



# KW-M740BT KW-M740BTM

## MONITOR WITH RECEIVER INSTRUCTION MANUAL

JVC KENWOOD Corporation

- Updated information (the latest Instruction Manual, system updates, new functions, etc.) is available from <http://www.jvc.net/cs/car/>.



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## Before Use

### Precautions

#### ▲ WARNINGS

#### ■ To prevent injury or fire, take the following precautions:

- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- Do not watch or fix your eyes on the unit's display when you are driving for any extended period.
- If you experience problems during installation, consult your JVC dealer.

#### ■ Precautions on using this unit

- When you purchase optional accessories, check with your JVC dealer to make sure that they work with your model and in your area.
- You can select language to display menus, audio file tags, etc. See **User Interface Setup (P.44)**.
- The Radio Data System or Radio Broadcast Data System feature won't work where the service is not supported by any broadcasting station.
- The unit may not function properly if the connectors between the unit and front panel are dirty. Detach the front panel and clean the connector with a cotton swab gently, being careful not to damage the connector.

#### ■ Protecting the monitor

- To protect the monitor from damage, do not operate the monitor using a ball point pen or similar tool with the sharp tip.

#### ■ Cleaning the unit

- If the faceplate of this unit is stained, wipe it with a dry soft cloth such as a silicon cloth. If the faceplate is stained badly, wipe the stain off with a cloth moistened with neutral cleaner, then wipe it again with a clean soft dry cloth.

#### NOTE

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

#### ■ Acquiring GPS signal

The first time you turn on this unit, you must wait while the system acquires satellite signals for the first time. This process could take up to several minutes. Make sure your vehicle is outdoors in an open area away from tall buildings and trees for fastest acquisition.

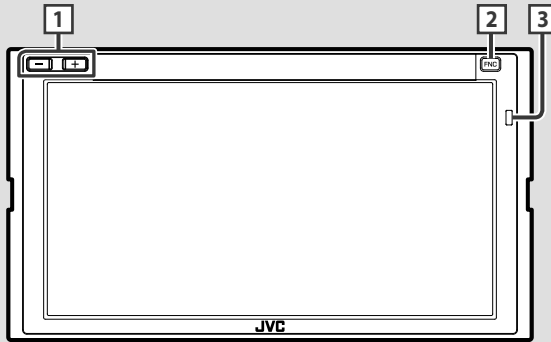
After the system acquires satellites for the first time, it will acquire satellites quickly each time thereafter.

### How to read this manual

- The screens and panels shown in this manual are examples used to provide clear explanations of the operations. For this reason, they may be different from the actual screens or panels used, or some display patterns may be different.
- **Indication language:** English indications are used for the purpose of explanation. You can select the indication language from the **SETUP** menu. See **User Interface Setup (P.44)**.

# Basic Operations

## Functions of the Buttons on the Front Panel



### NOTE

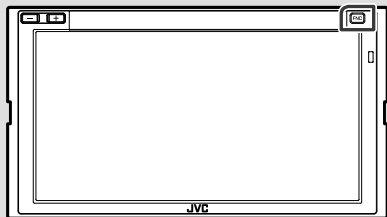
- The panels shown in this guide are examples used to provide clear explanations of the operations. For this reason, they may be different from the actual panels.

Number	Name	Motion
1	-, + (Volume)	<ul style="list-style-type: none"> <li>Adjusts volume.</li> <li>The volume will go up until 15 when you keep pressing +.</li> </ul>
2	FNC	<ul style="list-style-type: none"> <li>Displays the popup menu screen.</li> <li>Pressing for 1 second displays the Voice Recognition screen (<b>P.36</b>).</li> <li>When the power off, turns the power on.</li> </ul>
3	Remote Sensor	<ul style="list-style-type: none"> <li>Receives the remote control signal.</li> </ul>

## Turning on the Unit

The method of turning on is different depending on the model.

- 1 Press the **FNC** button.



➤ The unit is turned on.

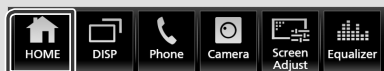
### NOTE

- If it is your first time turning the unit on after installation, it will be necessary to perform Initial setup (P.6).

### ● To turn off the unit:

- 1 Press the **FNC** button.
  - Pop-up menu appears.

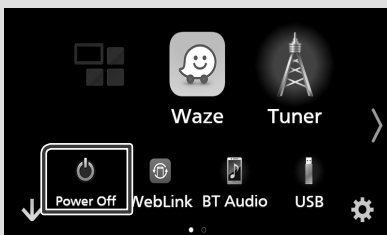
- 2 Touch .



➤ HOME screen appears.

- 3 Touch .

- 4 Touch **Power Off**.



## Initial Settings

### Initial setup


Perform this setup when you use this unit first time.

- 1 Set each item as follows.



#### ■ Language

Select the language used for the control screen and setting items. Default is "British English (en)".

- ① Touch **Language**.
- ② Touch **Language Select**.
- ③ Select the desired language.
- ④ Touch .

For detailed operation, see **User Interface Setup (P.44)**.

#### ■ Clock

Sets the synchronization of the clock and adjusts it.

For detailed operation, see **Calendar/clock settings (P.8)**.

#### ■ Display


If it is hard to see the image on the screen even, adjust the viewing angle.

- ① Touch **Display**.
- ② Touch **Viewing Angle**.
- ③ Select an angle
- ④ Touch .

For detailed operation, see **Display Setup (P.46)**.

#### ■ Camera

Set the parameters for the camera.

- ① Touch **Camera**.
- ② Set each item and touch .

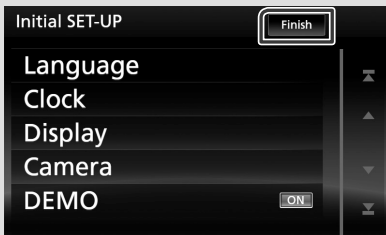
For detailed operation, see **Camera Setup (P.40)**.

### ■ DEMO

Set the demonstration mode. Default is "ON".

- 1 Touch **DEMO** and set ON or OFF.

### 2 Touch Finish.



#### NOTE

- These settings can be set from the SETUP menu. See **Setting Up (P.43)**.

## Security Code Setup

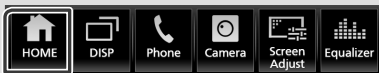
You can set up a security code to protect your receiver system against theft.

When the Security Code function is activated, the code cannot be changed and the function cannot be released. Note the Security Code can be set as 4 to 8-digit number of your choice.

### 1 Press the **FNC** button.

- Pop-up menu appears.

### 2 Touch .



- HOME screen appears.

### 3 Touch .



### 4 Touch **Security**.



- Security screen appears.

### 5 Touch **Security Code Set** on the Security screen.

- Security Code Set screen appears.

### 6 Enter a security code with 4 to 8-digit number and touch **Enter**.



### 7 Enter the same code again and touch **Enter**.

- Now, your security code is registered.

#### NOTE

- Touch **BS** to delete the last entry.
- If you enter a different security code, the screen returns to step 6 (for the first code entry).
- If you have disconnected the Receiver from battery, enter the correct security code as that you have entered in step 6 and touch **Enter**. You can use your receiver.

### To change the security code:

- 1 Touch **Security Code Change** on the Security screen, then repeat step 6 and 7.

### To clear the security code:

- 1 Touch **Security Code Cancellation** on the Security screen.

## Calendar/clock settings

1 Press the **FNC** button.

➤ Popup menu appears.

2 Touch .



➤ HOME screen appears.

3 Touch .



4 Touch **User Interface**.



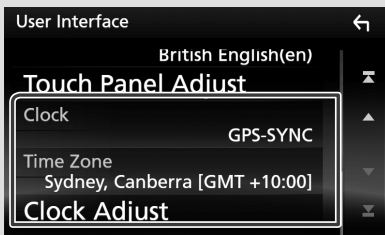
➤ User Interface screen appears.

5 Touch **Time Zone** in the User Interface screen.

6 Select the time zone.

7 Set each item as follows.

Scroll the page to show the item.



### ■ Clock

**GPS-SYNC** (Default): Synchronizes the clock time with the GPS.

**Manual**: Sets the clock manually.

### ■ Time Zone

Select the time zone.

### ■ Clock Adjust

If you select **Manual** for Clock, adjust the date and time manually. (P.44)

### NOTE

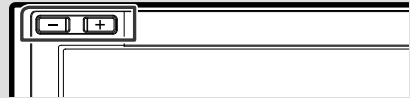
- Please set the date and time. If it is not set, it may not work with some functions.

## Adjusting the volume

To adjust the volume (0 to 40),

Press **+** to increase, and press **-** to decrease.

Holding **+** increases the volume continuously to level 15.



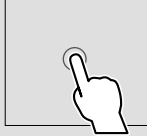


## Touch screen operations

To perform operations on the screen, you need to touch, touch and hold, flick or swipe to select an item, display setting menu screen or to change the page, etc.

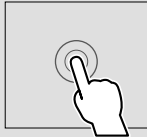
### ● Touch

Touch the screen gently to select an item on the screen.



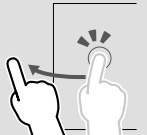
### ● Touch and hold

Touch the screen and keep your finger in place until the display changes or a message is displayed.



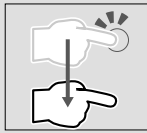
### ● Flick

Slide your finger quickly to the left or right on the screen to change the page. You can scroll the list screen by flicking the screen up/down.



### ● Swipe

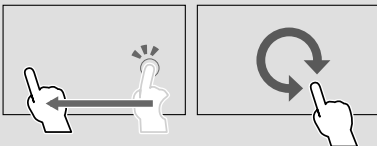
Slide your finger up or down on the screen to scroll the screen.



### Monitor Touch Control:

You can also control playback by moving your finger on the touch panel as follows (for some sources, the gesture control is not available).

- Sliding the finger towards up/down: Functions same as pressing **+** / **-** (Media). Tuner Preset broadcast stations are switched.
- Sliding the finger towards left/right: Functions same as pressing **◀◀** / **▶▶**.
- Moving your finger clockwise or counter-clockwise: increases/decreases the volume.



## HOME screen descriptions

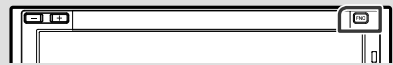
Most functions can be performed from the HOME screen.



- |   |   |
|---|---|
| 1 | • Short-cut playback source icons ( <b>P.11</b> )   |
| 2 | • Current source information.<br>• Touch to display the control screen of current source.   |
| 3 | • Widget<br>– You can change the widget by touching <b>◀/▶</b> .<br>– Touch the widget to display the detailed screen.  |
| 4 | • Displays the SETUP Menu screen. ( <b>P.43</b> )   |
| 5 | • Displays the source selection screen. ( <b>P.10</b> )   |
| 6 | • Displays the Hands Free screen. ( <b>P.35</b> )<br>• When connecting as Apple CarPlay or Android Auto, it works as a phone provided in Apple CarPlay or Android Auto. |

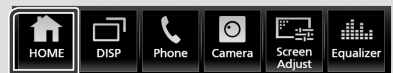
## Display the HOME

- 1 Press the **FNC** button.



- Popup menu appears.

- 2 Touch **HOME**.



- HOME screen appears.

## Source selection screen descriptions

You can display all playback sources and options on the source selection screen.



- |   |  |
|---|--|
| 1 | • Changes the playback source.<br>For playback sources, see <b>P.10</b> .                                |
| 2 | • Changes the page. (Touch  / )<br>You can also change the page by flicking left or right on the screen. |
| 3 | • Returns to previous screen.  |
| 4 | • Page indication  |
| 5 | • Displays the SETUP Menu screen. <b>(P.43)</b>  |

## Select the playback source

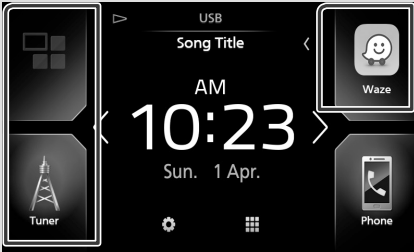
### 1 Touch .

From the screen, you can select the following sources and functions.

	• Switches to the Android Auto/ Apple CarPlay screen from the connected iPhone/Android device.*1 <b>(P.14)</b>
	• Switches to the Radio broadcast. <b>(P.25)</b>
	• Plays a Bluetooth audio player. <b>(P.33)</b>
	• Plays an iPod/iPhone. <b>(P.22)</b>
	• Plays files on a USB device. <b>(P.19)</b>
	• Switches to the Spotify. <b>(P.18)</b>
	• Switches to an external component connected to the AV-IN input terminal. <b>(P.41)</b>
	• Displays the WebLink screen. <b>(P.17)</b>
	• Displays the Waze screen. <b>(P.17)</b>
	• Displays the Audio screen. <b>(P.48)</b>
	• Turns off the AV source. <b>(P.11)</b>
	• Turn off the unit. <b>(P.6)</b>

\*1 When iPhone compatible with CarPlay is connected, **Apple CarPlay** is displayed. When an Android device compatible with Android Auto is connected, **Android Auto** is displayed.

### To select the playback source on the HOME screen




The 3 items displayed on the source selection screen as the large icons are shown on the HOME screen.

You can change items displayed on this area by customizing the source selection screen. (P.11)

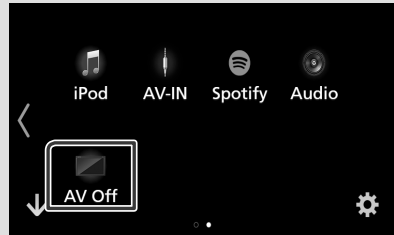
### To select the playback source on the source control screen



Display source selection buttons by touching  or flicking left or right on the source control screen, then select a playback source.


### To turn off the AV source

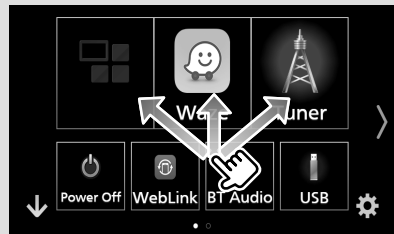
- 1 Touch .
- 2 Touch **AV Off**.



### Customize Short-cut buttons on HOME screen

You can arrange the position of the source icons as you like.

- 1 Touch .
- 2 Touch and hold the icon which you want to move to go into the customizing mode.
- 3 Drag it where you want to move.



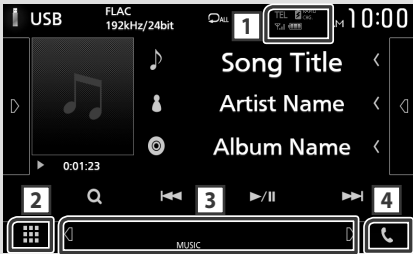
Changes the page



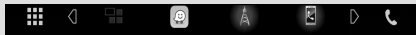
## Source control screen descriptions

There are some functions which can be operated from most screens.

### Indicators



### Short-cut buttons



- Connected Bluetooth device information.
- **RAPID CHG.**: Lights up when quick charging battery of the connected iPod/ iPhone/ Smartphone.



Displays all sources.

### 3 Secondary screen

- **◀/▶**: The Secondary screen changes every time you touch it. You can also change the Secondary screen by flicking left or right on the screen.
- Indicators: Displays the current source condition and so on.
  - **ATT**: The attenuator is active.
  - **DUAL**: The dual zone function is on.
  - **LOUD**: The loudness control function is on.
- Short-cut buttons: The source changes to the one you have set as a short-cut. For the short-cut setting, refer to **Customize Short-cut buttons on HOME screen (P.11)**.



Touch to display the Hands Free screen. **(P.35)**

When connecting as Apple CarPlay or Android Auto, it works as a phone provided in Apple CarPlay or Android Auto.

## Popup menu

1 Press the **FNC** button.



➤ Popup menu appears.

2 Touch to display the popup menu.



The contents of the menu are as follows.

	• Displays the HOME screen. (P.9)
	• Switches the screen. The screen switched to depends on the <b>DISP Key</b> setting in the <b>User Interface</b> screen. (P.44). • Touch and hold to turns the screen off.
	• Display the Hands Free screen. (P.35) When connecting as Apple CarPlay or Android Auto, it works as a phone provided in Apple CarPlay or Android Auto.
	• Displays the view camera. (P.40)
	• Displays the Screen Adjustment screen. (P.43)
	• Displays the Graphic Equalizer screen. (P.51)
	• Close the popup menu.
	• Short-cut buttons: The source changes to the one you have set as a short-cut. For the short-cut setting, refer to <b>Customize Short-cut buttons on HOME screen</b> (P.11).
	• Touch to display the Hands Free screen. (P.35) • When connecting as Apple CarPlay or Android Auto, it works as a phone provided in Apple CarPlay or Android Auto.

## List screen

There are some common function keys in the list screens of most sources.



Displays list type selection window.



Displays music/movie file list.



Scrolls the displayed text.



Keys with various functions are displayed here.

- **Play**: Plays all tracks in the folder containing the current track.
- **A-Z**: Jump to the letter you entered (alphabet search).
- **Top** **Up**: Moves to the upper hierarchy.



You can change the page to display more items by pressing .

- : Displays the top or bottom page.



Returns to previous screen.

### NOTE

- Buttons which cannot be activated from the list screen are not displayed.

# APPS—Android Auto™/Apple CarPlay

## Apple CarPlay Operation

CarPlay is a smarter, safer way to use your iPhone in the car. CarPlay takes the things you want to do with iPhone while driving and displays them on the screen of the product. You can get directions, make calls, send and receive messages, and listen to the music from iPhone while driving. You can also use Siri voice control to make it easier to operate iPhone.

For details about CarPlay, visit <https://ssl.apple.com/ios/carplay/>.

### Compatible iPhone devices

You can use CarPlay with the following iPhone models.

- iPhone 7 Plus
- iPhone 6 Plus
- iPhone 7
- iPhone 6
- iPhone SE
- iPhone 5s
- iPhone 6s Plus
- iPhone 5c
- iPhone 6s
- iPhone 5

## Preparation

### 1 Connect iPhone using KS-U62 via USB (Black) terminal. (P.64)

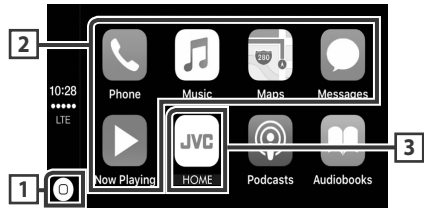
When iPhone compatible with CarPlay is connected to the USB (Black) terminal, the Bluetooth Hands-Free phone currently connected is disconnected.

### 2 Unlock your iPhone.

## Operation buttons and available Apps on the home screen of CarPlay

You can use the Apps of the connected iPhone. The items displayed and the language used on the screen differ among the connected devices.

To enter CarPlay mode, touch **Apple CarPlay** icon in the source selection screen. (P.10)



### 1 Siri

- Displays the home screen of CarPlay.
- Touch and hold to activate Siri.


### 2 Application buttons

Starts the application.

### 3 HOME

Exits the CarPlay screen and displays the Home screen.

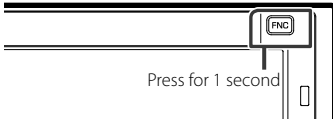
### To exit the CarPlay screen

- 1 Press the **FNC** button.
  - Popup menu appears.
- 2 Touch .
  - HOME screen appears.

## Use Siri

You can activate Siri.

- 1 Press the **FNC** button for 1 second.



- 2 Talk to Siri.

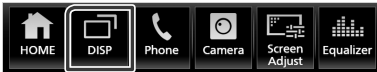
### To deactivate

- 1 Press the **FNC** button.

## Switch to the Apple CarPlay screen while listening to another source

- 1 Press the **FNC** button.  
 > Popup menu appears.

- 2 Touch **DISP**.



### NOTE

- This operation is available when **DISP Key** is set to **Mirroring** in the **User Interface** screen. (**P.44**)
- If sound is output using Apple CarPlay when the Apple CarPlay screen is displayed, the source is switched to Apple CarPlay.

## Android Auto™ Operation

Android Auto enables you to use functions of your Android device convenient for driving. You can easily access route guidance, make calls, listen to music, and access convenient functions on the Android device while driving. For details about Android Auto, visit <https://www.android.com/auto/> and <https://support.google.com/androidauto>.

### Compatible Android devices

You can use Android Auto with Android devices of Android version 5.0 (Lollipop) or later.

### NOTE

- Android Auto may not be available on all devices and is not available in all countries or regions.

## Preparation

- 1 Connect an Android device via USB terminal. (**P.63**)

To use the hands-free function, connect the Android device via Bluetooth.

When an Android device compatible with Android Auto is connected to the USB terminal, the device is connected via Bluetooth automatically, and the Bluetooth Hands-Free phone currently connected is disconnected.

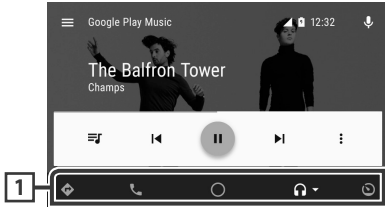
- 2 Unlock your Android device.

## Operation buttons and available Apps on the Android Auto screen

You can perform the operations of the Apps of the connected Android device.

The items displayed on the screen differ among the connected Android devices.


To enter Android Auto mode, touch **Android Auto** icon in the source selection screen. (P.10)



### 1 Application/information buttons

Starts the application or displays information.

### To exit the Android Auto screen

- 1 Press the **FNC** button.
  - Popup menu appears.
- 2 Touch .
- HOME screen appears.

## Using voice control

- 1 Press the **FNC** button for 1 second.

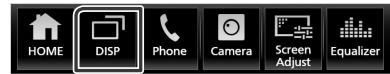


### To cancel

- 1 Press the **FNC** button.

## Switch to the Android Auto screen while listening to another source

- 1 Press the **FNC** button.
  - Popup menu appears.
- 2 Touch **DISP**.



### NOTE

- This operation is available when **DISP Key** is set to **Mirroring** in the **User Interface** screen. (P.44)
- If sound is output using Android Auto when the Android Auto screen is displayed, the source is switched to Android Auto.



## WebLink™/Waze Operation

You can display and control the App on the unit while your smartphone is connected to the USB terminal.

### Available Apps

You can use the following Apps on this unit. Install the Apps on your smartphone beforehand.

#### WebLink™

WebLink™ enables you to use the following Apps with the unit.

- Media player
- Waze
- Yelp
- YouTube
- OpenWeatherMap

#### Waze

Waze is the world's largest community based traffic and navigation App. Join other drivers in your area who share real-time traffic and road info, saving everyone time and gas money on their daily commute.

- To use Waze on the unit, you need to install WebLink™ and Waze on your smartphone beforehand.

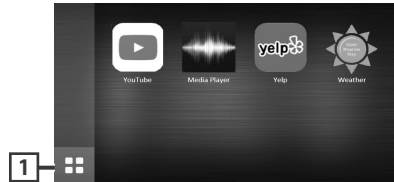
### 1 Connecting a smartphone

- Connect an Android device via USB terminal. **(P.63)**
- Connect iPhone using KS-U62 via USB (Black) terminal. **(P.64)**
- When the smartphone is connected to the unit, a confirmation message to communicate each other appears on the smartphone. Touch **Allow** to establish connection, or **Ignore** to cancel the connection.
- You can check the connection status on the WebLink™ screen on your smartphone.

### Operation buttons and available Apps on the App screen

To enter WebLink™ or Waze mode, touch **WebLink** or **Waze** icon in the source selection screen. **(P.10)**

WebLink source screen



Displays the main menu of the “WebLink” source screen.



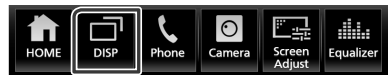
Returns to the previous screen.

### 2 Operate on your smartphone.

- When you are asked to communicate between your smartphone and the unit, touch **Allow** to proceed.

### Switching to the App screen while listening to the another source

- 1 Press the **FNC** button.
  - Popup menu appears.
- 2 Touch **DISP**.



#### NOTE

- This operation is available when **DISP Key** is set to **Mirroring** in the **User Interface** screen. **(P.44)**
- If sound is output using WebLink when the App screen is displayed, the source is switched to WebLink.

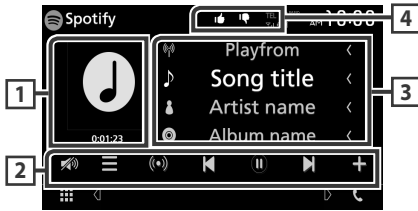
## Spotify Operation

You can listen to the Spotify on this unit by controlling the application installed in the iPhone or Android.

To enter Spotify source, touch **Spotify** icon in the source selection screen. (P.10)

### Preparation

- Install the latest version of the Spotify application "Spotify" on your iPhone or Android.
- iPhone:** Search for "Spotify" in the Apple App Store to find and install the most current version.
- Android:** Search for "Spotify" in Google play to find and install the most current version.
- iPhones are connected on either USB or Bluetooth.
- Android devices are connected on Bluetooth.
- To connect a smartphone via Bluetooth, register it as the Bluetooth device and do the App (SPP) profile setting of the connection beforehand. See **Register the Bluetooth device (P.30)** and **Connect the Bluetooth device (P.32)**.



### 1 Artwork/ Playing time

- The picture data is displayed if available from current content.
- For confirmation of play time.

### 2 Operation keys

- : Displays the Menu screen
- : New radio station that relates to the artist of the currently playing song is selected and playback starts.
- , : Skips the current song.
- : Plays or pauses the content of the current station.
- : Saves currently playing song to My Music.
- : Touch to attenuates/restores the sound.

### 3 Content information

Displays the information of the current content being played.



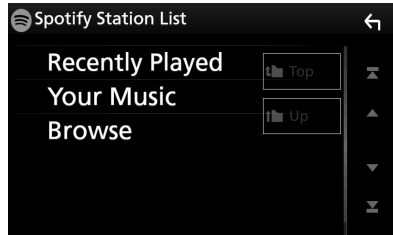
- : Thumbs down to the current contents and skip to the next contents.
- : Registers the current contents as favorite content.
- : Repeats the current song.
- : Randomly plays all song in current playlist.

## Selecting a track

### 1 Touch .

- Menu screen appears.

### 2 Select the list type, then select a desired item.



#### ■ Selects the category and station

Touch the category and station name in the list.

#### ■ Top

Returns to the first hierarchy of the list.

#### ■ Up

Returns to the previous list.

## About Spotify®

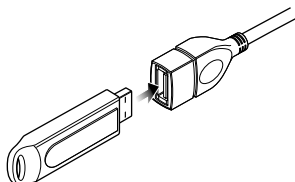
### Note

- Ensure you are logged in to your smartphone application. If you do not have an Spotify account, you can create one for free from your smartphone or at [www.spotify.com](http://www.spotify.com).
- Because Spotify 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 Spotify cannot be operated from this unit.
- For issues using the application, contact Spotify at [www.spotify.com](http://www.spotify.com).
- Establish an Internet connection.

# USB

## Connecting a USB device

- 1 Connect the USB device with the USB cable. (P.63)



- 2 Press the **FNC** button.
  - ▶ Popup menu appears.
- 3 Touch .
  - ▶ HOME screen appears.
- 4 Touch .
- 5 Touch **USB**. (P.10)

### Disconnect the USB device

- 1 Press the **FNC** button.
  - ▶ Popup menu appears.
- 2 Touch .
  - ▶ HOME screen appears.
- 3 Touch .
- 4 Touch a source other than **USB**.
- 5 Detach the USB device.

### Usable USB device

You can use a mass-storage-class USB device on this unit.

The word "USB device" appearing in this manual indicates a flash memory device.

#### ● About file system

The file system should be the one of the following.

- FAT16
- FAT32
- exFAT
- NTFS

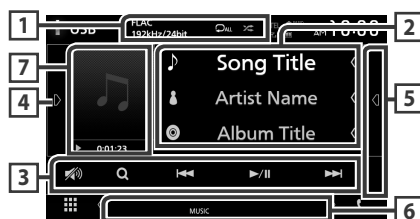
### NOTE

- Install the USB device in the place where it will not affect safe driving.
- You cannot connect a USB device via a USB hub and Multi Card Reader.
- Take backups of the audio files used with this unit. The files can be erased depending on the operating conditions of the USB device. We shall have no compensation for any damage arising from any erased data.

## USB Basic Operation

Most functions can be controlled from the source control screen and playback screen.

### Control screen



### Open the drawer



### 1 CODEC / /

- When a high-resolution source is played, its format information is displayed.
- : Repeats the current track/folder. Each time you touch the key, repeat mode switches in the following sequence; File repeat () , Folder repeat () , Repeat all ()
- : Randomly plays all tracks in current folder. Each time you touch the key, random mode switches in the following sequence; File random () , Random off ()

**2 Track information**

Displays the information of the current file.  
Only a file name and a folder name are displayed if there is no tag information.

**3 Operation keys**

- **Q** : Searches track/file. For details on search operation, see **Search Operation (P.21)**.
- **◀◀ ▶▶** : Searches the previous/next track/file.  
Touch and hold to fast forward or fast backward.
- **▶||** : Plays or pauses.
- **🔊** : Touch to attenuates/restores the sound.

**4 Function panel**

Touch on the left side of the screen to display the function panel. Touch again to close the panel.

- **[-] [+]** : Searches previous/next folder.
- **USB DEVICE CHANGE**  
Switches to another USB device when two USB devices are connected.

**5 Content list**

- Touch on the right side of the screen to display the Content list. Touch again to close the list.
- Displays the playing list. When you touch a track/file name on the list, playback will start.

**6 Indicator Items**

- **VIDEO**: Identifies the video file.
- **MUSIC**: Identifies the music file.

**7 Artwork/ Play mode indicator/ Playing time**

The jacket of the currently playing file is displayed.

- **▶, ▶▶, etc.**: Current play mode indicator  
The meanings of each icon are as follows;  
▶ (play), ▶▶ (fast forward),  
◀◀ (fast backward), || (pause).

Video screen



**8 Searching file area (Video file only)**

Touch to search the next/previous file.

**9 Key display area (Video file only)**

Touch to display the control screen.

## Search Operation

You can search music or video files by the following operations.

- 1 Touch **Q**.
- 2 Touch **▼**.



- 3 Select the list type.



### NOTE

- For operations in the list screen, see **List screen (P.13)**.

## Category search

You can search a file by selecting category.

- 1 Touch **Category List**.
- 2 Select whether you search by audio files or video files .
- 3 Touch the desired category.



- The list corresponding to your selection appears.

- 4 Touch to select desired item in the list. Repeat this step until you find the desired file.

## Link search

You can search a file of same artist/album/genre as the current track.

- 1 Touch **Link Search**.
- 2 Touch the desired tag type. You can select from artists, albums and genres.



- The list corresponding to your selection appears.

- 3 Touch desired item from the content list.

## Folder search

You can search a file according to hierarchy.

- 1 Touch **Folder List**.
- 2 Touch the desired folder.



When you touch a folder its contents are displayed.

- 3 Touch to select desired item in the list. Repeat this step until you find the desired file.

# iPod/iPhone

## Preparation

### Connectable iPod/iPhone

The following models can be connected to this unit.

Made for

- iPhone 7 Plus
- iPhone 7
- iPhone SE
- iPhone 6s Plus
- iPhone 6s
- iPhone 6 Plus
- iPhone 6
- iPhone 5s
- iPhone 5c
- iPhone 5
- iPod touch (6th generation)
- iPod touch (5th generation)

#### NOTE

- By connecting your iPod/iPhone to this unit with an optional accessory iPod connection cable KS-U62, you can supply power to your iPod/iPhone as well as charge it while playing music. However, the power of this unit must be on.
- If you start playback after connecting the iPod, the music that has been played by the iPod is played first.

### Connect iPod/iPhone

#### Wired connection

##### Preparation

- Connect an iPod/iPhone with the KS-U62 (optional accessory) while CarPlay is not connected.
- With a CarPlay-capable iPhone, turn off CarPlay by operating the iPhone at functional setup before connecting iPhone. For details of the setup method, contact the manufacturer of the terminal.
- Plug the iPod/iPhone into the gray USB terminal with the KS-U62 (optional accessory).
- Only one iPod/iPhone can be connected.

#### 1 Connect the iPod/iPhone using KS-U62. (P.64)

#### 2 Press the **FNC** button. ➤ Popup menu appears.

#### 3 Touch . ➤ HOME screen appears.

#### 4 Touch .

#### 5 Touch **iPod**. (P.10)

#### ● To disconnect the iPod/iPhone connected with the cable:

#### 1 Detach the iPod/iPhone.

#### Bluetooth connection

Pair the iPhone through Bluetooth.

##### Preparation

- To connect an iPhone via Bluetooth, register it as the Bluetooth device and do the profile setting of the connection beforehand. See **Register the Bluetooth device (P.30)** and **Connect the Bluetooth device (P.32)**.
- Connect an iPhone on Bluetooth while CarPlay and an iPod/iPhone are not connected on USB.

## iPod/iPhone Basic Operation

### Control screen



### Open the drawer



- : Repeats the current track/album. Each time you touch the key, repeat mode switches in the following sequence; Song repeat ( ), All songs repeat ( )
- : Randomly plays all tracks in current album. Each time you touch the key, random mode switches in the following sequence; Song random ( ), Random off ( )

### 2 Track information

- Displays the information of the current file.
- Touch to display the category list screen. See **Category search (P.24)**.

### 3 Operation keys

- : Searches track/file. For details on search operation, see **Search Operation (P.24)**.
- : Searches the previous/next track/file. Touch and hold to fast forward or fast backward.
- : Plays or pauses.
- : Touch to attenuates/restores the sound.

### 4 Content list

- Touch on the right side of the screen to display the Content list. Touch again to close the list.
- Displays the playing list. When you touch a track/file name on the list, playback will start.

### 5 Indicator Items

- **MUSIC**: Identifies the music file.

### 6 Artwork/ Play mode indicator/ Playing time

The jacket of the currently playing file is displayed.

- , etc.: Current play mode indicator  
The meanings of each icon are as follows;  
 (play), (fast forward),  
 (fast backward), (pause).

## Search Operation

You can search music files by the following operations.

1 Touch **Q**.

2 Touch **▼**.



3 Select the list type.



### NOTE

- For operations in the list screen, see [List screen \(P.13\)](#).

## Category search

You can search a file by selecting category.

1 Touch **Category List**.

2 Touch the desired category.



- The list corresponding to your selection appears.

3 Touch to select desired item in the list.  
Repeat this step until you find the desired file.

## Link search

You can search a file of same artist/album/genre/composer as the current track.

1 Touch **Link Search**.

2 Touch the desired tag type. You can select from artists, albums, genres and composers.



- The list corresponding to your selection appears.

3 Touch desired item from the content list.

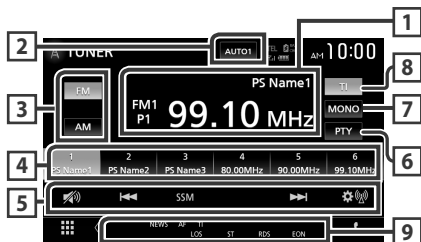


# Tuner

## Tuner Basic Operation

Most functions can be controlled from the source control screen.

To enter Tuner source, touch **TUNER** icon in the source selection screen. (P.10)



### 1 Information display

Displays the information of the current station:  
Frequency, PS name

**P#**: Preset number

### 2 Seek mode

Switches the seek mode in the following sequence; **AUTO1**, **AUTO2**, **MANUAL**.

- **AUTO1**: Tunes in a station with good reception automatically.
- **AUTO2**: Tunes in stations in memory one after another.
- **MANUAL**: Switches to the next frequency manually.

### 3 Band button

Switches the band (FM1/ FM2/ FM3, AM).

### 4 Preset key

Recalls the memorized station.

When touched for 2 seconds, stores the current receiving station in memory.

### 5 Operation keys

- **◀▶**: Tunes in a station. The method of frequency switching can be changed (see 2 in table).
- **SSM**: Presets stations automatically. For details, see **Auto memory (P.26)**.
- **⚙️**: Displays the TUNER SETUP screen. For details, see **Tuner Setup (P.27)**.
- **🔊**: Touch to attenuates/restores the sound.

### 6 PTY (FM only)

Searches a program by setting program type. For details, see **Search by program type (P.26)**.

### 7 MONO (FM only)

Select the Monaural reception.

### 8 TI (FM only)

Sets the traffic information mode on. For details, see **Traffic Information (P.27)**.

### 9 Indicator Items

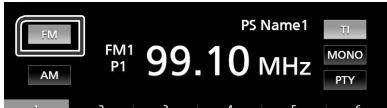
- **ST**: A stereo broadcast is being received.
- **MONO**: The forced monaural function is on.
- **AF**: The AF search function is on.
- **EON**: The Radio Data System station is sending EON.
- **LOS**: The Local Seek function is on.
- **NEWS**: News bulletin interruption is in progress.
- **RDS**: Indicates the state of the Radio Data System station when the AF function is on.
  - White: Radio Data System is being received.
  - Orange: Radio Data System is not being received.
- **TI**: Indicates the reception state of traffic information.
  - White: TP is being received.
  - Orange: TP is not being received.

## Memory Operation

### Auto memory (FM only)

You can store stations with good reception in memory automatically.

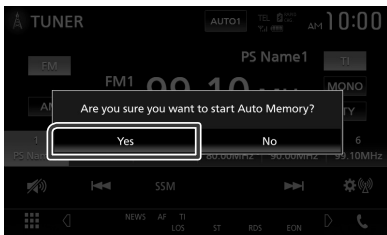
#### 1 Touch FM.



#### 2 Touch SSM.



#### 3 Touch Yes.



➤ Auto memory starts.

### Manual memory

You can store the current receiving station in memory.

- 1 Touch desired band key.
- 2 Select a station you wish to store in memory.
- 3 Touch # (#:1-6) in which you want to store the station for 2 seconds until a beep sounds.

## Selecting Operation

### Preset select

You can list and select memorized station.

#### 1 Select a station from the list.



### Search by program type (FM only)

You can tune to a station with a specific program type when listening to FM.

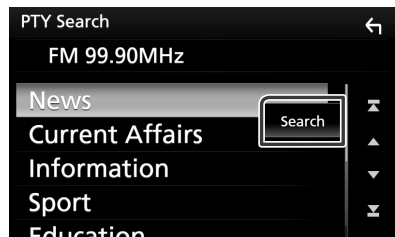
#### 1 Touch PTY.



➤ PTY Search screen appears.

#### 2 Select a program type from the list.

#### 3 Touch Search.



You can search a station of the selected program type.

## Traffic Information (FM only)

You can listen and watch the traffic information automatically when a traffic bulletin starts. However, this feature requires a Radio Data System that includes the TI information.

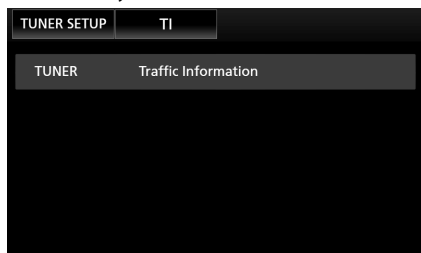
### 1 Touch TI.



➤ Traffic information mode is set.

### When the traffic bulletin starts

The Traffic Information screen appears automatically.



#### NOTE

- It is necessary to have Traffic Information function set to on in order to have the Traffic Information screen appear automatically.
- The volume setting during reception of traffic information is automatically stored. The next time the traffic information is received, this unit recalls the volume setting automatically.

## Tuner Setup

You can set tuner related parameters.

### 1 Touch .



➤ Radio SETUP screen appears.

### 2 Set each item as follows.

#### ■ NEWS

Sets a news bulletin interrupt time. Default is "OFF".

#### ■ AF

When station reception is poor, automatically switches to the station that is broadcasting the same program over the same Radio Data System network. Default is "OFF".

#### ■ Regional

Sets whether to switch to the station only in the specific region using the "AF" control. Default is "OFF".

#### ■ LO.S (FM only)

Turns the Local Seek function on or off.

#### ■ Auto TP Seek

When traffic information station reception is poor, automatically searches for a station that can be received better. Default is "ON".

#### ■ Language Select

Selects a display language for the PTY function.

#### ■ Aerial Control

Allows you to turn off the Radio Data System function to prevent the motor-driven antenna from extending. Default is "ON".

## **Tuner**

### ■ **Area Setting (KW-M740BT)**

The tuner channel interval changes depending on the area you use this unit.

#### **For Oceania sales area**

**Australia** (Default): Select this when using in Australia countries. FM/AM intervals are set to 50 kHz/9 kHz.

**US**: Select this when using in North/Central/South America. FM/AM intervals are set to 200 kHz/10 kHz.

**Europe**: Select this when using in any other areas. FM/AM intervals are set to 50 kHz/9 kHz.

#### **Outside oceania area**

**Others** (Default): FM/AM intervals are set to 50 kHz/9 kHz.

**US**: Select this when using in North/Central/South America. FM/AM intervals are set to 200 kHz/10 kHz.

# Bluetooth Control

Using the Bluetooth function, various functions can be used: listening to the audio file, making/receiving a call.

## Information for using Bluetooth® devices



Bluetooth is a short-range wireless radio communication technology for mobile devices such as mobile phones, portable PCs, and other devices.

Bluetooth devices can be connected without cables and communicate with each other.

### NOTE

- While driving, do not perform complicated operations such as dialing numbers, using the phone book, etc. When you perform these operations, stop your car in a safe place.
- Some Bluetooth devices may not connect to this unit depending on the Bluetooth version of the device.
- This unit may not work for some Bluetooth devices.
- Connecting conditions may vary depending on your environment.
- For some Bluetooth devices, the device is disconnected when the unit is turned off.

## About the cell-phone and Bluetooth audio player

This unit conforms to the following Bluetooth specifications:

### Version

Bluetooth Ver. 3.0

### Profile

#### Cell-phone:

HFP (V1.6) (Hands Free Profile)

SPP (Serial Port Profile)

PBAP (Phonebook Access Profile)

#### Audio player:

A2DP (Advanced Audio Distribution Profile)

AVRCP (V1.5) (Audio/Video Remote Control Profile)

### Sound codec

SBC, AAC

### NOTE

- The units supporting the Bluetooth function have been certified for conformity with the Bluetooth Standard following the procedure prescribed by Bluetooth SIG.
- However, it may be impossible for such units to communicate with your cell-phone depending on its type.

## Register the Bluetooth device

It is necessary to register the Bluetooth audio player or cell-phone to this unit before using the Bluetooth function.

You can register up to 10 Bluetooth devices.

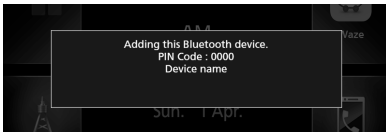
### NOTE

- Up to 10 Bluetooth devices can be registered. If an attempt is made to register the 11th Bluetooth device, the Bluetooth device connected on the earliest date will be deleted to register the 11th one.
- This unit is compatible with the Apple Easy Pairing function. When an iPod touch or iPhone is connected to this unit, an authentication dialog appears. Performing operation for authentication on this unit or iOS smartphone registers the smartphone as a Bluetooth device.

Follow the step 1, 2 and 3 for registration.

### Step 1: Registration the Bluetooth device

- 1 Search the unit ("KW-M\*\*\*\*") from your smartphone/cell-phone.**
- 2 Input the PIN Code in your smartphone/cell-phone.**  
PIN Code is set to "0000" as the default.



### ● SSP (Secure Simple Pairing of Bluetooth 2.1 or later)

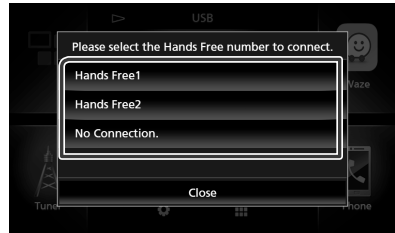
- 1 Search the unit ("KW-M\*\*\*\*") from your smartphone/cell-phone.**
- 2 Confirm the request both on the smartphone/cell-phone and the unit.**



### Step 2: Connection settings

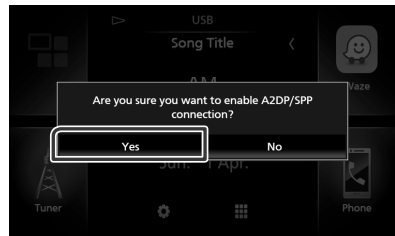
- When the HFP profile is supported, Hands Free 1 or 2 is automatically selected for connection, proceeding to the next step.
  - When the A2DP or SPP profile is supported, the cell-phone or audio player is automatically connected, proceeding to the next step.
- If cell-phones and/or audio players have already been connected, a selection screen appears.

#### 1 Select the hands-free number to connect.



#### 2 Select if you want to use the audio player app in your smartphone over A2DP, and the other apps in your smartphone over SPP.

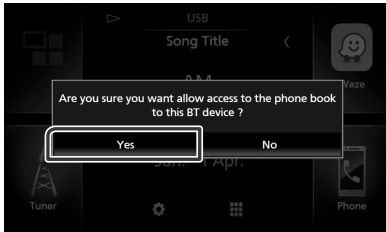
This message appears if the device supports BT audio (A2DP) or smartphone link (SPP).



### Step 3: Phonebook transfer

#### 1 Select if you want to transfer your phonebook data.

This message appears if the device supports PBAP.



The phonebook data transmission starts. Some smartphones may request permission to access the data. The data transmission will start with your permission.



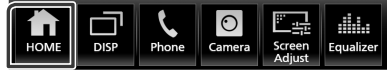
When the data transmission and connection have completed, the Bluetooth connection icon appears on the screen.

## Bluetooth Setup

#### 1 Press the **FNC** button.

➤ Pop up menu appears.

#### 2 Touch .



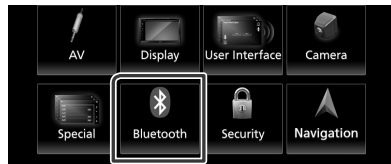
➤ HOME screen appears.

#### 3 Touch .



➤ SETUP Menu screen appears.

#### 4 Touch **Bluetooth**.



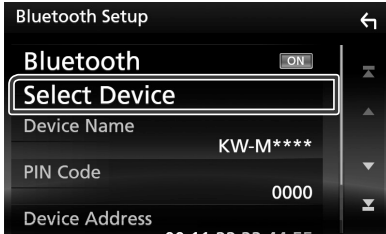
➤ Bluetooth SETUP screen appears.

See the following section for each setting.

- Connect the Bluetooth device (**P.32**)
- Change the PIN Code (**P.33**)
- Change the device name (**P.33**)

## Connect the Bluetooth device

- 1 Touch **Select Device** in the Bluetooth SETUP screen.



- 2 Touch the device name you want to connect.

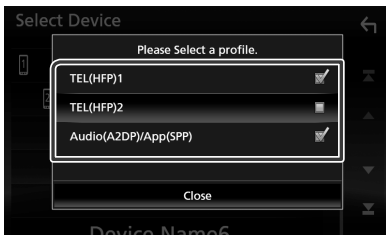


➤ Profile select screen appears.

### NOTE

- If the icon is lighted, it means that the unit will use that device.

- 3 Set each profile as follows.



#### ■ TEL (HFP) 1, TEL (HFP) 2

The device is connected with the unit as hands-free phone 1 or 2.

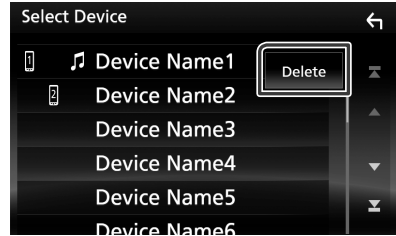
#### ■ Audio (A2DP)/App (SPP)

Set to interwork with an application installed in a smartphone or to use as an audio player.

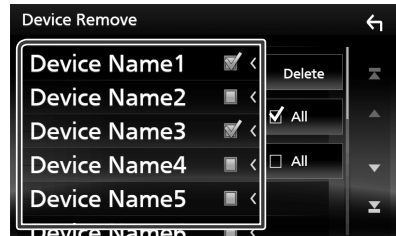
- 4 Touch **Close**.

## To delete the registered Bluetooth device

- 1 Touch **Delete**.



- 2 Touch the device name to check.



#### ■ All

Select all Bluetooth device.

#### ■ All

Erases all check marks.

- 3 Touch **Delete**.

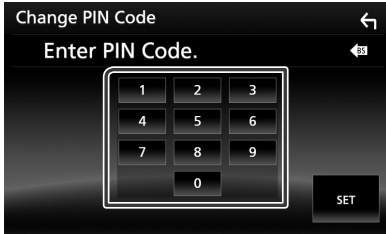
➤ Confirmation message appears.

- 4 Touch **Yes**.



## Change the PIN Code

- 1 Touch **PIN Code** in the Bluetooth SETUP screen.
  - PIN Code Set screen appears.
- 2 Touch and hold **BS**.
- 3 Input the PIN Code.



- 4 Touch **SET**.

## Change the device name

- 1 Touch **Device Name** in the Bluetooth SETUP screen.
  - Change Device Name screen appears.
- 2 Touch and hold **BS**.
- 3 Input the device name.



- 4 Touch **Enter**.

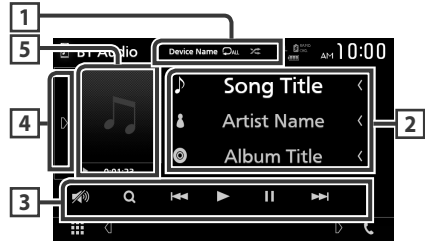
## Playing Bluetooth Audio Device

Most function can be controlled from the source control screen.

To enter Bluetooth source, touch **BT Audio** icon in the source selection screen. (P.10)

## Bluetooth basic operation

### Control screen



### 1 Device name/ / /

- Connected device name.
- : Repeats the current track/folder. Each time you touch the key, repeat mode switches in the following sequence; File repeat ( ), Folder repeat ( ), All songs repeat ( ), Repeat off ( )
- : Randomly plays all tracks in current folder. Each time you touch the key, random mode switches in the following sequence; Folder random ( ), All random ( ), Random off ( )

### 2 Information display \*

Displays the name of the track information.

### 3 Operation keys \*

- : Searches file. See **File search (P.34)**.
- : Searches the previous/next content. Touch and hold to fast forward or fast backward.
- : Plays.
- : Pauses.
- : Touch to attenuates/restores the sound.

**4 Function panel**

Touch on the left side of the screen to display the function panel. Touch again to close the panel.

- **BT DEVICE CHANGE** : Selects the device to connect via Bluetooth audio (A2DP) or APP (SPP). See **Connect the Bluetooth audio (P.34)**.

**5 Play mode indicator/ Playing time**

▶, ||: Current play mode indicator

The meanings of each icon are as follows;

- ▶ (play), ▶▶ (fast forward), ◀◀ (fast backward), || (pause), ■ (stop).

\*These items appear only when the audio player which supports AVRCP profile is connected.

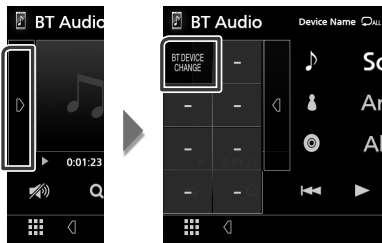
**NOTE**

- The operation buttons, indications and information displayed on the screen differ depending on the connected device.
- If the operation keys do not appear, operate from the player.
- Depending on your cell-phone or audio player, audio may be heard and controlled but text information may not appear.
- If the volume is too low, raise it on your cell-phone or audio player.

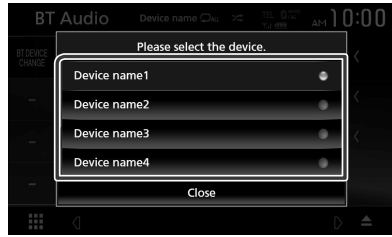
**Connect the Bluetooth audio**

Selects the device to connect via Bluetooth audio (A2DP) or APP (SPP).

- 1 Touch **BT DEVICE CHANGE** on the left side of the screen.



- 2 Touch the device name you want to connect.



- 3 Touch **Close**.

**File search**

- 1 Touch **Q**.
- 2 Touch the desired file or folder.



When you touch a folder its contents are displayed.

- 3 Touch desired item from the content list.  
▶ Playback starts.

**NOTE**

- For operations in the list screen, see **List screen (P.13)**.

## Using Hands-Free Unit

You can use telephone function by connecting the Bluetooth telephone to this unit.

### NOTE

- While Apple CarPlay or Android Auto is being connected, Bluetooth Hands-Free function and two Bluetooth devices connections cannot be used. Only Apple CarPlay or Android Auto Hands-Free function can be used.

## Make a call

### 1 Press the FNC button.



- Popup menu appears.

### 2 Touch .

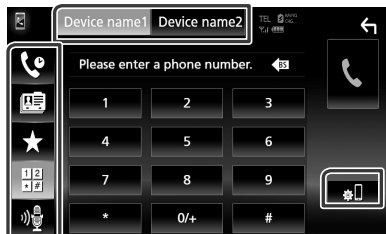







- Hands Free screen appears.

### NOTE

- If your mobile phone supports PBAP, you can display the phone book and call lists on the touch panel screen when the mobile phone is connected.
  - Phone book: up to 1000 entries
  - Up to 50 entries including dialed calls, received calls, and missed calls



### 3 Select a dialing method.



- : Call using call records
- : Call using the phonebook
- : Call using the preset number
- : Call by entering a phone number
- : Voice Recognition (**P.36**)

### ● Select the cell-phone to use

When you connect two cell-phones

- 1) Touch   to select the phone you want to use.

### ● Bluetooth SETUP

- 1) Touch .  
Bluetooth SETUP screen appears.

### NOTE

- The status icons such as battery and antenna displayed may differ from those displayed on the cell-phone.
- Setting the cell-phone in the private mode can disable the hands-free function.

## Call using call records

### 1 Touch .

### 2 Select the phone number from the list.



## Call by entering a phone number

### 1 Touch .


### 2 Enter a phone number with number keys.



### 3 Touch .



## Bluetooth Control

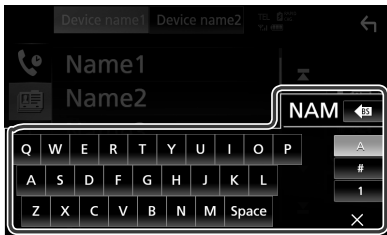
### Call using the preset number

- 1 Touch .
- 2 Touch the Name or phone number.



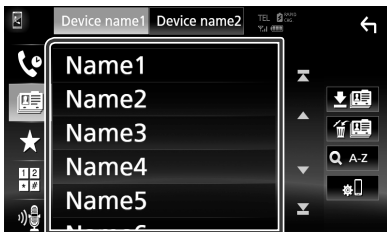
### Call using the phonebook

- 1 Touch .
- 2 Touch .
- 3 Select the initial.

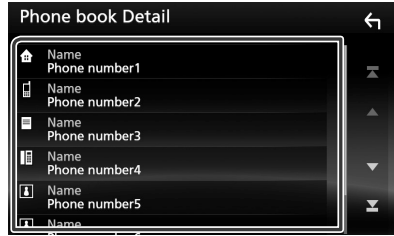


- Characters with no corresponding name will not appear.
- A first character with an accent character such as "ü" can be searched for with a non-accent character "u". A character with an accent character in a sentence cannot be searched.

- 4 Select the person you want to call from the list.



- 5 Select the phone number from the list.



#### NOTE

- You can set the list to arrange in the order of last name or first name. For details, see **Hands-Free Setup (P.39)**.

### Voice Recognition

You can access the voice recognition function of the cell-phone connected to this unit. You can search the cell-phone phonebook by voice. (The functionality depends on the cell-phone.)


- 1 Press the **FNC** button for 1 second.





- Voice Recognition screen appears.

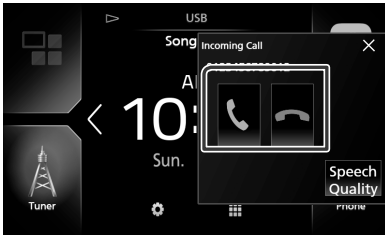
- 2 Start speaking.

#### NOTE

- You can use voice recognition function by touching  on the Hands Free screen.

## Receive a call

- 1 Touch  to answer a phone call or  to reject an incoming call.



### NOTE

- While monitoring the view camera, this screen does not appear even if a call comes in.

## To end call

- 1 While talking, touch .

## Operations during a call



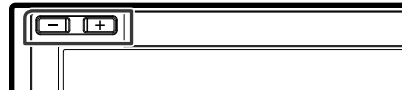
### ● Adjust the volume of your voice

- 1) Touch **Speech Quality**.
- 2) Touch ◀ or ▶ of **Microphone Level**.




### ● Adjust the receiver volume

Press the - or + button.



### ● Mute your voice



Touch  to mute or not to mute your voice.

### ● Output the dial tone


Touch **DTMF** to display the tone input screen.



You can send tones by touching desired keys on the screen.

### ● Switching the speaking voice output


Touching  /  each time switches the speaking voice output between cell-phone and speaker.

### ● Call-waiting

When you receive a call while talking on another call, you can answer the newly received call by touching . The current call is on hold.

Each time you touch , the caller will change. When you touch , the current call will end and switch to the call in hold.

### ● To close the Hands-Free popup screen

Touching × closes the Hands-Free popup screen. To display it again, touch  after pressing the **FNC** button.

## Bluetooth Control

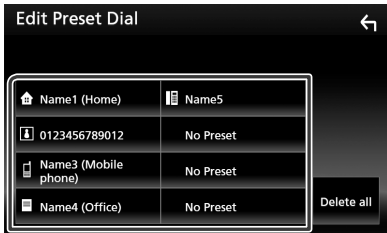
### Phone number preset

You can register frequently used phone numbers to this unit.

- 1 Touch .
- 2 Touch **Edit**.



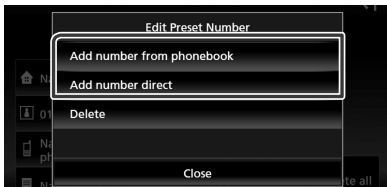
- 3 Select where to preset.



#### Delete all

To delete all preset numbers, touch **Delete all** and then touch **OK** on the confirmation screen.

- 4 Select how to preset.



#### Add number from phonebook

Select the number to preset by referring to "Call using the phonebook". See **Call using the phonebook (P.36)**.

#### Add number direct

Enter the telephone number directly and touch **SET**. See **Call by entering a phone number (P.35)**.

#### Delete

To delete the preset number, touch **Delete** and then touch **OK** on the confirmation screen.

### Phonebook transfer


You can transfer the phonebook in your Bluetooth smartphone via PBAP.

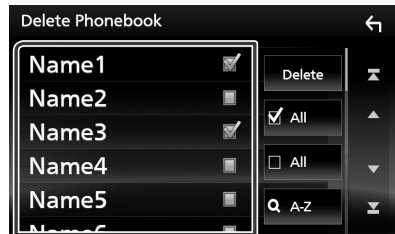
- 1 Touch .
- 2 Touch .



➤ The phonebook data transmission starts.

### Phonebook deletion

- 1 Touch .
- 2 Touch the name to check.



#### All

Checks all boxes.

#### All

Erases all check marks.

- 3 Touch **Delete**.  
➤ Confirmation message appears.
- 4 Touch **OK**.

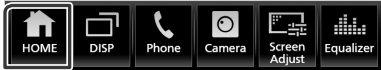
## Hands-Free Setup

You can perform various setup about handsfree function.

### 1 Press the **FNC** button.

➤ Popup menu appears.

### 2 Touch .



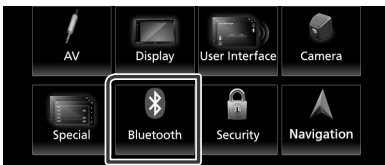
➤ HOME screen appears.

### 3 Touch .



➤ SETUP Menu screen appears.

### 4 Touch **Bluetooth**.

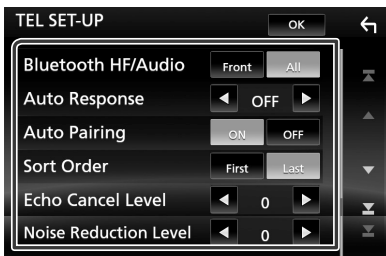


➤ Bluetooth SETUP screen appears.

### 5 Touch **TEL SETUP**.

➤ TEL SETUP screen appears.

### 6 Set each item as follows.



#### ■ **Bluetooth HF/Audio**

Select the speakers to output the sound from cell-phone (such as phone call voice and ringing tone) and Bluetooth audio player.

**Front**: Outputs from the front speakers.

**All** (Default): Outputs from all speakers.

#### ■ **Auto Response**\*

Sets an automatic response time to pick-up an incoming call.

**OFF** (Default): Automatic response is not available.

**1 / 5 / 10 / 15 / 20 / 25 / 30**: Set calling ring time (second).

#### ■ **Auto Pairing**

When set to "ON", the Apple Auto Pairing function is turned on to automatically register the iPod touch or iPhone connected to this unit.

**ON** (Default): Uses Apple Auto Pairing function.

**OFF**: Not uses Apple Auto Pairing function.

#### ■ **Sort Order**

Sets how to arrange the cell-phone phonebook.

**First**: Arranges in the order of first name.

**Last** (Default): Arranges in the order of last name.

#### ■ **Echo Cancel Level**

Adjusts the level of echo cancellation.

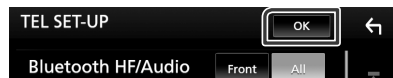
Default is "0".

#### ■ **Noise Reduction Level**

Reduces the noises generated by surrounding environment without changing the microphone volume. Use this setting when the voice of caller is not clear. Default is "0".

\* Either the time interval for automatic answer set on this unit or the time interval set on the cell-phone, whichever is shorter takes effect.

### 7 Touch **OK**.



# Other External Components

## View Camera

### NOTE

- To connect a camera, see **P.62**.
- To use a rear view camera, a REVERSE lead connection is required. **(P.61)**
- If **Rear Camera Interruption** is set to on, the camera screen is displayed when you shift the gear to the reverse (R) position.

### Display the camera screen

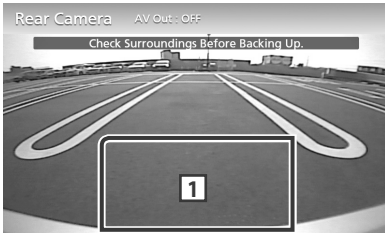
- 1 Press the **FNC** button.
  - Popup menu appears.
- 2 Touch **Camera**.



➤ View camera screen appears.

- 3 Adjust each item as follows.



To erase the caution message, touch the screen.



- 1 **Camera off**

Touch to exit the camera screen.

### Camera Setup

- 1 Press the **FNC** button.
  - Popup menu appears.
- 2 Touch .
- HOME screen appears.
- 3 Touch .
- SETUP Menu screen appears.
- 4 Touch **Camera**.



➤ Camera screen appears.

- 5 Set each item as follows.

#### ■ Rear Camera Interruption

**ON** (Default): Displays the picture from the rear view camera when you shift the gear to the reverse (R) position.

**OFF**: Select this when no camera is connected.

#### ■ Parking Guidelines

You can display parking guidelines to enable easier parking when you shift the gear to the reverse (R) position.

Default is "ON".

#### ■ Guidelines SETUP


If you select **ON** for **Parking Guidelines**, adjust the parking guidelines. See **To adjust the parking guidelines (P.41)**.

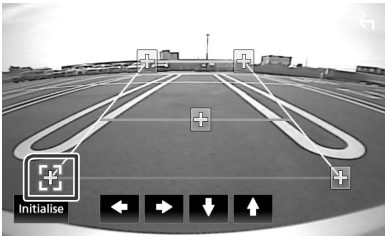


## To adjust the parking guidelines

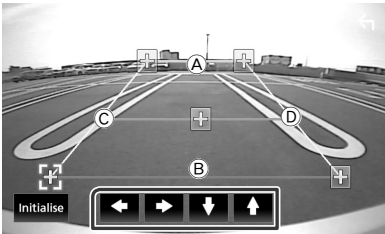
### NOTE

- Install the rear view camera in the appropriate position according to the instructions supplied with the rear view camera.
- When adjusting the parking guidelines, make sure to use the parking brake to prevent the car from moving.

- 1 Touch **ON of Parking Guidelines** in the Camera screen. (P.40)
- 2 Touch **Guidelines SETUP** in the Camera screen.
- 3 Adjust the parking guidelines by selecting the  mark.




- 4 Adjusting the position of the selected mark.





Make sure that (A) and (B) are horizontally parallel, and that (C) and (D) are the same length.

### NOTE

- Touch **Initialise** and after touch **Yes** to set all the  marks to the initial default position.

## External audio/video players—AV-IN

- 1 Connect an external component to the AV-IN input terminal. (P.62)
- 2 Press the **FNC** button.
  - Popup menu appears.
- 3 Touch .
  - HOME screen appears.
- 4 Touch .
- 5 Select **AV-IN** as the source. (P.10)
- 6 Turn on the connected component and start playing the source.

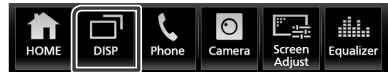
## Using the external navigation unit (outside oceania area)

You can connect a navigation unit (commercially available) to the navigation input terminal so that you can view the navigation screen. (P.62)

The navigation guidance comes out of the front speakers even when you are listening to an audio source.

### Display the navigation screen

- 1 Press the **FNC** button.
  - Popup menu appears.
- 2 Touch **DISP.**





- The navigation screen appears.

### NOTE

- Touch  on the popup menu screen to navigation screen. This operation is available when **DISP Key** is set to **NAV** in the **User Interface** screen. (P.44)

## Other External Components

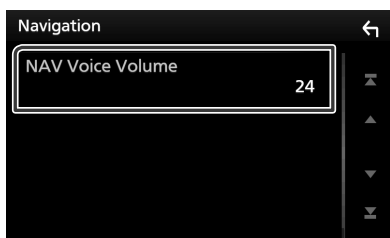
### Navigation Setup

- 1 Press the **FNC** button.
  - Popup menu appears.
- 2 Touch .
- 3 Touch .
- 4 Touch **Navigation**.



➤ Navigation SETUP screen appears.

- 5 Set each item as follows.



#### ■ NAV Voice Volume



Adjusts the volume for voice guidance of the navigation system. Default is "24".

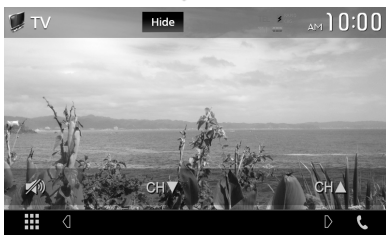
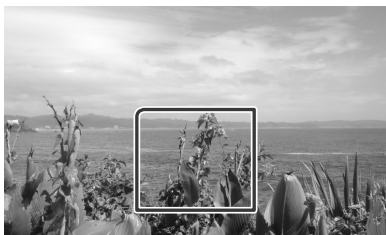
### TV tuner

You can connect the TV tuner (commercially available) with this unit and watch TV.

#### Preparation

- When you use TV control function, connect the TV tuner (commercially available) and set 3rd Party TV Tuner Control in **AV Setup (P.47)** to ON.
- The TV tuner can be controlled with its supplied remote control through the remote sensor on the front panel of this unit.

- 1 Press the **FNC** button.
  - Popup menu appears.
- 2 Touch .
- 3 Touch .
- 4 Select **AV-IN** as the source. (P.10)
- 5 Touch Key display area.



#### ■ Hides the indicators and buttons.

Touch **Hide**.

#### ■ Change the channel.

Touch **CH▲**, **CH▼**.

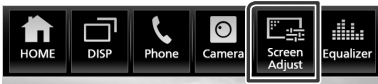
# Setting Up

## Monitor Screen Setup

You can adjust image quality in video, menu screen, etc.

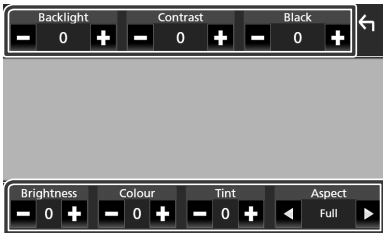
- 1 Press the **FNC** button.
  - Popup menu appears.

- 2 Touch **Screen Adjust**.



- Screen Control screen appears.

- 3 Adjust each item as follows.



- **Backlight / Contrast / Black / Brightness / Colour / Tint**

Adjusts each item.

- **Aspect**

Select screen mode.

**Full**: Changes the aspect ratio of video and displays fully on the screen.

**Normal**: Displays with 4:3 ratio.

**Auto**:

Displays video fully on vertical or horizontal with no ratio change.

### NOTE

- Adjusting items are different depending on the current source.

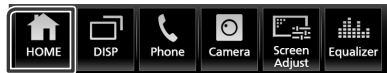
## System Setup

### NOTE

- Each operation in this section can be started from the multi function menu.

- 1 Press the **FNC** button.
  - Popup menu appears.

- 2 Touch **HOME**.



- HOME screen appears.

- 3 Touch **Settings**.





See the following section for each setting.

- Set up AV ([P.47](#))
- Set up display ([P.46](#))
- Set up the user interface ([P.44](#))
- Set up camera ([P.40](#))
- Set up special ([P.45](#))
- Set up Bluetooth ([P.31](#))
- Set up security ([P.7](#))

## User Interface Setup

You can setup user interface parameters.

- 1 Press the **FNC** button.
  - Popup menu appears.
- 2 Touch .
  - HOME screen appears.
- 3 Touch .
  - SETUP screen appears.
- 4 Touch **User Interface**.



➤ User Interface screen appears.

- 5 Set each item as follows.

■ **Steering Remote Controller**

Select the desired function in the steering remote controller. See *Learning function of steering remote (P.45)*.

■ **Beep**

Turns the key touch tone on or off. Default is "ON".

■ **Language Select**

Selects a language.

■ **Touch Panel Adjust**

Adjust the sensing position of touch panel. (P.44)

■ **Clock**

**GPS-SYNC** (Default): Synchronizes the clock time with the GPS.

**Manual**: Sets the clock manually


■ **Time Zone**

Select the time zone.

■ **Clock Adjust**

If you select **Manual** for Clock, adjust the date and time manually. (P.44)


■ **DISP Key**

Select the source screen displayed when  on the popup menu screen is pressed.

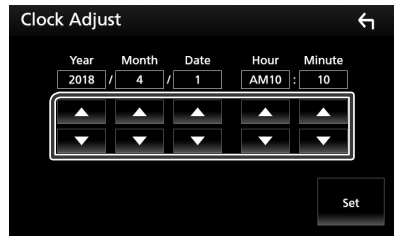
**NAV**: Switches to the navigation screen from the connected navigation unit by pressing the button. (P.41) (Not-covered areas: Oceania)

**Mirroring** (Default): Switches to the App screen from the connected iPod touch/iPhone/Android device or Apple CarPlay screen from the connected iPhone by pressing the button. (P.14)

**OFF**: Displays the control screen of current source.


 **Adjust the date and time manually.**

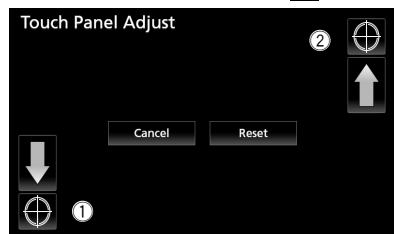
- 1 Touch **Clock** in the User Interface screen.
- 2 Select **Manual**.
- 3 Touch **Time Zone** in the User Interface screen.
- 4 Select the time zone.
- 5 Touch **Clock Adjust** in the User Interface screen.
- 6 Adjust the date, then adjust the time.



- 7 Touch **Set**.

 **Touch panel adjustment**

- 1 Touch **Touch Panel Adjust** on the User Interface screen.
  - Touch Panel Adjust screen appears.
- 2 Follow the instruction on the screen and long touch the center of each .



**NOTE**

- To cancel the touch panel adjustment, touch **Cancel**.
- To reset to the initial status, touch **Reset**.

## Learning function of steering remote

This function is available only when your vehicle is equipped with the electrical steering remote controller.

If your steering remote controller is not compliant, learning may not be completed and error message may appear.

### 1 Touch **Steering Remote Controller** in the User Interface screen.

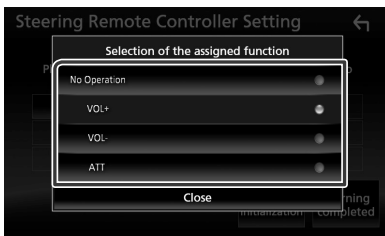
- Steering Remote Controller Setting screen appears.

### 2 Press and hold the steering remote controller button

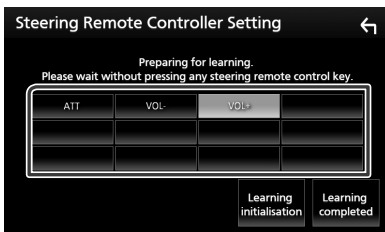
**NOTE**

- You can have the unit learned all buttons at a time. In that case, press the all buttons one at a time and after pressing all of them, touch **Learning completed** in Steering Remote Controller Setting screen. However, new functions cannot be learned after this operation.

### 3 Touch the function you want to set.



### 4 Repeat steps 2 and 3 as necessary.



## 5 Touch **Learning completed**.

**NOTE**

- When changing the function already learned, press and hold the button you want to change in step 2 and then touch to select the changed function from the function list.
- Confirm the contents of the settable function on the function list. You cannot edit the function list.
- To initialize the contents, touch **Learning initialisation of Steering Remote Controller** in User Interface screen. After you touch **Initialise**, a confirmation message appears. Follow the message and complete the operation.

## Special Setup

You can setup Special parameters.

### 1 Press the **FNC** button.

- Popup menu appears.

### 2 Touch .

- HOME screen appears.

### 3 Touch .

- SETUP screen appears.

### 4 Touch **Special**.



- Special screen appears.

### 5 Set each item as follows.

#### ■ **DEMO**

Set the demonstration mode. Default is "ON".

#### ■ **SETUP Memory**

Locks or unlocks the Audio SETUP Memory/Recall/Clear.

#### ■ **Audio SETUP Memory**

Memorizes the current audio setting.

- Fader/ Balance, Speaker / X'over, Equalizer (User Preset, SW Level), Position/DTA, Sound Effect (**P.48**)

#### ■ **Audio SETUP Recall**

Recalls the memorized audio setting.

#### ■ **Audio SETUP Clear**

Clears the AUDIO SETUP Memory and the currently memorized audio setting.

## Setting Up

### ■ Software Information

Check the software version of this unit.  
(P.46)

### ■ Open Source Licenses

Displays the open source licenses.

### ■ Initialise

Touch **Initialise** and then touch **Yes** to set all the settings to the initial default settings.

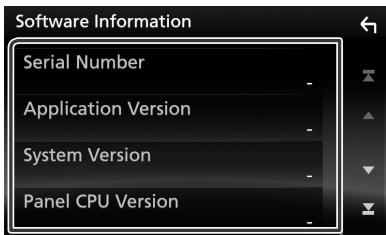
- Audio SETUP Memory is not initialized.

## ■ Software Information

Check the software version of this unit.

1 Touch **Software Information** in the Special screen.

2 Confirm the software version.



### NOTE

- For how to update the software, see the relevant update procedure manual which comes with the software.

## Display Setup

1 Press the **FNC** button.

- Popup menu appears.

2 Touch .

- HOME screen appears.

3 Touch .

- SETUP screen appears.

4 Touch **Display**.



- Display screen appears.

5 Set each item as follows.

### ■ Dimmer

Select dimmer mode.

**OFF**: The display and buttons do not dim.

**ON**: The display and buttons dim.

**SYNC** (Default): Turns the dimmer function on or off when the vehicle light control switch is turned on or off.

### ■ OSD Clock

Select if you want to display the clock while watching video, etc.

"ON" (Default)/ "OFF"

### ■ Wallpaper Customize

Changing wallpaper image. (P.46)

### ■ Viewing Angle

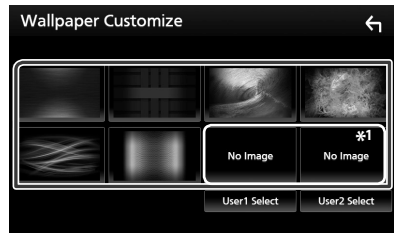
If it is hard to see the image on the screen even, adjust the viewing angle. The smaller the (negative) value, the more whitish the image on the screen looks.

"0" (Default)/ "-1"/ "-2"/ "-3"

## ■ Change wallpaper image

1 Touch **Wallpaper Customize** in the Display screen.

2 Select an image.



\*1 Select an original image in advance.

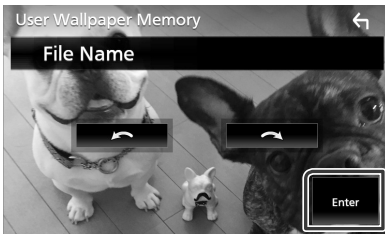
### To register original image

You can load an image from the connected USB device and set it for the wallpaper image. Before operating this procedure, it is necessary to connect the device which has the image to load.

- 1 Touch **User1 Select** or **User2 Select** in the Wallpaper Customize screen.
- 2 Select the image to load.





- 3 Touch **Enter**.





- The selected image is loaded and the display returns to the Wallpaper Customize screen.

#### NOTE

- Touching  rotates counter clockwise.
- Touching  rotates clockwise.
- Picture files: JPEG (.jpg, .jpeg), PNG (.png), BMP (.bmp)

## AV Setup

You can set AV parameters.

- 1 Press the **FNC** button.
  - Popup menu appears.
- 2 Touch .
  - HOME screen appears.
- 3 Touch .
  - SETUP screen appears.
- 4 Touch **AV**.



- AV screen appears.

- 5 Set each item as follows.

#### ■ TV Tuner Control

Sets when connecting the TV tuner to AV INPUT.

**ON:** Set to ON when connecting the 3rd party TV tuner. AV-IN Name is set to TV. If you connect the TV tuner made by DOS and watch TV, you can perform some simple operations by touching the screen of this unit.

**OFF (Default):** Set to OFF when not connecting the 3rd party TV tuner.

#### ■ AV-OUT

You can select an AV source to be output from the AV OUTPUT port.

OFF, AV-IN, USB, or iPod

- You cannot select iPod if it is connected via Bluetooth.
- If you select USB, iPod, Spotify, Bluetooth audio, Mirroring (WebLink/Waze), Apple CarPlay or Android Auto as the main source, you cannot select USB or iPod as the AV output source.

#### ■ Driving Position

Select the driving position (left or right).  
“Left”/“Right” (Default)

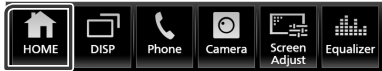
# Controlling Audio

You can adjust the various settings such as audio balance or subwoofer level.

**1 Press the FNC button.**

➤ Pop-up menu appears.

**2 Touch .**



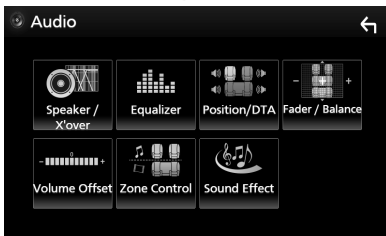
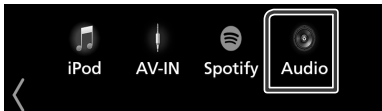
➤ HOME screen appears.

**3 Touch .**



➤ Source selection screen appears.

**4 Touch Audio.**



See the following section for each setting.

- Set up speaker/ X'over (P.49)
- Controlling equalizer (P.51)
- Set listening position/ DTA (P.54)
- Controlling general audio (Fader / Balance) (P.51)
- Set volume offset (P.52)
- Performing zone control (P.52)
- Set sound effect (P.53)

## 3 way speaker system setup

Select the appropriate crossover network mode according to the speaker system (2-way speaker system or 3-way speaker system).

**1 Press the FNC button.**

➤ Pop-up menu appears.

**2 Touch .**

➤ HOME screen appears.

**3 Touch .**

➤ Source selection screen appears.

**4 Touch AV Off.**

**5 Press the FNC (①) button and the - (②) button for 1 second at the same time.**



➤ Speaker system select screen appears.

**6 Select the crossover network mode.**



➤ A confirmation screen appears.



**7 Touch Yes.**

**NOTE**

- When the 3-way speaker system is selected, the following functions are disabled.
  - Zone Control
  - Fader of Controlling General Audio
  - Front focus of Listening Position/ DTA
  - Select the speakers to output the sound from cell-phone of Bluetooth HF/Audio
  - Beep of User Interface Setup
- Connecting 3-way speakers with the 2-way mode selected can break the speakers.



## Speaker/ X'over setup

- 1 Press the **FNC** button.
  - Popup menu appears.
- 2 Touch .
  - HOME screen appears.
- 3 Touch .
  - Source selection screen appears.
- 4 Touch **Audio**.
  - Audio screen appears.
- 5 Touch **Speaker/X'over**.



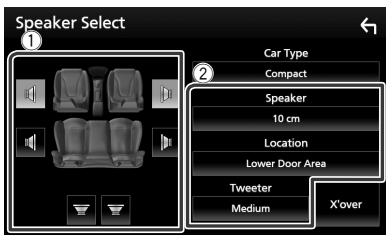
- 6 Select a car type.

You can setup the car type and speaker network, etc.

If your car type is selected, the Delay Time Alignment is set automatically (for timing adjustment of sound output for each channel) to have the highest surround effects.



- 7 Touch the speaker (1) you wish to adjust and set each item (2) as follows.



### ■ Speaker

You can select a speaker type and its size to get the best sound effects.

When the speaker type and size are set, the speaker crossover network is set automatically.

### ■ Location (Only for Front, Rear)

Select the speaker position you have fixed.

### ■ Tweeter (Only for Front)

You can set the tweeter when you are selecting front speakers.

None, Small, Medium, Large

### ■ X'over

Displays the speaker crossover setup screen.

You can adjust the crossover setup that was set automatically when you selected the speaker type.

For details, see **Crossover network setup (P.50)**

### When Speaker network is set to 3 way:



### NOTE

- For how to switch to the 3-way speaker system, see **3 way speaker system setup (P.48)**. Connecting 3-way speakers with the 2-way mode selected can break the speakers.
- Select "None" if you have no speakers.

## Controlling Audio

### Crossover network setup

You can set a crossover frequency of speakers.

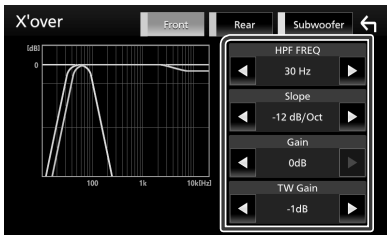
#### 1 Touch **X'over**.



#### 2 Touch the speaker to set.



#### 3 Set each item as follows.



##### ■ **HPF FREQ**

High Pass Filter adjustment. (When front or rear speaker is selected on Speaker Select screen)

##### ■ **LPF FREQ**

Low Pass Filter adjustment. (When subwoofer is selected on Speaker Select screen)

##### ■ **Slope** \*1

Sets a crossover slope.

##### ■ **Gain**

Adjusts the front speaker, rear speaker, or subwoofer level.

##### ■ **TW Gain** \*2

Adjusts the tweeter level. (When front is selected on Speaker Select screen)

##### ■ **Phase Inversion** \*3

Sets the phase of subwoofer output.

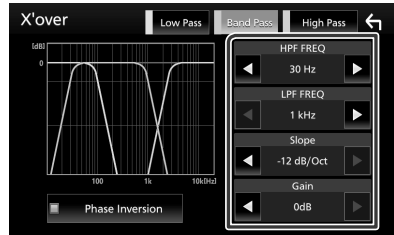
Check **Phase Inversion** to shift the phase 180 degrees. (When subwoofer is selected on Speaker Select screen)

\*1 Only when "LPF FREQ"/"HPF FREQ" is set to a mode other than "Through" in **X'over**.

\*2 Only when "Tweeter" is set to "Small", "Medium", "Large" in **Speaker Setup**.

\*3 Only when "Subwoofer" is set to a mode other than "None" in **Speaker Setup**.

### When Speaker network is set to 3 way:



##### ■ **FREQ (High Pass)**

High Pass Filter adjustment. (When tweeter is selected on Speaker Select screen)

##### ■ **HPF FREQ, LPF FREQ (Band Pass)**

Band Pass Filter adjustment. (When mid range speaker is selected on Speaker Select screen)

##### ■ **FREQ (Low Pass)**

Low Pass Filter adjustment. (When woofer is selected on Speaker Select screen)

##### ■ **Slope** \*1

Sets a crossover slope.

##### ■ **Gain**

Sets gain of each speaker.

##### ■ **Phase Inversion** \*2

Sets the phase of tweeter, mid range, and woofer output.

Check **Phase Inversion** to shift the phase 180 degrees.



\*1 Only when "LPF FREQ"/"HPF FREQ" is set to a mode other than "Through" in **X'over**.

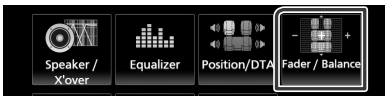
\*2 Only when "Subwoofer" is set to a mode other than "None" in **Speaker Setup**.

#### NOTE

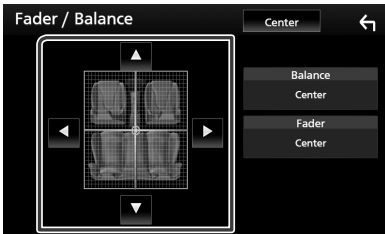
- For how to switch to the 3-way speaker system, see **3 way speaker system setup (P.48)**. Connecting 3-way speakers with the 2-way mode selected can break the speakers.

## Controlling General Audio

- 1 Press the **FNC** button.
  - Popup menu appears.
- 2 Touch .
  - HOME screen appears.
- 3 Touch .
  - Source selection screen appears.
- 4 Touch **Audio**.
  - Audio screen appears.
- 5 Touch **Fader / Balance**.



- 6 Set each item as follows.



### ■ Fader / Balance

Adjust the volume balance around the touched area.

◀ and ▶ adjust the right and left volume balance.


▲ and ▼ adjust the front and rear volume balance.

### ■ Center

Clear the adjustment.

## Equalizer Control

You can adjust equalizer by selecting the optimized setting for each category.

- 1 Press the **FNC** button.
  - Popup menu appears.
- 2 Touch .
  - HOME screen appears.

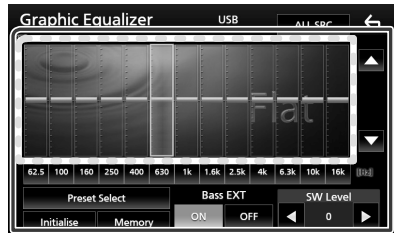
- 3 Touch .
  - Source selection screen appears.

- 4 Touch **Audio**.
  - Audio screen appears.

- 5 Touch **Equalizer**.



- 6 Touch the screen and set the **Graphic Equalizer** as desired.



### ■ Gain level (dotted frame area)

Adjust the gain level by touching the each frequency bar.

You can select frequency bar and adjust its level by ▲, ▼.

### ■ Preset Select

Displays the screen to recall the preset equalizer curve.

### ■ Memory

Saves the adjusted equalizer curve from "User1" to "User4".

### ■ Initialise

The current EQ curve returns to flat.

### ■ ALL SRC

Apply the adjusted equalizer to all sources. Touch **ALL SRC** and then touch **OK** on the confirmation screen.

### ■ Bass EXT (Bass Extend Settings)

When turned on, the frequency lower than 62.5 Hz is set to the same gain level as 62.5 Hz.

### ■ SW Level

Adjusts the subwoofer volume. This setting is not available when subwoofer is set to "None". See **Speaker / X'over setup (P.49)**.

## Controlling Audio

### Recall the EQ curve

- 1 Touch **Preset Select**.
- 2 Select EQ curve.



#### NOTE

- iPod is available only during iPod source.



### Save the EQ curve

- 1 Adjust the EQ curve.
- 2 Touch **Memory**.
- 3 Select where to save.



## Volume Offset

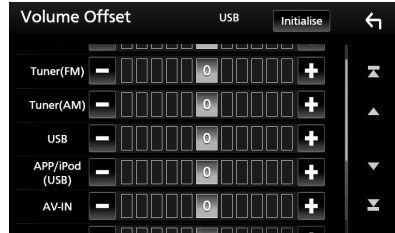
Finely adjust the volume of the current source to minimize the difference in volume between different sources.

- 1 Press the **FNC** button.
  - Popup menu appears.
- 2 Touch .
- HOME screen appears.
- 3 Touch .
- Source selection screen appears.
- 4 Touch **Audio**.
- Audio screen appears.

### 5 Touch **Volume Offset**.



### 6 Touch + or - to adjust the level.






#### ■ Initialise

Returns to the initial settings.

\* If you have increased the volume first, then reduced the volume using the "Volume Offset", the sound generated if you suddenly switch to another source may be extremely loud.

## Zone Control

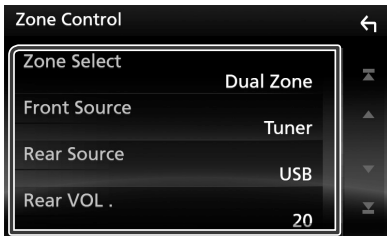
You can select different sources for both front and rear positions in the vehicle.

- 1 Press the **FNC** button.
    - Popup menu appears.
  - 2 Touch .
  - HOME screen appears.
  - 3 Touch .
  - Source selection screen appears.
  - 4 Touch **Audio**.
  - Audio screen appears.
  - 5 Touch **Zone Control**.
- 
- Zone Control screen appears.
  - 6 Touch **Zone Select**.

## 7 Touch Dual Zone.



## 8 Set each source as follows.



### ■ Zone Select

Touch **Single Zone** to turn off the dual zone function.

### ■ Front Source Rear Source

Select the audio source for each.

### ■ Rear VOL.



Adjusts the rear source volume.

## NOTE

- When the rear speaker sound is switched, the audio source that is output at the AV OUTPUT terminal is also switched to the same source.
- When the dual zone function is set to on, the following functions are not available.
  - Output from the subwoofer
  - Subwoofer Level/ Bass Boost (P.53)
  - Equalizer Control/ Sound Effect/ Listening Position (P.51, 53, 54)
  - Speaker Setup (P.49)
  - High-resolution Sound Source File Playback
- You cannot select iPod if it is connected via Bluetooth.
- If you select USB, iPod, Spotify, Bluetooth audio, Mirroring (WebLink/ Waze), Apple CarPlay or Android Auto as the Front Source, you cannot select USB or iPod as the Rear Source.

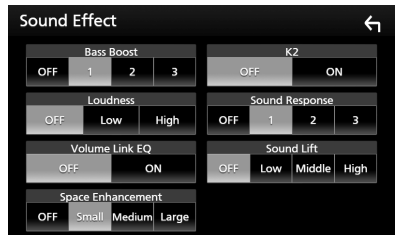
## Sound Effect

You can set sound effects.

- 1 Press the **FNC** button.
  - Pop up menu appears.
- 2 Touch .
  - HOME screen appears.
- 3 Touch .
  - Source selection screen appears.
- 4 Touch **Audio**.
  - Audio screen appears.
- 5 Touch **Sound Effect**.



## 6 Set each item as follows.



### ■ Bass Boost

Sets the amount of bass boost among "OFF"/"1"/"2"/"3".

### ■ Loudness

Sets the amounts of boost of low and high tones.

"OFF", "Low", "High"

### ■ Volume Link EQ

Reduces the driving noise by raising the bandwidth.

"OFF", "ON"

### ■ Space Enhancement

Select the feeling of sound space enhancement.

"OFF"/"Small"/"Medium"/"Large".

This setting is not available during tuner source.

## Controlling Audio

### ■ K2

Turns ON/OFF the K2 function.

Technology to extrapolate and supplement with proprietary algorithm, the high-frequency range that is cut off when encoding.

### ■ Sound Response

Virtually makes the sound more realistic using the Digital Signal Processor (DSP) system.

Select the level from "OFF"/"1"/"2"/"3".



### ■ Sound Lift

You can adjust the height of speakers virtually to suit your listening position. "OFF"/"Low"/"Middle"/"High".

## Listening Position/ DTA

Listening Position/DTA allows you to improve the sound field depending on the position of the seat you sit.

Listening Position/DTA allows you to set "Listening Position" and "Front Focus". You cannot set both at the same time.

- 1 Press the **FNC** button.
  - Pop up menu appears.
- 2 Touch .
- 3 Touch .
- 4 Touch **Audio**.
- 5 Touch **Position/DTA**.

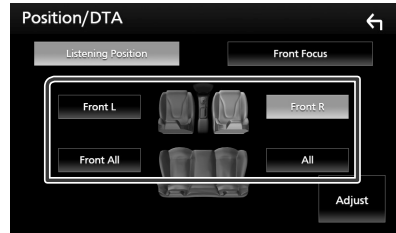


- Set up Listening Position (**P.54**)
- Set up Front Focus (**P.55**)

## Listening Position



Adjust the sound delay time as nearer speakers to the selected seat have more delay time, so that the sound from each speaker arrive a listener at the same time.

- 1 Touch **Listening Position** in the Position/DTA screen.
- 2 Select listening position from **Front R** (Right front), **Front L** (Left front), **Front All** (All front), and **All**.





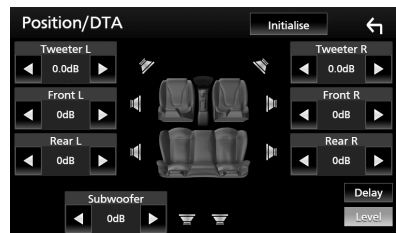
### Position DTA control

You can fine-adjust your listening position.

- 1 Touch **Adjust**.
- 2 Touch **Delay**.
- 3 Touch  or  to adjust the delay time of the selected speaker.



- 4 Touch **Level**.
- 5 Touch  or  to adjust the sound level of the selected speaker.



**NOTE**

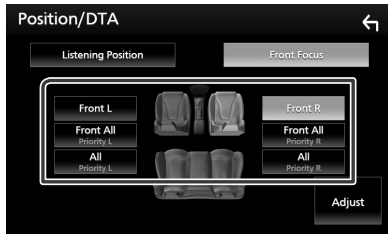
- To return to the initial setting of Delay and Level, touch **Initialise** and **YES** in the confirmation screen.

**Front Focus**

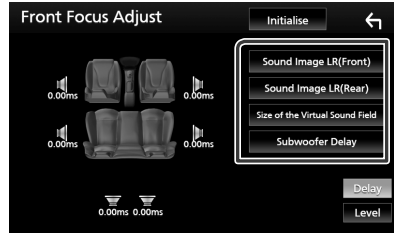
This is the function to focus the imaginary sound image in front of the selected seat.

- 1 Touch **Front Focus** in the Position/DTA screen.
- 2 Select a front focus position.

For **Front All** and **All**, select Priority L or R depending on which side you want to put the imaginary sound image.

**Front Focus fine adjustment**

- 1 Touch **Adjust**.
- 2 Touch **Delay**.
- 3 Set each item as follows.

**Sound Image LR (Front)**

Adjust the sound image to focus on in front of front seats.

**Sound Image LR (Rear)**

Adjust the sound image to focus on in front of rear seats.

**Size of the Virtual Sound Field**

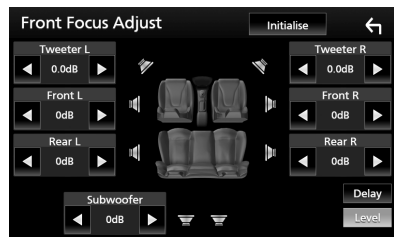
Adjust the size of sound image to meet your taste. If the sound image is shifted from the front, adjust it by **Sound Image LR (Front)** or **Sound Image LR (Rear)**.

**Subwoofer Delay**

Adjust the delay time of subwoofer.

- 4 Touch **Level**.

- 5 Touch **◀** or **▶** to adjust the sound level of the selected speaker.

**NOTE**

- To return to the initial setting of Delay and Level, touch **Initialise** and **YES** in the confirmation screen.

# Remote control

This unit can be operated using the remote control.

For oceania sales area, the remote control is the optional accessory (RM-RK258).

## ▲ WARNING

- Do not ingest the battery, Chemical Burn Hazard

The remote control supplied with this product contains a coin / button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.

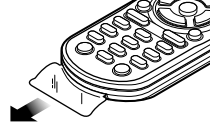
If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

## ▲ CAUTION

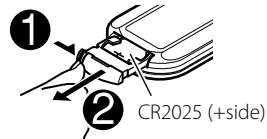
- Put the remote control in a place where it will not move during braking or other operations. A dangerous situation could result, if the remote control falls down and gets wedged under the pedals while driving.
- Do not leave the battery near fire or under direct sunlight. A fire, explosion or excessive heat generation may result.
- Do not recharge, short, break up or heat the battery or place it in an open fire. Such actions may cause the battery to leak fluid. If spilled fluid comes in contact with your eyes or on clothing, immediately rinse with water and consult a physician.
- Danger of explosion if Lithium battery is incorrectly replaced. Replace only with the same or equivalent type.

## ■ Removing the battery sheet

Pull the battery sheet out from the remote controller to activate the battery.



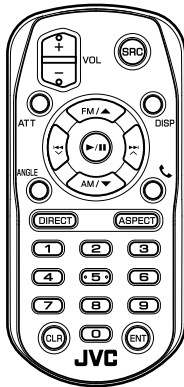
## ■ Changing the battery of the remote controller



- Use a commercially available button battery (CR2025).
- Insert the battery with the + and – poles aligned properly.
  - If the effectiveness of the remote controller decreases, replace the battery.



## Functions of the Remote control Buttons



Key Name	Function
SRC	Switches to the source to be played. In hands-free mode, hangs up the phone.
VOL + -	Adjusts the volume.
ATT	Lowers the volume by pressing the key once. Restores the previous volume by pressing the key twice.
DISP	Switches the screen between the current source and the App screen from the connected iPod touch/iPhone/Android.
FM/▲ AM/▼	Selects the folder to be played. During tuner source, select FM/ AM band to be received.
◀◀ ◻ ▶▶ ◻	Selects the track or file to be played.
ANGLE	Not used.
	When a call comes in, answers the call.
DIRECT	Switches to the direct search mode. For details on the direct search mode, see <b>Direct search mode (P.57)</b> .
ASPECT	Changes the aspect ratio. • To check the current aspect ratio setting, operate on the touch panel. <b>(P.43)</b>

Key Name	Function
Numeric Keypad	<ul style="list-style-type: none"> <li>Enters a preset station number (1 - 6)</li> <li>Specifies the number to search in direct search. For details on the direct search mode, see <b>Direct search mode (P.57)</b>.</li> </ul>
CLR	Deletes a character while in direct search mode.
ENT	Performs the selected function.

### Direct search mode

Using the remote control, you can jump directly to the desired file, track chapter, etc. with entering the number corresponding to the content.

#### NOTE

- This operation cannot be performed for USB device and iPod.

#### 1 Press the **SRC** button several times until the desired content appears.

The available contents are different depending on the source.

##### ■ Tuner

Frequency value

#### 2 Press the **DIRECT** button.

#### 3 Enter the number of the content you want to play using the numeric keypad.

#### 4 Press the ◀◀ or ▶▶ button.

- ▶ The content you entered is played.

# Connection/Installation

## Before Installation

Before installation of this unit, please note the following precautions.

### ▲ WARNINGS

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

### ▲ CAUTION

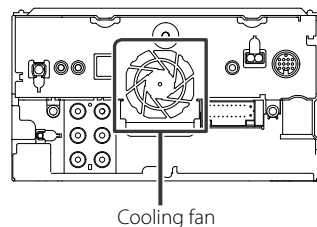
- Install this unit in the console of your vehicle. Do not touch the metal part of this unit during and shortly after the use of the unit. Metal part such as the heat sink and enclosure become hot.

### NOTE

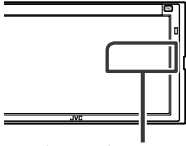
- Mounting and wiring this product requires skills and experience. For best safety, leave the mounting and wiring work to professionals.
- Make sure to ground the unit to a negative 12V DC power supply.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.
- If the power is not turned ON ("There is an error in the speaker wiring. Please check the connections." is displayed), the speaker wire may have a short-circuit or touched the chassis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.
- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the

ignition key. If you connect the ignition wire to a power source with a constant voltage supply, such as with battery wires, the battery may be drained.

- If the console has a lid, make sure to install the unit so that the front panel will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.
- Insulate unconnected wires with vinyl tape or other similar material. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the ⊖ wires or ground them to any metal part in the car.
- When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). For example, if you connect the ⊕ connector of the left speaker to a front output terminal, do not connect the ⊖ connector to a rear output terminal.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.
- This unit has the cooling fan to decrease the internal temperature. Do not mount the unit in a place where the cooling fan of the unit is blocked. Blocking these openings will inhibit the cooling of the internal temperature and result in malfunction.


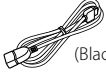




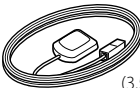



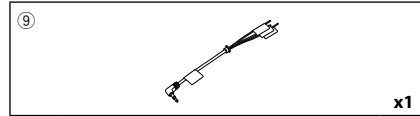
- Do not press hard on the panel surface when installing the unit to the vehicle. Otherwise scars, damage, or failure may result.
- Reception may drop if there are metal objects near the Bluetooth antenna.



Bluetooth antenna unit

### ■ Supplied accessories for installation

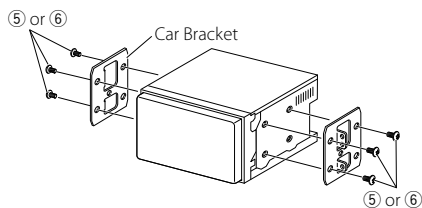
①		x1
②	 (Black 1 m)	x1
③	 (Gray 1 m)	x1
④	 (3 m)	x1
⑤	 (M5 x 8 mm)	x6
⑥	 (M5 x 8 mm)	x6
⑦	 (3.5 m)	x1
⑧		x1



### ■ Installation procedure

- 1) To prevent a short circuit, remove the key from the ignition and disconnect the  $\ominus$  terminal of the battery.
- 2) Make the proper input and output wire connections for each unit.
- 3) Connect the speaker wires of the wiring harness.
- 4) Connect the wiring harness wires in the following order; ground, battery, ignition.
- 5) Connect the wiring harness connector to the unit.
- 6) Install the unit in your car.
- 7) Reconnect the  $\ominus$  terminal of the battery.
- 8) Perform the Initial Setup.  
See **Initial setup (P.6)**.

## Installing the unit



### NOTE

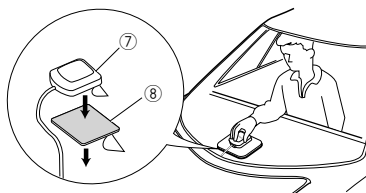
- Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (eg, the sound may skip).

## GPS antenna

GPS antenna is installed inside of the car. It should be installed as horizontally as possible to allow easy reception of the GPS satellite signals.

To mount the GPS antenna inside your vehicle:

- 1) Clean your dashboard or other surface.
- 2) Remove the separator of the metal plate (accessory ⑧).
- 3) Press the metal plate (accessory ⑧) down firmly on your dashboard or other mounting surface. You can bend the metal plate (accessory ⑧) to conform to a curved surface, if necessary.
- 4) Remove the separator of the GPS antenna (accessory ⑦), and stick the antenna to the metal plate (accessory ⑧).

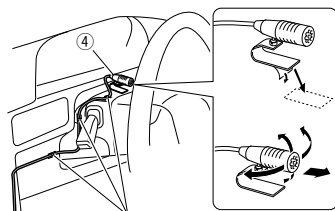


### NOTE

- Depending on the type of car, reception of the GPS satellite signals might not be possible with an inside installation.
- Please install this GPS antenna in an area away from any antennas that are used with CB radios or satellite televisions.
- The GPS antenna should be installed at a position that is spaced at least 12 inch (30 cm) from cellular phone or other transmitting antennas. Signals from the GPS satellite may be interfered with by these types of communication.
- Painting the GPS antenna with (metallic) paint may cause a drop in performance.

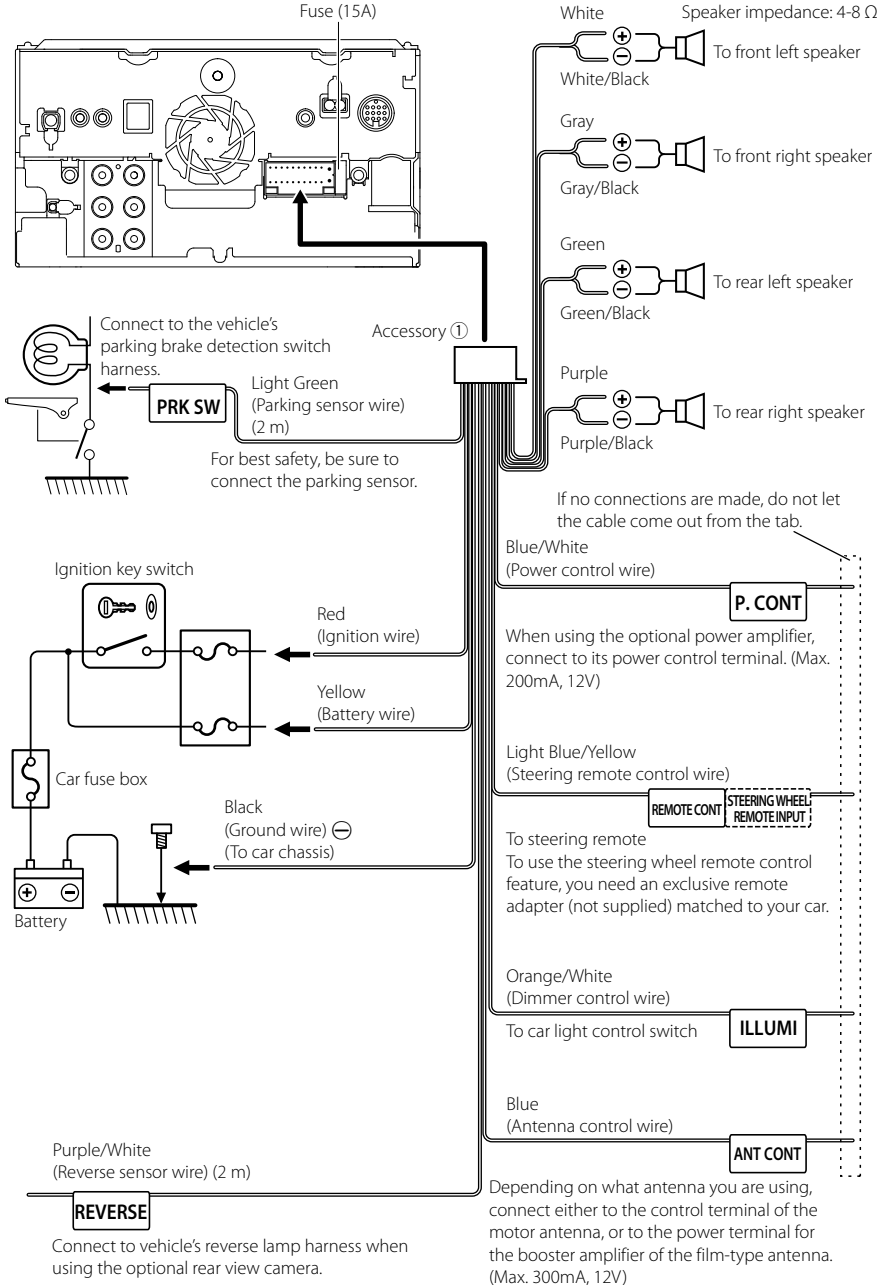
## Microphone unit

- 1) Check the installation position of the microphone (accessory ④).
- 2) Clean the installation surface.
- 3) Remove the separator of the microphone (accessory ④), and stick the microphone to the place shown below.
- 4) Wire the microphone cable up to the unit with it secured at several positions using tape or other desired method.
- 5) Adjust the direction of the microphone (accessory ④) to the driver.

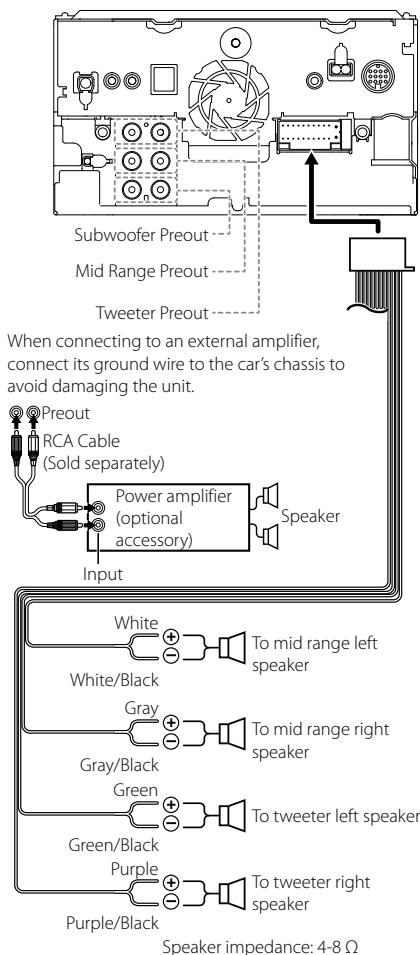


Fix a cable with a commercial item of tape.

## Connecting wires to terminals



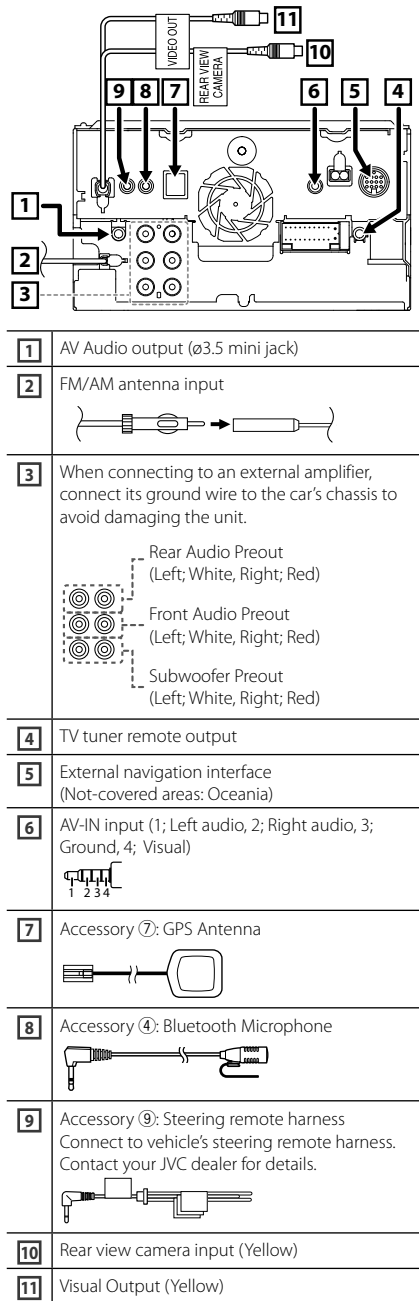
### 3 way speaker system setup



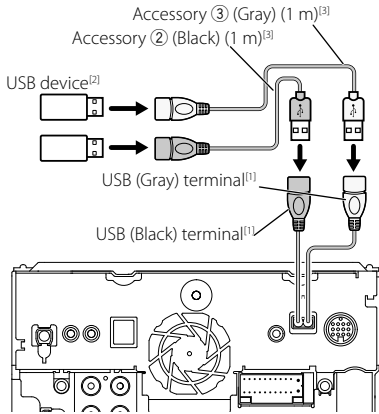
#### NOTE

- For speaker system setup, see **3 way speaker system setup (P.48)**.
- For speaker setup and crossover setup, see **Speaker/ X'over setup (P.49)**.
- For how to connect speaker wires to terminals other than speaker terminals and Preout terminals, see **Connecting the system and external components (P.62)** and **Connecting wires to terminals (P.61)**.

### Connecting the system and external components



## Connecting a USB device

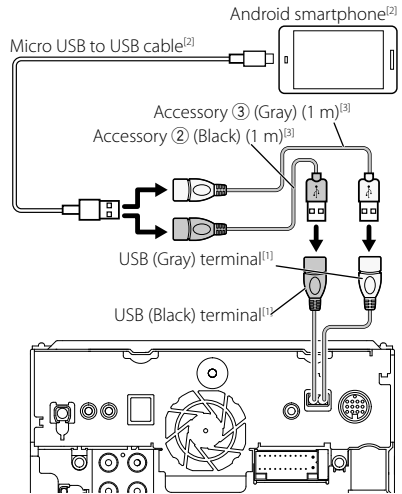


<sup>[1]</sup> USB maximum power supply current :  
 DC 5 V  $\equiv$  1.5 A

<sup>[2]</sup> Sold separately

<sup>[3]</sup> See **Securing the USB extension cable (P.64)**.

## Connecting an Android smartphone



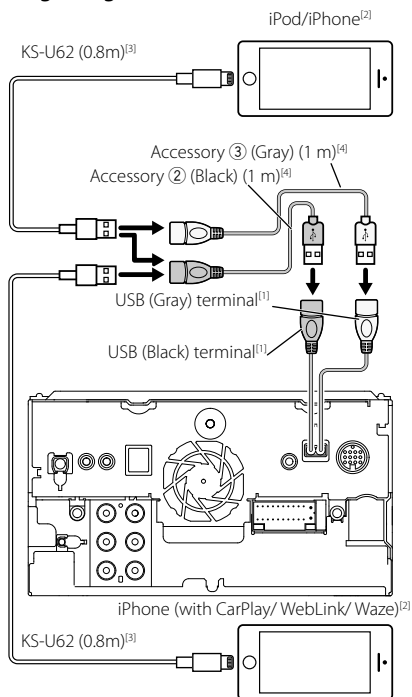
<sup>[1]</sup> USB maximum power supply current :  
 DC 5 V  $\equiv$  1.5 A

<sup>[2]</sup> Sold separately

<sup>[3]</sup> See **Securing the USB extension cable (P.64)**.

## Connecting an iPod/iPhone

### ● Lightning connector



<sup>[1]</sup> USB maximum power supply current :  
DC 5 V  $\overline{\text{---}}$  1.5 A

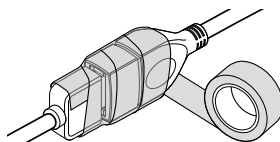
<sup>[2]</sup> Sold separately

<sup>[3]</sup> Optional accessory

<sup>[4]</sup> See **Securing the USB extension cable (P.64)**.

## Securing the USB extension cable

Secure the USB extension cable with insulating tape or the like so that its connectors are not disconnected.





# Troubleshooting

## Problems and Solutions

If any trouble occurs, first check the following table for possible problems.

### NOTE

- Some functions of this unit may be disabled by some settings made on this unit.
- What might seem to be a malfunction in your unit may just be the result of slight misoperation or miswiring.

### About settings

- **Cannot set up the subwoofer.**
- **Cannot set up subwoofer phase.**
- **No output from the subwoofer.**
- **Cannot set up the low pass filter.**
- **Cannot set up the high pass filter.**

Subwoofer is not set to on.

- Set the subwoofer to on. See *Speaker/X'over setup (P.49)*.

The dual zone function is enabled.

- Set the dual zone function to off. See *Zone Control (P.52)*.

- **Cannot select the output destination of the subsource in the dual zone.**
- **Cannot adjust the volume of the rear speakers.**

The dual zone function is disabled.

- Set the dual zone function to on. See *Zone Control (P.52)*.

- **Cannot set up the equalizer.**
- **Cannot set up the crossover network.**

The dual zone function is enabled.

- Set the dual zone function to off. See *Zone Control (P.52)*.

### About audio operations

#### Radio reception is poor.

The car antenna is not extended.

- Pull out the antenna all the way.

The antenna control wire is not connected.

- Connect the wire correctly. See *Connecting the system and external components (P.62)*.

#### Cannot select a folder.

The random play function is enabled.

- Turn off the random function.

### Other

#### The Touch Sensor Tone doesn't sound.

The preout jack is being used.

- The Touch Sensor Tone cannot be output from the preout jack.

## Error Messages

When you fail to operate the unit correctly, the cause of the failure appears as the message on the screen.

#### There is an error in the speaker wiring. Please check the connections.

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

- Wire or insulate the speaker cord as appropriate and turn the power off and on again.

#### Error 07-67

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

- Turn the power off and on again. If the "Error 07-67" message does not disappear, see your nearest JVC dealer.

#### No Device (USB device)

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

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

#### Disconnected (iPod, Bluetooth audio player)

The iPod/Bluetooth audio player is selected as a source although no iPod/Bluetooth audio player is connected.

- Change the source to any source other than iPod/Bluetooth. Connect an iPod/Bluetooth audio player, and change the source to iPod/Bluetooth again.

#### No Media file

The connected USB device contains no playable audio file. Media was played that doesn't have data recorded that the unit can play.

- See *Playable Media and Files (P.66)* and try another USB device.

#### USB device over current status detected.

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

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

# Appendix

## Playable Media and Files

You can play various kinds of media and files on this unit.

### About files

The following audio and video files are supported.

#### Playable Audio files

	Format	Bit rate	Sampling frequency	Bit count
AAC-LC (.m4a)	MPEG2/4 AAC LC HE-AAC(V1,V2)	8 – 320kbps, VBR	16 – 48 kHz	16 bit
MP3 (.mp3)	MPEG 1/2 Audio Layer 3	8 – 320kbps, VBR	16 – 48 kHz	16 bit
WMA (.wma)	Windows Media Audio Standard L3 profile (Version 7,8,9)	8 – 320kbps	16 – 48 kHz	16 bit
Linear PCM (WAVE) (.wav)	RIFX waveform Audio Format	–	16 – 192 kHz	16/ 24 bit
FLAC (.flac)	flac	–	16 – 192 kHz	16/ 24 bit
Vorbis (.ogg)	vorbis	VBR	16 – 48 kHz	16 bit
DSD (.dsf, .dff)	DSF, DSDIFF	–	2.8 MHz, 5.6 MHz, 11.2 MHz	1 bit

- WMA and AAC of which is covered with DRM cannot be played.
- DSD sound is converted to PCM sound before playback.
- The EmChinks tag of DSDIFF is not supported.
- Although the audio files are compiled with the standards listed above, the play may be impossible depending on the types or conditions of media or device.
- This unit supports playback of High-Resolution Audio files.  
It is recommended that a car audio system should be configured with all High-Resolution Audio compatible products from player to speaker to enjoy its high quality sound.

#### Acceptable Video files

	Profile	Max. Picture size	Max. bit rate	Audio format
MPEG-1 (.mpg, .mpeg)	–	352 × 240, 352 × 288	1.5 Mbps	MPEG Audio Layer 2
MPEG-2 (.mpg, .mpeg)	MP@ML	720 × 480, 720 × 576	8 Mbps	MPEG Audio Layer 2
H.264/MPEG-4 AVC (.mp4, .m4v, .avi, .flv, .f4v)	Baseline Profile, Main Profile	1920 × 1080 (30 fps)	8 Mbps	MP3, AAC
MPEG-4 (.mp4, .avi)	Advanced Simple Profile	1920 × 1080 (30 fps)	8 Mbps	MP3, AAC
WMV (.wmv)	Main Profile	1920 × 1080 (30 fps)	8 Mbps	WMA
MKV (.mkv)	Video Format follows H.264/MPEG-4 AVC, MPEG-4, WMV			MP3, AAC, WMA, Vorbis, FLAC

- This unit can only play back files which are less than 4 GB.

#### Limitation of structure for the file and the folder

	USB device
Maximum number of folder layers	8
Maximum number of files (per folder)	999
Maximum number of folders (per folder)	9999
Maximum number of folders (per device)	Unlimited

- You can enter a folder name and file name with 255 or fewer single-byte characters.
- Files in the folder whose folder name begins with a dot (.) cannot be played.

## Specifications

### ■ Monitor section

#### Picture Size

- : 6.75 inches (diagonal) wide
- : 151.8 mm (W) × 79.68 mm (H)

#### Display System

- : TN LCD panel

#### Drive System

- : TFT active matrix system

#### Number of Pixels

- : 1,152,000 (800H x 480V x RGB)

#### Effective Pixels

- : 99.99 %

#### Pixel Arrangement

- : RGB striped arrangement

#### Back Lighting

- : LED

### ■ USB interface section

#### USB Standard

- : USB 2.0 High Speed

#### File System

- : FAT 16/ 32, exFAT, NTFS

#### Maximum Power Supply Current

- : DC 5 V  1.5 A × 2

#### D/A Converter

- : 24/ 32 bit

#### Audio Decoder

- : MP3/ WMA/ AAC/ WAV/ FLAC/ Vorbis/ DSD

#### Video Decoder

- : MPEG1/ MPEG2/ MPEG4/ WMV/ H.264/ MKV

#### Frequency Response

- 192 kHz : 20 – 88,000 Hz
- 96 kHz : 20 – 44,000 Hz
- 48 kHz : 20 – 22,000 Hz
- 44.1 kHz : 20 – 20,000 Hz

#### Total Harmonic Distortion

- : 0.0001 % (1 kHz)

#### S/N Ratio (dB)

- : 98.5 dB

#### Dynamic Range

- : 89 dB

### ■ Bluetooth section

#### Technology

- : Bluetooth Ver.3.0

#### Frequency

- : 2.402 – 2.480 GHz

#### Output Power

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

#### Maximum Communication range

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

#### Audio Codec

- : SBC/ AAC

#### Profile (Multi Profile support)

- HFP (V1.6) (Hands Free Profile)
- SPP (Serial Port Profile)
- A2DP (Advanced Audio Distribution Profile)
- AVRCP (V1.5) (Audio/Video Remote Control Profile)
- PBAP (Phonebook Access Profile)

### ■ FM tuner section

#### Frequency Range (step)

- : 87.5 MHz – 108.0 MHz (50 kHz)

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

- : 9.3 dBf (0.8 μV/ 75 Ω)

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

- : 15.2 dBf (1.6 μV/75 Ω)

#### Frequency Response

- : 30 Hz – 15 kHz

#### S/N Ratio (dB)

- : 75 dB (MONO)

#### Selectivity (± 400 kHz)

- : Over 80 dB

#### Stereo Separation

- : 45 dB (1 kHz)

### ■ AM tuner section

#### Frequency Range (step)

- KW-M740BT (for asia sales area):  
531 kHz – 1611 kHz (9 kHz)
- KW-M740BT (for oceania sales area):  
531 kHz – 1701 kHz (9 kHz)
- KW-M740BTM: 531 kHz – 1602 kHz (9 kHz)

#### Usable Sensitivity

- KW-M740BT: 28 dBμ
- KW-M740BTM: 25 μV

## Appendix

### ■ Video section

Color System of External Video Input  
: NTSC/PAL

External Video Input Level (RCA jacks)  
: 1 Vp-p/ 75 Ω

External Video Input Level (mini jack)  
: 1 Vp-p/ 75 Ω

External Audio Max Input Level (mini jack)  
: 2 V/ 25 kΩ

Video Output Level (RCA jacks)  
: 1 Vp-p/ 75 Ω

Audio Output Level (mini jack)  
: 1.2 V/ 10 kΩ

### ■ Audio section

Maximum Power (Front & Rear)  
: 50 W × 4

Full Bandwidth Power (Front & Rear)  
: 22 W × 4 (4Ω, 14.4V, at less than 1%THD)

Output frequency band  
: 20 – 88,000 Hz

Preout Level (V)  
: 4 V/ 10 kΩ

Preout Impedance  
: ≤ 600 Ω

Speaker Impedance  
: 4 – 8 Ω

### ■ DSP section

#### Graphics equalizer

Band: 13 Band  
Frequency (BAND1 – 13)  
: 62.5/ 100/ 160/ 250/ 400/ 630/ 1k/ 1.6k/ 2.5k/ 4k/  
6.3k/ 10k/ 16k Hz  
Q: 1.35/ 1.5/ 2.0

Gain  
: -9/-8/-7/-6/-5/-4/-3/-2/-1/0/1/2/3/4/5/6/7/8/9 dB

#### 2Way X'Over

High pass filter  
Frequency: Through, 30/ 40/ 50/ 60/ 70/ 80/ 90/ 100/  
120/ 150/ 180/ 220/ 250 Hz

Slope: -6/-12/-18/-24 dB/Oct.  
Gain: -8/ -7/ -6/ -5/ -4/ -3/ -2/ -1/ 0 dB

Low pass filter  
Frequency: 30/ 40/ 50/ 60/ 70/ 80/ 90/ 100/ 120/  
150/ 180/ 220/ 250 Hz, Through

Slope: -6/-12/-18/-24 dB/Oct.  
Gain: -8/ -7/ -6/ -5/ -4/ -3/ -2/ -1/ 0 dB

#### 3Way X'Over

High pass filter  
Frequency: 1k/ 1.6k/ 2.5k/ 4k/ 5k/ 6.3k/ 8k/ 10k/  
12.5k Hz

Slope: -6/-12 dB/Oct.  
Gain: -8/ -7/ -6/ -5/ -4/ -3/ -2/ -1/ 0 dB

Band pass filter  
Frequency: Through, 30/ 40/ 50/ 60/ 70/ 80/ 90/ 100/  
120/ 150/ 180/ 220/ 250 Hz  
1k/ 1.6k/ 2.5k/ 4k/ 5k/ 6.3k/ 8k/ 10k/  
12.5k Hz, Through

Slope: -6/-12 dB/Oct.  
Gain: -8/ -7/ -6/ -5/ -4/ -3/ -2/ -1/ 0 dB

Low pass filter  
Frequency: 30/ 40/ 50/ 60/ 70/ 80/ 90/ 100/ 120/  
150/ 180/ 220/ 250 Hz, Through

Slope: -6/-12 dB/Oct.  
Gain: -8/ -7/ -6/ -5/ -4/ -3/ -2/ -1/ 0 dB

### ■ General

Operating Voltage  
: 14.4 V (10.5 – 16 V allowable)

Maximum Current Consumption  
: 15 A

Installation Dimensions (W × H × D)  
: 178 × 100 × 155 mm

Operational Temperature Range  
: -10 °C – +60 °C

Weight  
: 1.7 kg

#### NOTE

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

**Specifications subject to change without notice.**

## About this Unit

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- For KW-M740BTM



**Declaration of Conformity with regard to the RE Directive 2014/53/EU**

**Declaration of Conformity with regard to the RoHS Directive 2011/65/EU**

**Manufacturer:**

JVC KENWOOD Corporation  
3-12, Moriyacho, Kanagawa-ku, Yokohama-shi,  
Kanagawa 221-0022, JAPAN

**EU Representative:**

JVCKENWOOD Deutschland GmbH  
Konrad-Adenauer-Allee 1-11, 61118 Bad Vilbel,  
GERMANY

#### English

Hereby, JVC KENWOOD declares that the radio equipment KW-M740BTM is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

#### Türkçe

Burada, JVC KENWOOD KW-M740BTM radyo ekipmanının 2014/53/ AB Direktifine uygun olduğunu bildirir. AB uyumluluk deklarasyonunun tam metni aşağıdaki internet adresinde mevcuttur.

**URL: <http://www.jvc.net/cs/car/eudoc/>**

- For Turkey

Bu ürün 28300 sayılı Resmî Gazete'de yayımlanan Atık Elektrikli ve Elektronik Eşyaların Kontrolü Yönetmeliğe uygun olarak üretilmiştir.

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לא ניתן להשליך מוצרים וסוללות עם הסימון (פח אשפה עם X עליו) כאשפה ביתית רגילה.

יש למחזר ציוד חשמלי ואלקטרוני ישן וכן סוללות במתקן המסוגל לטפל בפריטים כאלה ובתוצרי הלוואי שלהם.

צרו קשר עם הרשות המקומית לקבלת פריטים אודות מתקן המיחזור הקרוב אליכם. מיחזור והשלכה לאשפה נאותים יעזרו לשמר משאבים ולמנוע השפעות שליליות על בריאותנו ועל הסביבה.

שימו לב: הסימון Pb שמתחת לסימון עבור סוללות מציינ שהסוללה מכילה עופרת.



**Pb**

**JVC**