. Accordingly, compatibility may be impaired or some or all of the services may become unavailable.
- Some functions of Pandora® cannot be operated from this unit.
- For issues using the application, please contact Pandora at pandora-support@pandora.com



Listening to the SiriusXM Radio

Before operating, connect the SiriusXM tuner (not supplied) to the expansion port on the rear of the unit.
(📖 Installation/Connection Manual)

ENGLISH

Activating subscription

- Select "SiriusXM" as the source.** (📖 page 44)
SiriusXM Tuner starts updating all the SiriusXM channels.
- Check your Radio ID.**
Radio ID is labeled on the casing of the SiriusXM Tuner or the bottom of the SiriusXM Tuner unit.
 - You can also display the Radio ID on the screen by tuning in to Channel 0.
 - To hide the ID display, select any channel other than "0".
- Contact SiriusXM on the internet at www.siriusxm.com/activatenow and enter the required information, or call 1-866-635-2349.**
Once activated, the unit can then be tuned to one of the available channels.

The screenshot shows the SiriusXM interface with the following elements labeled:

- Signal Reception indicator:** A bar graph showing signal strength.
- Band:** A dropdown menu showing 'SXM1'.
- Preset number:** A display showing '123'.
- Channel number:** A display showing '123'.
- Channel name:** A display showing 'SXM1'.
- Channel Name:** A display showing 'SXM1'.
- Category Name:** A display showing 'SXM1'.
- Category name:** A display showing 'SXM1'.
- Artist Name:** A display showing 'Artist Name'.
- Song Title:** A display showing 'Song Title'.
- Content Info:** A display showing 'Content Info'.
- The text information currently received:** A box containing the artist, song, and content info.
- Mode:** A button labeled 'Mode'.
- List:** A button labeled 'List'.
- Band:** A button labeled 'Band'.

[Band] Selects the band.
→ SXM1 → SXM2 → SXM3

[List] Displays the Category/Channel List.
Selects a channel directly.

[Mode] Changes the settings of the reception restrictions.

[<<] [>>] Selects a preset channel.

[|<<<] [>>>|] Press: Selects a channel.
Hold: Changes the channel rapidly.
– While searching, invalid and unsubscribed channels are skipped.





Listening to the SiriusXM Radio

ENGLISH

Storing channels in memory

You can preset six channels for each band.

- 1 Tune in to a station you want to preset. (☞ page 67)
- 2 Display the preset list. (☞ page 69)
- 3 Select a preset number you want to store.



Selecting preset channels

- 1 Display the preset list. (☞ page 69)
- 2 Select a preset number.



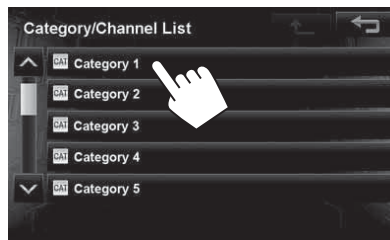
Also changes preset channels

Selecting on the list

1



2 Select a category.



3 Select a channel.

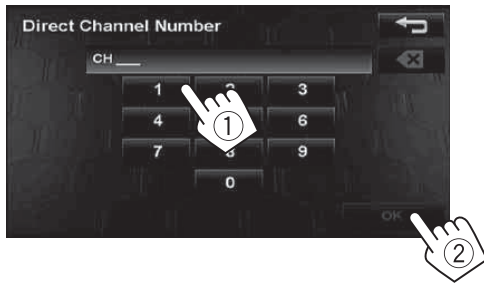


Selecting a channel directly

1



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



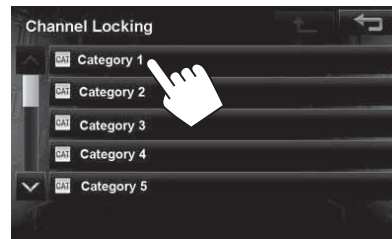
2 Enter a 4-digit new code number (1), then press [OK] (2).

Press: Deletes last character
Hold: Deletes all characters



3 Enter the same code, then press [OK].

4 Select the category, then the channel you want to activate the channel locking.



Setting the reception restrictions

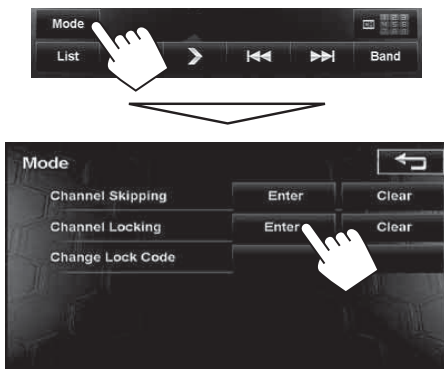
Setting the channel locking

You can set the channel locking in order to, for example, restrict children from receiving adult channels.

Setting the lock code and the channels to lock

- No lock code is set at factory shipment.

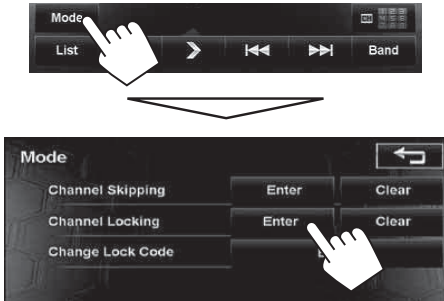
1 Display <Channel Locking> screen.



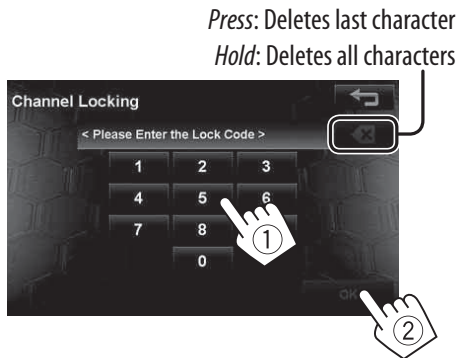
Listening to the SiriusXM Radio

Activating the channel locking

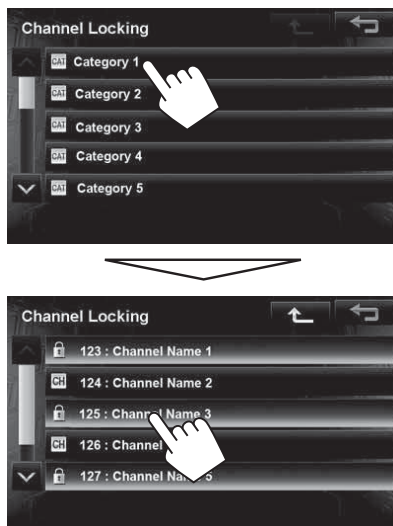
- 1 Display <Channel Locking> screen.




- 2 Enter your lock code number (1), then press [OK] (2).



- 3 Select the category, then the channel you want to activate the channel locking.

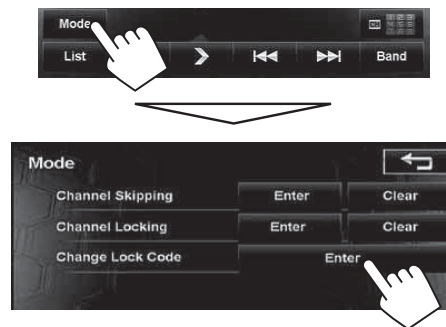


The  icon appears in front of the channel name with the channel locking activated.

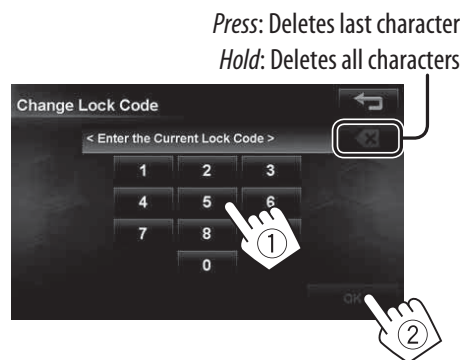
- When you try to receive a channel or select a channel directly by entering the channel number with the channel locking activated, the lock code input screen appears and you cannot receive the channel until you enter the correct code.

Changing the lock code

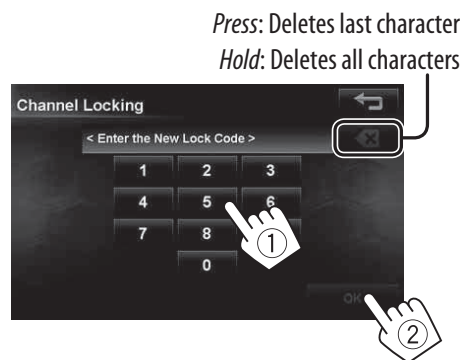
- 1 Display <Change Lock Code> screen.



- 2 Enter the current code number (1), then press [OK] (2).



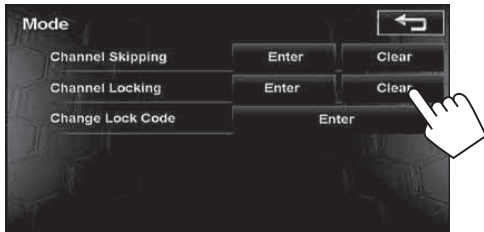
- 3 Enter the new code number (1), then press [OK] (2).



- 4 Enter the same code, then press [OK].

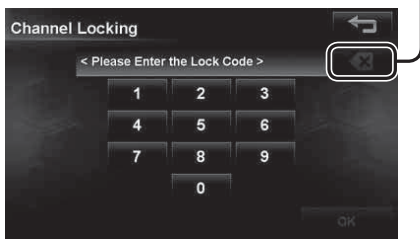
To clear the selection of channels with the channel locking activated

1 On <Mode> screen.



2

Press: Deletes last character
Hold: Deletes all characters



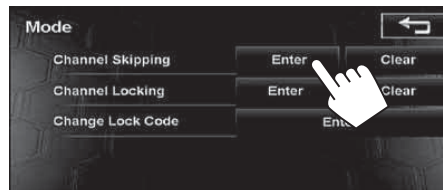
Channel locking code input screen appears. Enter your locking code number, then press [Yes] to confirm.

■ Skipping the unwanted channels

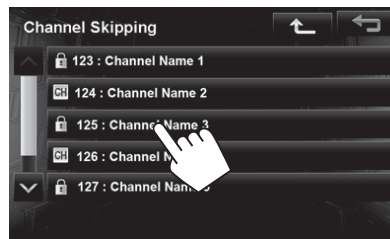
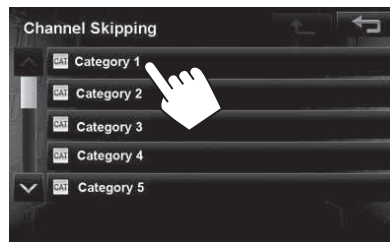
If you do not want to receive some channels, you can skip them.

Setting the channel skipping

1 Activate the channel skip function. On <Mode> screen.



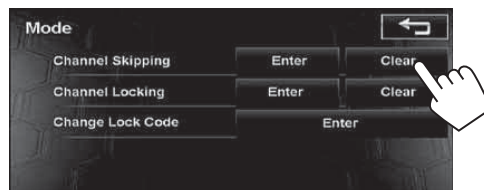
2 Select the category, then the channel you want to skip.



- Repeat this step if you want to skip multiple channels.

To clear the selection of channels for channel skipping

1 On <Mode> screen.



A confirmation message appears.



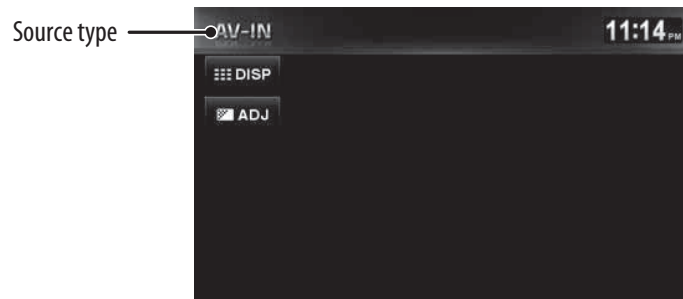


Using other external components

ENGLISH

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.



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



Hides/displays the operating buttons on the screen.



Adjusts the picture. (☞ page 72)

- Select an appropriate setting on <AV Input>. (☞ pages 74 and 75)

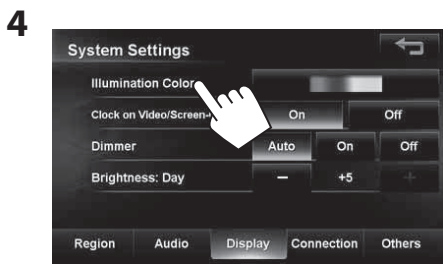
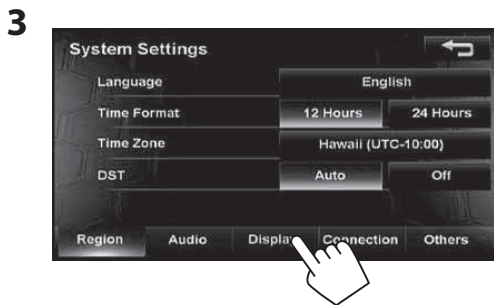
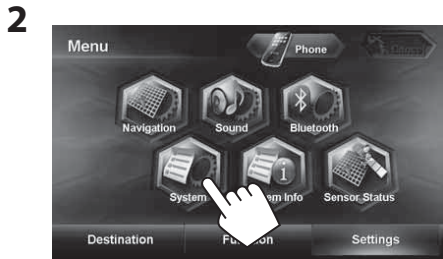


Changing illumination color

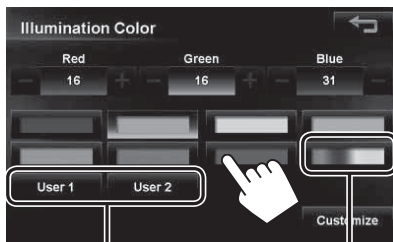
You can change the illumination color of the buttons on the monitor panel.

ENGLISH

1 Press **MENU** - <Settings>.



5 Select a color.



Your own color stored (right)

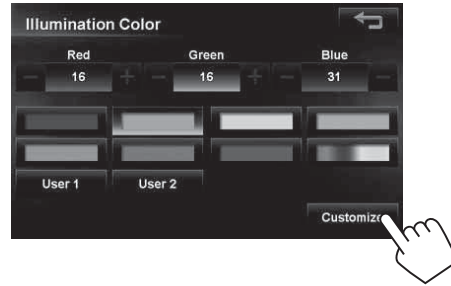
Variable color illumination

- Illumination color changes gradually.

Storing your own adjustments

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

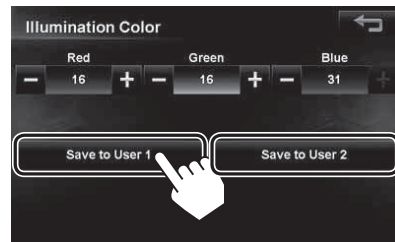
1 After selecting a color in step 5 on the left...



2 Adjust the color.



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

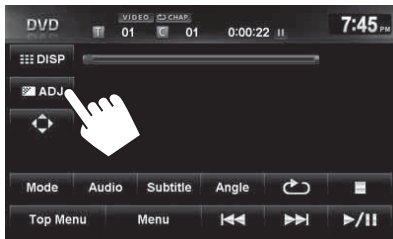


Settings for video playback

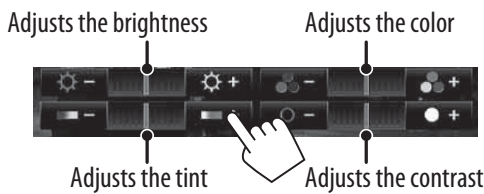
Picture adjustment

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

1 Display the adjustment menu.



2 Adjust the picture (-5 to +5).



Changing the aspect ratio

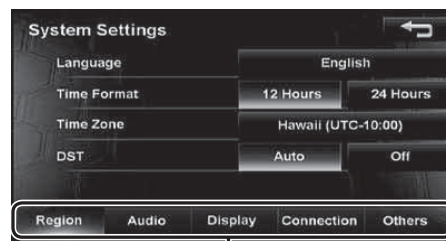
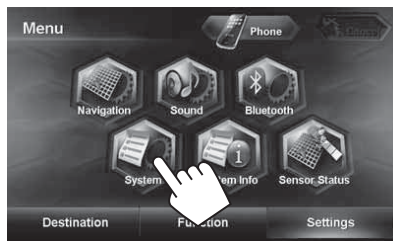
You can change the aspect ratio for video playback.

1 After displaying the adjustment menu in step 1 on the left...





	4:3 signal	16:9 signal
Full: For 16:9 original pictures		
Regular: For 4:3 original pictures		
Auto:	<ul style="list-style-type: none"> For "DISC" only: Aspect ratio is automatically selected to match to the incoming signals. 	

AV menu items



Switches the category by pressing the corresponding tab

	Menu items	Selectable settings	Initial: <u>Underlined</u>
Region	Language	Select the language used for on-screen information and voice guidance. <u>English, Español, Français</u>	
	Time Format	<u>12 Hours, 24 Hours</u>	

	Menu items	Selectable settings	Initial: <u>Underlined</u>
Region	Time Zone* ¹	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)* ¹	Activate this if your residential area is subject to DST. Auto : Activates daylight saving time. Off : Cancels.	
Audio	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	
	Guidance Mute	Muting : Mutes AV source sound when navigation voice guidance starts. Att. : Attenuates AV source sound when navigation voice guidance starts. Off : Cancels muting or attenuation.	
	Reverse Audio Reduction	On : Attenuates all sounds (AV and navigation voice) when you reverse. Off : Cancels.	
	Start Up Sound Level	Selects the initial sound level of when starting up the system. Off, Low, Mid, High	
Display	Illumination color	 page xx	
	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.	
	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.	
	Brightness: Day	Adjust the display brightness. -5 to +5; Initial +5	
	Off-axis Viewing	Adjust this setting if the screen is hard to see due to the angle or position. 1 to 4; Initial 1 • This item is deactivated when Dimmer is set to <Off>.	



AV menu items

	Menu items	Selectable settings	Initial: <u>Underlined</u>
Connection	Antenna Remote	Auto: Antenna remote output is always on. Manual: Allows user to turn on/off antenna remote output.	
	Camera Input ^{*1}	On, Off (☞ page 87)	
	AV Input	You can determine the use of the LINE IN and VIDEO IN jacks. (☞ page xx) 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 ^{*2} : Select when no component is connected (<AV-IN> is not selectable).	
Others	Beep	On: Activates the key-touch tone. Off: Cancels.	
	Shortcut button	Displays the screen to assign your most frequently used features to shortcut buttons. (☞ page xx)	
	Security Password	☞ page xx	
	Security Indicator	If you enable the security indicator, it flashes when the unit is turned off as an antitheft measure. On, Off	
	Demonstration	This setting will be deactivated and disappear from the menu when the System detects the first car movement. On, Off	
	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 xx).	

*1 The setting varies depending on the installation settings (☞ page xx).

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



Additional information

ENGLISH

File playback

Playing MP3/WMA*1/AAC/FLAC*1/WAV*2 files

- This unit can play back files with the extension code <.mp3>, <.wma>, <.flac>, or <.wav> (regardless of the letter case—upper/lower).
- This unit can play back the files meeting the conditions below:
 - Bit rate:
 - MP3: 8-320 kbps (disc), 32-320 kbps (SD/USB)
 - WMA: 32-320 kbps
 - AAC: 16-320 kbps
 - Sampling frequency:
 - MP3: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz, 8 kHz(disc only)
 - WMA: 48 kHz, 44.1 kHz, 32 kHz, 22.05 kHz (SD/USB only)
 - WAV: 44.1 kHz
 - FLAC: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz, 8 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 and FLAC files are played only when recorded on a USB device or SD card.

*2 WAV files are played only when recorded on a disc.

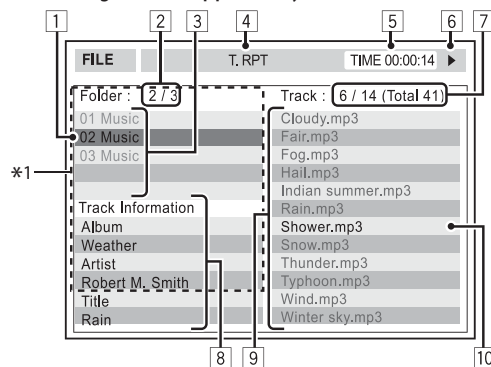
USB

- 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
- p Current track (highlighted)

*1 If tag data includes "Jacket Picture" (baseline JPEG), it will be displayed.

*2 Only for MP3/WAV



Additional information**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



Sound Settings

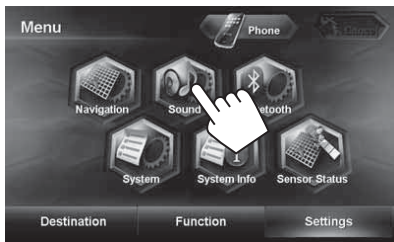
Setting the Sound

ENGLISH

You can set the audio effects and sound quality in the vehicle here.

Set the sound when the AV source is selected. This cannot be set when the tuner is on standby.

- 1 Press **MENU** - <Settings>.
- 2 Touch <Sound>.



- 3 Set each item.



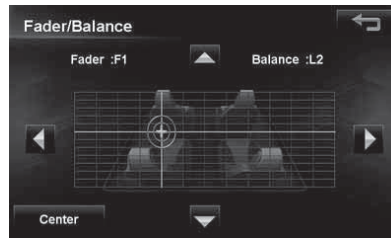
Setting Fader/Balance

You can set the right and left, and front and rear volume balance here.

- 1 Press **MENU** - <Settings>.
- 2 Touch <Fader/Balance>.



- 3 Touch the position to be balanced.



The following items can be set.

Menu items	Description
Fader/Balance	Sets the right and left, and front and rear volume balance. (☞ page xx)
Vehicle Type	Sets the vehicle type. (☞ page xx)
Speaker Settings	Sets the speaker configuration. (☞ page xx)
Position	Sets the listening position. (☞ page xx)
Equalizer	Sets the sound quality. (☞ page xx)
Volume Adjust	Sets the volume of each AV source equal. (☞ page xx)
Audio Effects	Sets the audio effects. (☞ page xx)
Others	Sets the built-in amplifier and pre-out terminal. (☞ page xx)

You can adjust the right / left balance by touching ◀ or ▶, and adjust front / rear balance by touching ▲ or ▼.

Touching <Center> sets the right and left, and front and rear balance at the center.

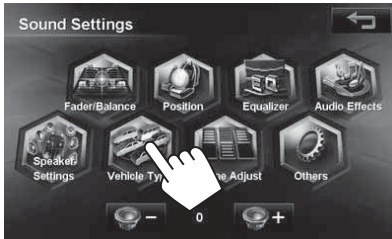


Setting the Sound

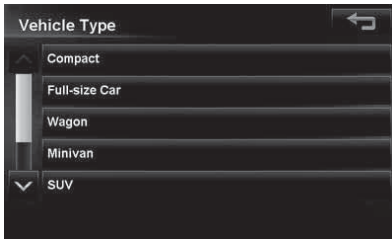
Setting the vehicle type

You can set the vehicle type here.

- 1 Press **MENU** - <Settings>.
- 2 Touch <Vehicle Type>.



- 3 Select a vehicle type and touch it.



The DTA suitable for the selected vehicle type is set. If you want to adjust the sound in more detail, set the listening position. (☞ Page xx)

Setting the speaker configuration

You can set the vehicle's speaker configuration here.

- 1 Press **MENU** - <Settings>.
- 2 Touch <Speaker Settings>.



- 3 Touch a speaker to be set.



- 4 Touch ◀ or ▶ next to <Location> to set the speaker's position.



- 5 Touch ◀ or ▶ next to <Size> to set the size of the speaker.



If the size is unknown, select <16-1/2">.
If there is no speaker, select <None>.

- 6 Only for the front speaker, touch ◀ or ▶ next to <Tweeter> to set the size of the tweeter.

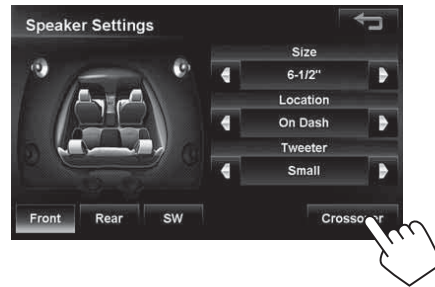


- <None> (without speaker) cannot be set for the size of the front speaker.
- When <Size> is set to <None> for the subwoofer, Crossover cannot be adjusted for the subwoofer.

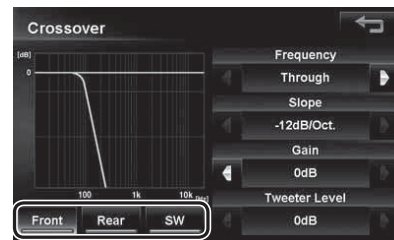
To change the crossover frequency of the speakers:

Set the front/rear speakers, crossover frequency, slope (attenuation rate) and phase of the subwoofer.

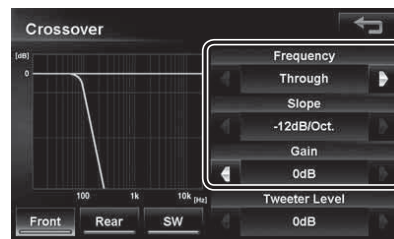
- 1 Touch <Crossover>.



- 2 Touch the button for the speaker where you want to change the crossover frequency.

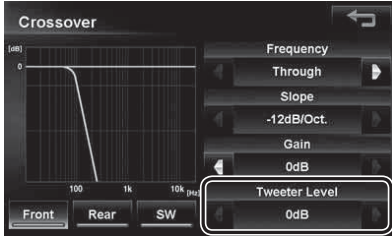


- 3 Touch ◀ or ▶ to set each item of the front (or rear) speaker and subwoofer.

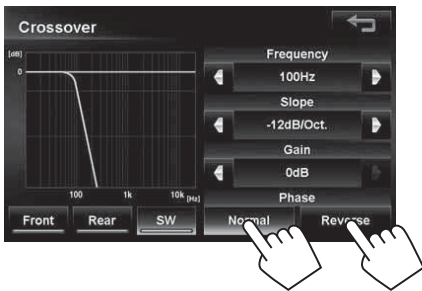


Setting the Sound

- 4 Only when you select the front speaker and the size of the tweeter is set for the front speaker in the speaker settings, touch **◀** or **▶** to set the tweeter output level.



- 5 Only when the subwoofer is selected, touch **<Reverse>** (reverse phase) or **<Normal>** (normal phase) to set the phase.



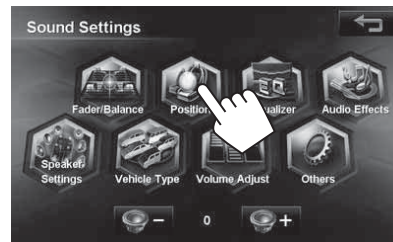
- With the front/rear speaker, the **<Frequency>** blocks the component lower than the frequency of the front/rear speaker. With the subwoofer, this frequency blocks the component higher than the frequency of the subwoofer. Using this function prevents the output of the low range component of the front/rear speaker and the output of the high range component of the subwoofer.
When **<Through>** is set, this function is set to OFF.
- **<Slope>** is the attenuation rate when the sound of the band set at the cutoff frequency is blocked. The attenuation rate per octave (oct) is set in dB.

Setting the listening position

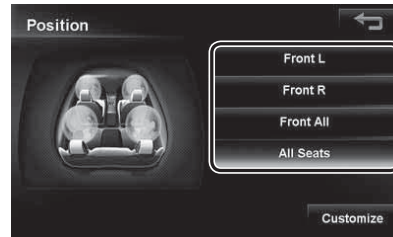
You can select the listening position here to set a better sound field for the people inside the vehicle.

Before setting this listening position, be sure to set the vehicle type. (☞ page xx)

- 1 Press **MENU** - **<Settings>**.
- 2 Touch **<Position>**.



- 3 Select a listening position and touch it.



The Digital Time Alignment (DTA) suitable for the selected listening position is set.

The DTA value can be fine-tuned. (☞ page xx)

The DTA is a function that adjusts the virtual position of the speaker so that the distance from the actual listening position to each speaker is the same.

To fine-tune the DTA for the listening position:

You can select the listening position here to set a better sound field for the people inside the vehicle.

- 1 Select a listening position.
- 2 Touch <Customize>.

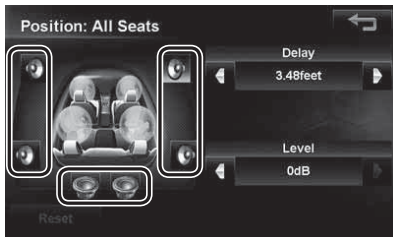


Furthermore, if <Level> is used for the adjustment, adjust the DTA while listening to the sound.

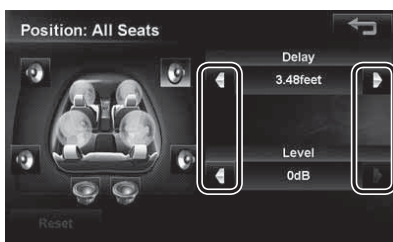
5 Repeat steps 3 and 4 to set all of the speakers.

- When the sizes of the rear speaker and subwoofer are set to <None>, the DTA of those speakers cannot be adjusted.
- If you touch <Reset> in step 3, a confirmation message appears. If you touch [Yes], all speaker adjustments of the listening position under adjustment are returned to the default settings.

3 Touch the button of the speaker to be adjusted.



4 Touch ◀ or ▶ of <Delay> or <Level> and adjust it.



When using <Delay> to adjust the DTA, input the actually measured distance.

In this case, when <All Seats> is selected in Position, specify the distance from the center of the all seats, and when <Front All> is selected, specify the distance from the midpoint between the right and left seats.



Setting the Sound

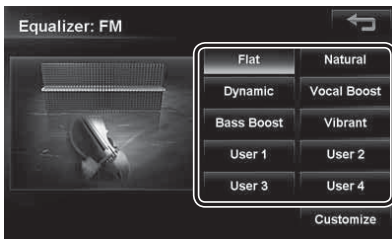
Setting the preset equalizer

The preset equalizer can be set by source here.

- 1 Select a source you want to set and press **MENU** - <Settings>.
- 2 Touch <Equalizer>.



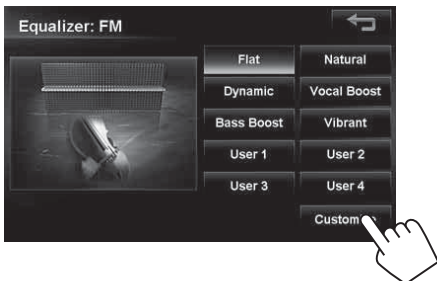
- 3 Select a genre of the preset equalizer and touch it.



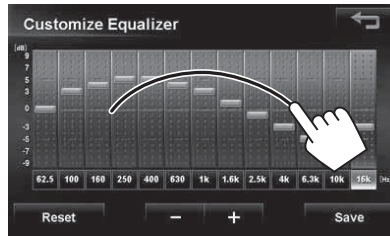
To set the user equalizer:

You can change the curve of the preset equalizer or set your own original equalizer curve.

- 1 Select a source you want to set, and press **MENU** - <Settings> - <Sound> - <Equalizer>.
- 2 Touch <Customize>.

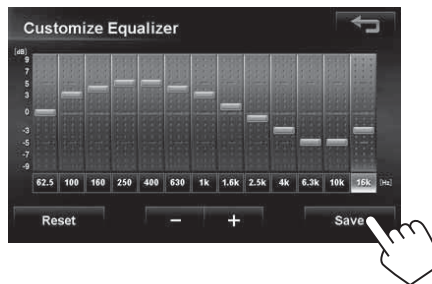


- 3 Trace the equalizer curve on the screen you want to set.



You can touch the central frequency to select the frequency and touch **-** or **+** to set the level.

- 4 Touch <Save>.



Touching <Reset> resets the equalizer curve to the default setting.

- 5 Select the destination.



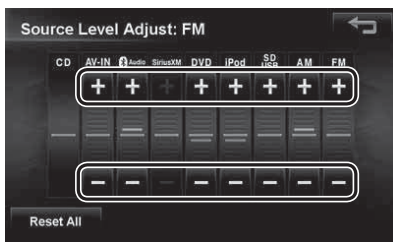
Setting the volume of each source equal

Set the volume of each source equal against the volume of a music CD.

- 1 Press **MENU** - <Settings>.
- 2 Touch <Volume Adjust>.



- 3 Touch **+** or **-** of the present source and adjust the volume.



Touching <Reset> resets the level adjustments of all source levels to ± 0 .

Setting the audio effects

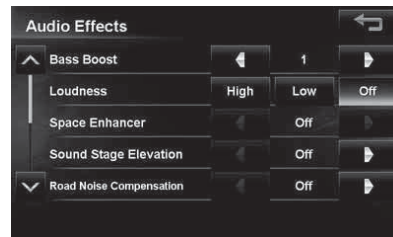
You can set various audio effects here.

Set the audio effects when the AV source is selected. They cannot be set when the tuner is on standby (audio off).

- 1 Press **MENU** - <Settings>.
- 2 Touch <Audio Effects>.



- 3 Touch **←** or **→** of each item and adjust it.



- 4 Touch **←**.
The screen returns to the sound setting menu.



Setting the Sound

ENGLISH

The following items can be set.

Menu items	Selectable settings	Description
Bass Boost	Level 3	Sets the level that the bass is boosted.
	Level 2	
	Level 1	
	Off*	Turns Bass Boost off.
Loudness	Level 2	Compensates bass and treble when insufficient in quiet audio segments. That level can be set here.
	Level 1	
	Off*	Sets Loudness to Off.
Space Enhancer	Large	Creates the effect of a virtual space that is larger than the actual vehicle interior.
	Medium	
	Small	The size of a virtual space can be set here.
	Off*	Sets Space Enhancer to Off.
Sound Stage Elevation	Level 3	Creates an effect of hearing the sound from the higher place than the actual position of the speakers.
	Level 2	
	Level 1	The position (height) of the virtual speakers can be set here.
	Off*	Sets Sound Stage Elevation to Off.
Road Noise Compensation	Level 3	Increases the volume of little sounds that can be easily washed out by road noise and boosts the bass.
	Level 2	
	Level 1	That level can be set here.
	Off*	Sets Road Noise Compensation to Off.
Audio Contrast	Level 3	Sharpens vague sounds to make the audio more realistic.
	Level 2	That level can be set here.
	Level 1	This function is effective for the compressed music data.
	Off*	Sets Audio Contrast to Off.
Digital Track Expander	On	Reproduces the natural sound of sources by restoring data that was lost and waves that were changed in audio compression to their original states. This function is effective for compressed music data.
	Off*	Sets Digital Track Expander to Off.

* Default setting

- When the source is set to "TUNER", Space Enhancer and Audio Contrast cannot be set.

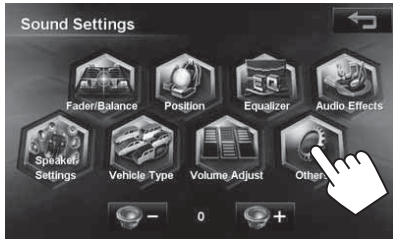


Setting the hardware

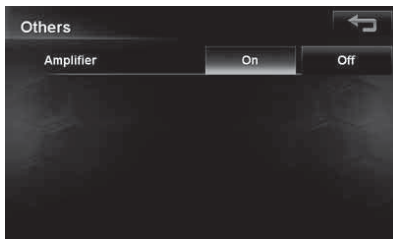
Sets the built-in amplifier output and pre-out terminal output.

1 Press **MENU** - <Settings>.

2 Touch <Others>.



3 Touch an option and select it.



Touching <Reset> resets the level adjustments of all source levels to ± 0 .

4 Touch .

The screen returns to <Sound Settings> menu.

The following items can be set.

Menu items	Selectable settings	Description
Amplifier	On*	Turns the built-in amplifier on.
	Off	Turns the built-in amplifier to off.

* Default setting



Bluetooth Operations

Information for using Bluetooth® devices



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



Using Bluetooth device

Registering a Bluetooth device

To connect a Bluetooth device for the first time

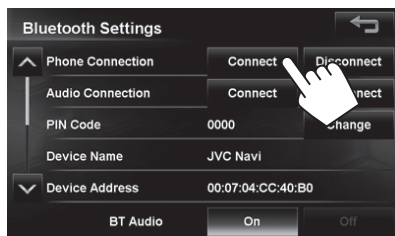
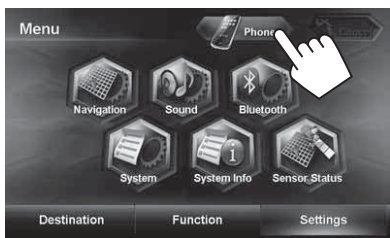
When you connect a Bluetooth device to the unit for the first time, make pairing between the unit and the device. Pairing allows Bluetooth devices to communicate with each other.

- 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-NT500HDT. When using the KW-NT300, the Device Name displayed is "KW-NT300".

- Operate the Bluetooth device to turn on its Bluetooth function.**
- Display the Bluetooth setting screen.**

For connecting a Bluetooth mobile phone



<Phone Settings> is displayed.

For connecting a Bluetooth audio player



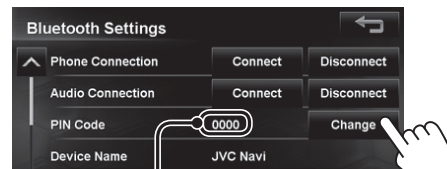
- To activate "BT Audio" for source selection, ☞ page 75 (<Bluetooth Audio>).



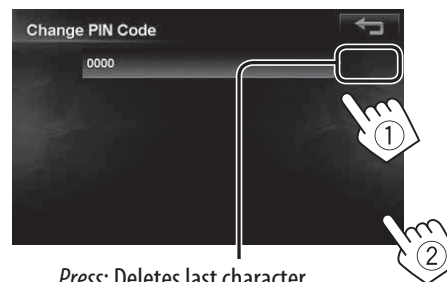
<Mode> is displayed.

3 Change the PIN code.

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

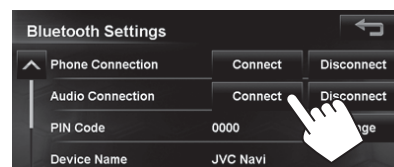


PIN code (initial: 0000)



Press: Deletes last character
Hold: Deletes all characters

4



Continued on the next page

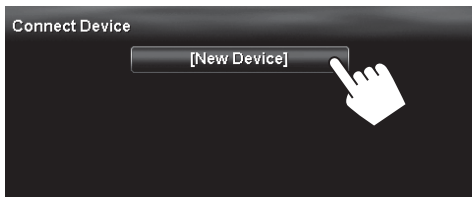




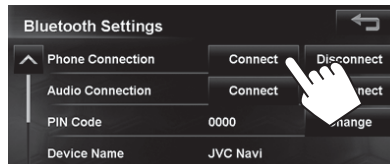
Using Bluetooth device

ENGLISH

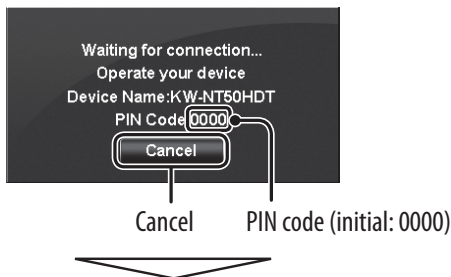
5



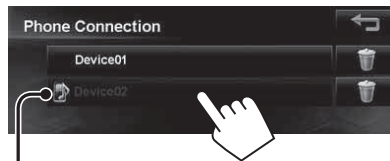
2 **To connect**



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



Select the device you want to connect.



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

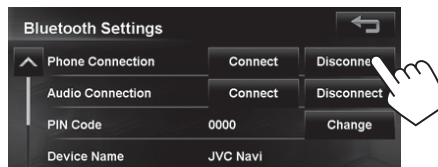
"Connected" appears. Press **[OK]** to confirm the operation.
Now connection is established and you can use the Bluetooth device through the unit.

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

Connecting/disconnecting a registered Bluetooth device

1 Press **[MENU]** - **<Settings>** - **<Bluetooth>**.

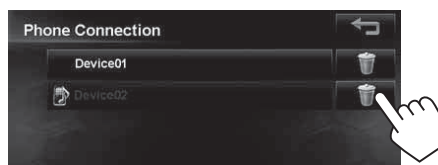
To disconnect



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.





Using Bluetooth mobile phone

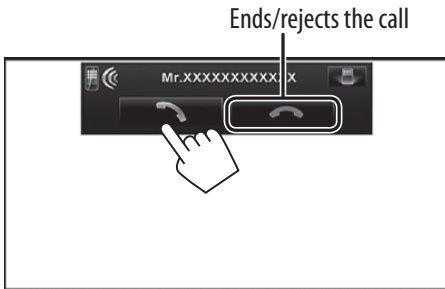
ENGLISH

Receiving a call

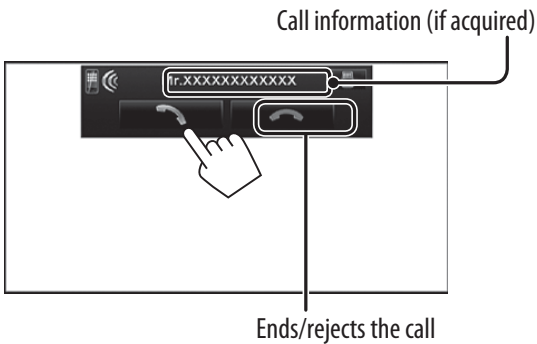
When a call comes in/making a call...

On map screen:

The mobile phone control bars appear.



On AV screen:



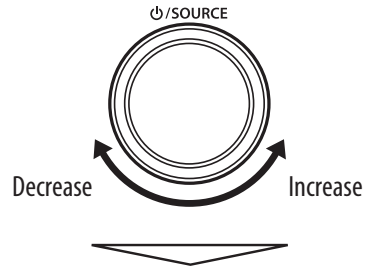
- Phone operation is not available while the picture from the rear view camera is displayed (☞ page 87).

When <Auto Answer> is set to <On>

The unit answers the incoming call automatically.

(☞ page 86)

Adjusting the volume of calls/earpiece

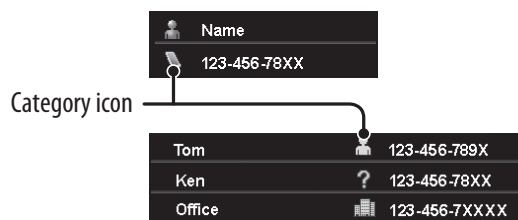


- This adjustment does not affect the volume level of the other sources.
- About the adjustable volume range, ☞ page 73 (<Amplifier>).

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.



Using Bluetooth mobile phone

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



3



Hold: Adds "+"

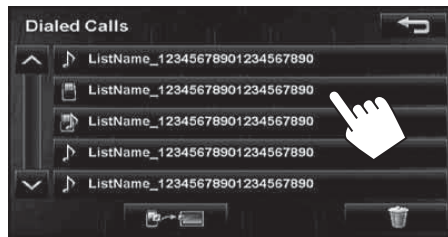
Press: Deletes last character
Hold: Deletes all characters

- 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. <ul style="list-style-type: none"> • For copying the phone book, 📖 page 83. • For searching for a number, 📖 page 83.

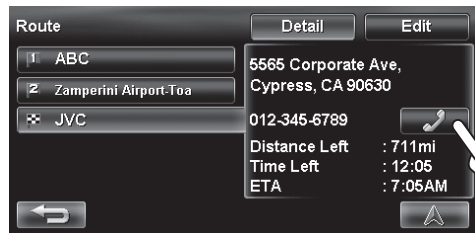


- If your mobile phone is compatible with Phone Book Access Profile (PBAP), 📖 page 84.

Making a call while operating on the navigation system



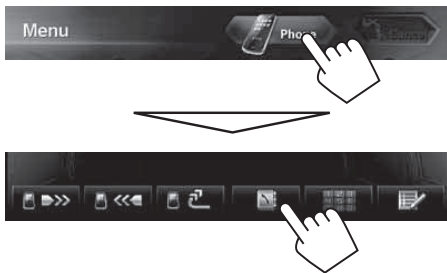
or



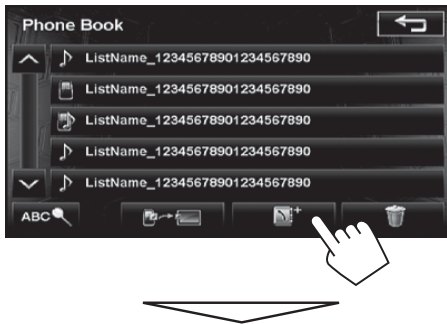
Copying the phone book

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

1 Display <Phone Book>.



2

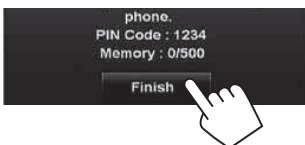


Numbers of the phone book memories copied

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.



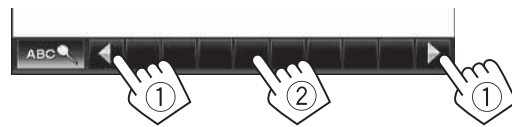
The phone book memory is copied from the mobile phone.

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).



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

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

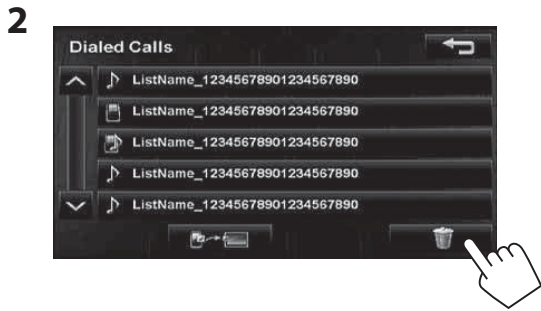
3 Select the phone number to call from the list.



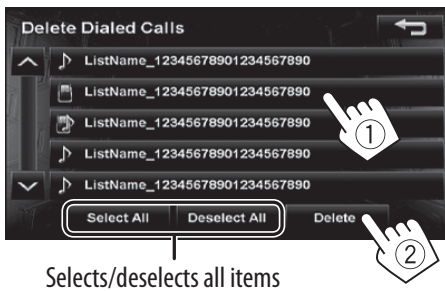
Using Bluetooth mobile phone

Deleting the phone number memory in the unit

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



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



Selects/deselects all items

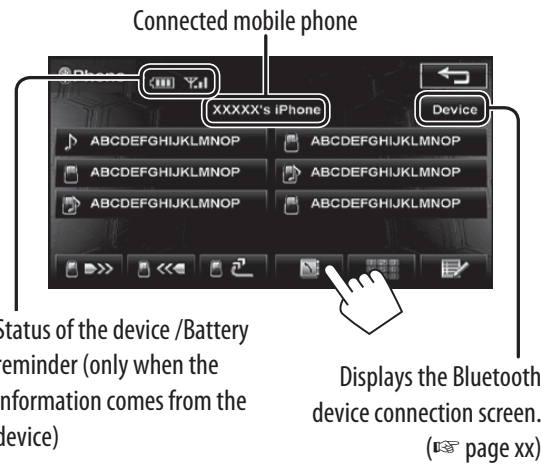
A confirmation message appears.

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

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

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

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





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

Track no./Playing time

Playback status (||: pause/■: stop)

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

Artist_Name_ScrollText

Song_Name_ScrollText

Album_Name_ScrollText

Device

▶ Starts playback.

|| Pauses.

[|◀◀] [▶▶|] Selects track.

[◀ ▶] Selects the group. (Works only when the device supports the function.)

[↓ ↑] Selects Random playback mode.*

[↺] Selects Repeat playback mode.*

[Device] Displays the Bluetooth device connection screen. (page 86)

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





Bluetooth device settings

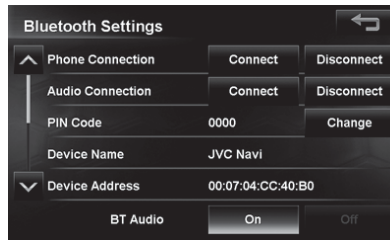
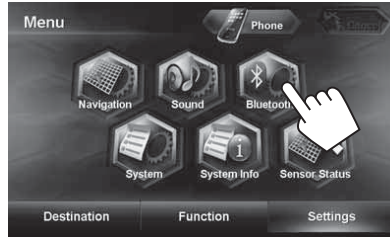
ENGLISH

For Bluetooth mobile phone

1



2



Menu items	Selectable settings	Initial: <u>Underlined</u>
Phone Connection	Connect: page 80 Disconnect: page 80	
Audio Connection	Connect: page xx Disconnect: page xx	
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-NT500HDT” or “KW-NT300”.	
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.	
BT Audio	On: Select when playing the Bluetooth audio device using “Bluetooth” as the source. Off: Select when playing back iPod/iPhone using “iPod” as the source.	





Rear View Camera Operations

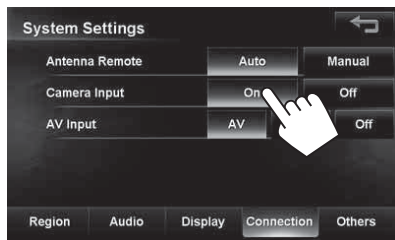
Using a rear view camera

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

Activating the rear view camera

1 Press **MENU** - <Settings> - <System> - <Connection>.

2



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.



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

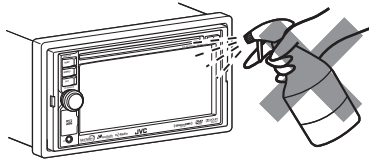


References

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.

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.

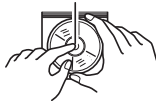
Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

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.

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

Centre holder



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



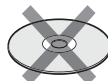
Unusual shape



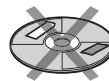
Warped disc



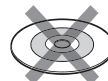
C-thru Disc (semi-transparent disc)



Sticker and sticker residue



Transparent or semi-transparent on its recording area



Stick-on label





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.	<ul style="list-style-type: none"> • 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.	Turn off, then turn on the unit.
	The touch panel does not respond properly.	<ul style="list-style-type: none"> • 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>. (☞ 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 startup failed."	The System cannot start up. Turn off, then turn on the unit.
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.



Troubleshooting/error messages

	Symptoms	Remedies/Causes
Navigation	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. <ul style="list-style-type: none"> – GPS antenna – Speed signal lead If any disconnection is found, connect the lead again. <ul style="list-style-type: none"> • 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"	<ul style="list-style-type: none"> • 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.	

Continued on the next page

	Symptoms	Remedies/Causes
Navigation	"There is no available traffic information now."	No valid traffic information is available now. Try one of the followings: <ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • <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)
	<ul style="list-style-type: none"> • Recordable/Rewritable discs cannot be played back. • Tracks on the Recordable/Rewritable discs cannot be skipped. 	<ul style="list-style-type: none"> • Insert a finalized disc. • Finalize the discs with the component which you used for recording.

Troubleshooting/error messages

	Symptoms	Remedies/Causes
Disc in general	Playback does not start.	<ul style="list-style-type: none"> • Insert the disc correctly again. • The format of files is not supported by the unit.
	Sound and pictures are sometimes interrupted or distorted.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • Connect the video cord correctly. • Select the correct input on the external monitor.
	"Read error"	<ul style="list-style-type: none"> • 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.
	<ul style="list-style-type: none"> • "Eject Error" • "Loading Error" 	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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.

Continued on the next page

	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.	<ul style="list-style-type: none"> • Check the connection. • Charge the battery. • Check whether <Head Mode>, <iPod Mode> or <Ext. Mode> 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 Mode> or <Ext. Mode> (☞ 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.
SiriusXM Radio	"No Signal"	Make sure the Satellite radio antenna is mounted outside the vehicle. Move vehicle to an area with a clear view of the sky.
	"Check Antenna"	<ul style="list-style-type: none"> • Check the Satellite radio antenna connection and make sure it is firmly attached to the tuner. • Check the Satellite radio antenna cable to see whether it is bent or broken. If the antenna cable is damaged, replace it.
	"Check Tuner"	The communication is disconnected or an error occurs. Wait for a while.

Troubleshooting/error messages

	Symptoms	Remedies/Causes
SiriusXM Radio	"Channel Not Available"	Selected channel is no longer available or is unauthorized. Select another channel or continue listening to the previous channel.
	"Ch Unsubscribed"	Selected channel is not part of your current subscription plan. Call 1-866-635-2349 to subscribe.
	"Subscription updated. Press [OK] to continue."	Your subscription is updated. Press [OK] button to continue.
	"Subscription updated. Switch to the AV screen to continue."	Your subscription is updated. To continue, switch to the AV screen and then press [OK] button.
AV-IN/Front Aux	"No Signal"	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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.

Continued on the next page

Troubleshooting/error messages

ENGLISH

	Symptoms	Remedies/Causes
Rear view camera	The rear view screen is not displayed when the gear is shifted to the reverse (R) position.	<ul style="list-style-type: none"> • 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 the connections.
	"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	62.5 Hz, 100 Hz, 160 Hz, 250 Hz, 400 Hz, 630 Hz, 1 kHz, 1.6 kHz, 2.5 kHz, 4 kHz, 6.3 kHz, 10 kHz, 16 kHz	
		Level	±9 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 (🔌), 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)		

Specifications

ENGLISH

DVD/CD	Signal Detection System	Non-contact optical pickup (semiconductor laser)		
	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 32 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 \pm 1 A			
BLUETOOTH	Version	Bluetooth 2.1 + EDR 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	7.0 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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END-USER TERMS

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