

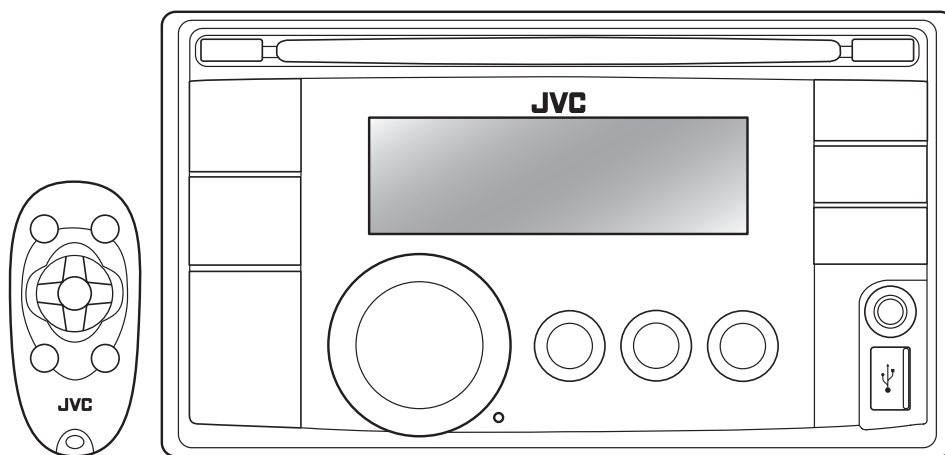
# JVC

ENGLISH

ไทย

## KW-XR816

CD RECEIVER / เครื่องเล่น CD



**MP3**  
**WMA**

 **Bluetooth®**

**COMPACT**  
**disc**  
**DIGITAL AUDIO**  
**TEXT**

Made for  
**iPod**

Works with  
**iPhone**

For canceling the display demonstration, see page 4. / ดูที่หน้า 4 เพื่อยกเลิกการสาธิตภาพประกอบ

For installation and connections, refer to the separate manual. / กรุณาดูคู่มือที่แยกต่างหาก ในการติดตั้งและการเชื่อมต่อ

# INSTRUCTIONS

## คำแนะนำ

GET0662-001A  
[U/UH]

Thank you for purchasing a JVC product.

Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

## **IMPORTANT FOR LASER PRODUCTS**

### 1. CLASS 1 LASER PRODUCT

2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.

3. **CAUTION:** Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.

### 4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

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

### **Warning:**

If you need to operate the unit while driving, be sure to look around carefully or you may be involved in a traffic accident.

### **For safety...**

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

### **Temperature inside the car...**

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

### **Caution:**



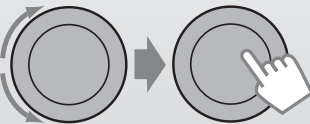


If the temperature inside the car is below 0°C, the movement of animation and text scroll will be halted on the display to prevent the display from being blurred. **LT** appears on the display. When the temperature increases, and the operating temperature is resumed, these functions will start working again.

### **Caution on volume setting:**

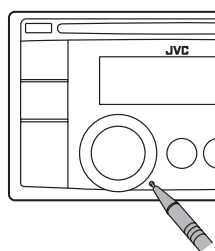
Digital devices (CD/USB) produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

## How to read this manual

The following icons/symbols are used to indicate:

	Press and hold the button(s) until the desired operation begins.
	Turn the control dial.
	Turn the control dial to make a selection, then press to confirm.
 XX	Reference page number
<XXXX>	Menu setting item
	Continued on the next page

## How to reset your unit



Your preset adjustments will also be erased (except the registered Bluetooth device). (🔍 14, 15)

## How to forcibly eject a disc



- You can forcibly eject the loaded disc even if the disc is locked. To lock/unlock the disc, 🔍 10.
- Be careful not to drop the disc when it ejects.
- If this does not work, reset your unit.

## CONTENTS

3	How to read this manual
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# Canceling the display demonstration

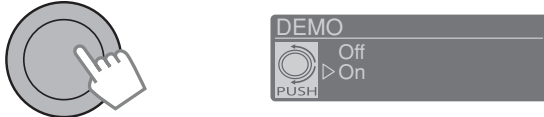
1 Turn on the power.



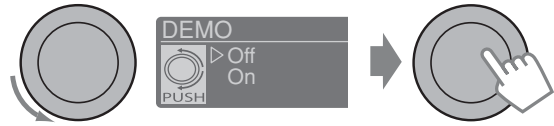
2 **MENU** [Hold]



3 Select <DEMO>.



4 Select <Off>.



5 Finish the procedure.



# Setting the clock

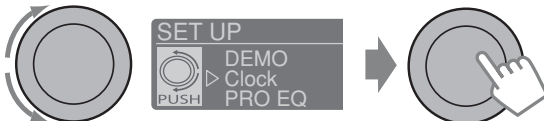
1 Turn on the power.



2 **MENU** [Hold]



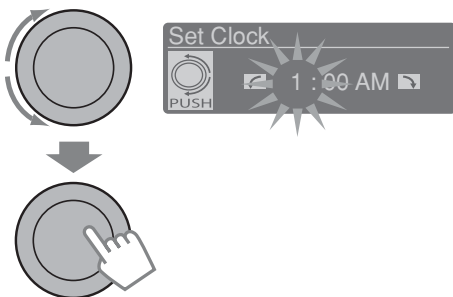
3 Select <Clock>.



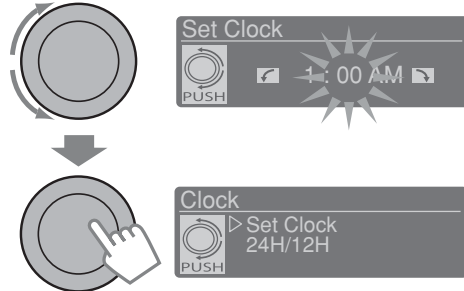
4 Select <Set Clock>.



5 Adjust the hour.



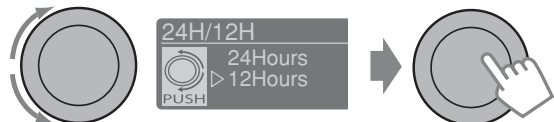
6 Adjust the minute.



7 Select <24H/12H>.



8 Select <24Hours> or <12Hours>.

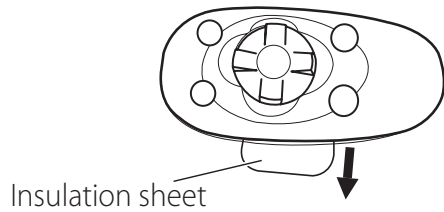


9 Finish the procedure.



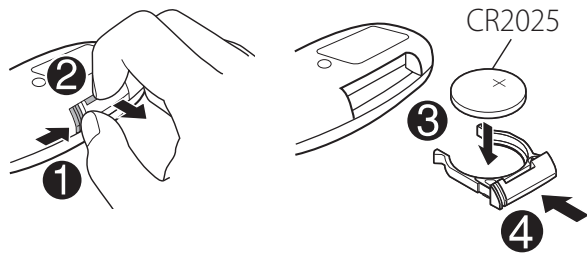
# Preparing the remote controller (RM-RK50)

When you use the remote controller for the first time, pull out the insulation sheet.



**If the effectiveness of the remote controller decreases, replace the battery.**

## Replacing the lithium coin battery



### Caution:

- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Battery shall not be exposed to excessive heat such as sunshine, fire, or the like.

### Warning (to prevent accidents and damage):

- Do not install any battery other than CR2025 or its equivalent.
- Do not leave the remote controller in a place (such as dashboards) exposed to direct sunlight for a long time.
- Store the battery in a place where children cannot reach.
- Do not recharge, short, disassemble, heat the battery, or dispose of it in a fire.
- Do not leave the battery with other metallic materials.
- Do not poke the battery with tweezers or similar tools.
- Wrap the battery with tape and insulate when throwing away or saving it.

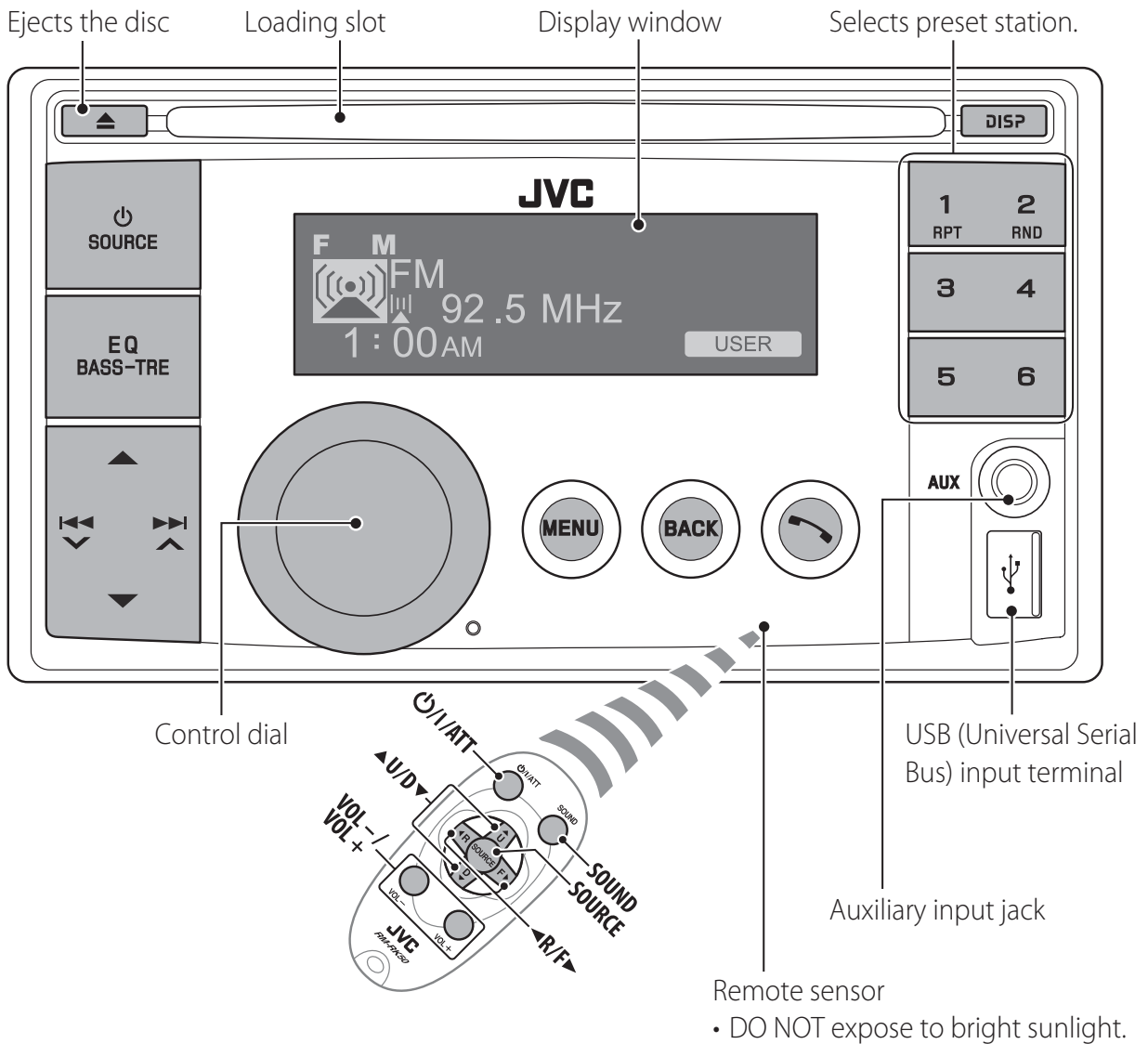
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This unit is equipped with the steering wheel remote control function.

Before operating, connect an exclusive remote adapter (not supplied) which matches your car to the steering wheel remote input terminal on the rear of the unit.

- For details, refer also to the instructions supplied with the remote adapter.
-

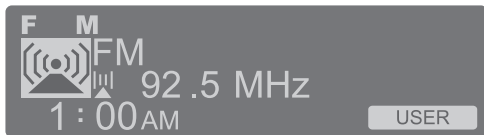
# Basic operations



## Changing the display information and pattern



Ex.: When tuner is selected as the source






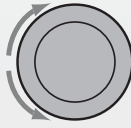


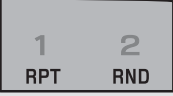










Source operation display

- If a station has been assigned a title, station title appears after about 5 seconds.
- To assign a title to a station, 9.



Audio level meter display  
(<Level Meter>, 29)

When you press or hold the following button(s)...

Main unit	Remote controller	General operation
		Turns on. • When the power is on, pressing <b>⏻/ATT</b> on the remote controller also mutes the sound or pauses. Press <b>⏻/ATT</b> again to cancel muting or resume playback.
		Turns off if pressed and held.
		Selects the available sources (if the power is turned on). • If the source is ready, playback also starts.
		Adjusts the volume level.
	—	Selects items.
	—	• Mutes the sound while listening to a source. If the source is “CD,” “USB FRONT/USB REAR” or “iPod FRONT/iPod REAR,” playback pauses. Press the control dial again to cancel muting or resume playback. • Confirms selection.
	—	• Enters repeat mode menu (  11, 19, 24) directly if pressed <b>RPT</b> . • Enters random mode menu directly (  11, 19, 24) if pressed <b>RND</b> .
		Selects the sound mode. • Enters tone level adjustment directly (  26) if pressed and held <b>EQ BASS-TRE</b> on the main unit.
	—	• Enters “Call Menu” screen* or answers incoming call when the unit rings. • Ends a call if pressed and held after a phone call conversation. • Switches the connected mobile phone to the last connected mobile phone if pressed and held. (  18) <i>* If there is no call list, the unit beeps.</i>
	—	• Returns to the previous menu. • Switches the controlling terminal for iPod playback if pressed and held. (  22, 30)
	—	<b>Power off</b> : Checks the current clock time. <b>Power on</b> : Changes the display information and pattern.

# Listening to the radio

1



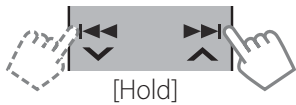
⇒ "FM" or "AM"

2



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

## Manual search



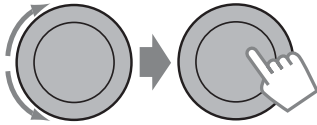
"M" appears, then press the button repeatedly.

## When an FM stereo broadcast is hard to receive

1



2



⇒ <Tuner> ⇒ <Stereo/Mono> ⇒

<Mono>

Reception improves, but stereo effect will be lost.

To restore the stereo effect, repeat the same procedure to select <Stereo>.

## Automatic presetting (FM)—

### SSM (Strong-station Sequential Memory)

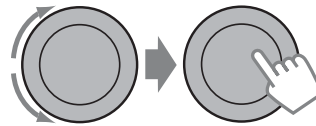
You can preset up to 18 stations for FM.

While listening to a station...

1



2



⇒ <Tuner> ⇒ <SSM> ⇒

<SSM 01 – 06 / SSM 07 – 12 /

SSM 13 – 18>

"SSM" appears and local stations with the strongest signals are searched and stored automatically.

To preset another 6 stations, repeat the above procedure by selecting one of the other 6 SSM setting ranges.



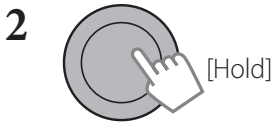
## Manual presetting (FM/AM)

You can preset up to 18 stations for FM and 6 stations for AM.

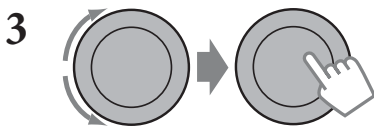
Ex.: Storing FM station of 92.50 MHz into preset number "4."



⇒ "92.50MHz"



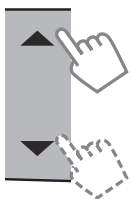
⇒ Shows the "Preset Mode" screen.



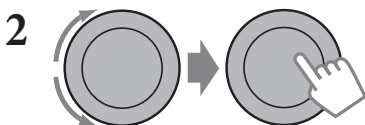
⇒ Selects preset number "4."  
"04" flashes.

- Pressing and holding the number buttons (1 – 6) can also store the current station to the selected number buttons (1 – 6).

## Selecting a preset station

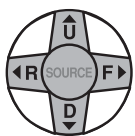


or



- Pressing the number buttons (1 – 6) can also select the preset stations (1 – 6).

## Using the remote controller



▲ **U/D** ▼ : Changes the preset stations

◀ **R/F** ▶ : Searches for stations

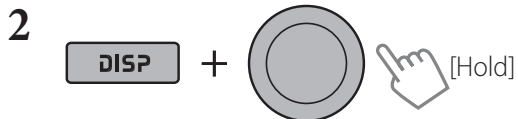
## Title assignment

You can assign titles up to 30 station frequencies (FM and AM) using 8 characters (maximum) for each title.

- If you try to assign titles to more than 30 station frequencies, "Name Full" appears. Delete unwanted titles before assignment.



⇒ "FM" or "AM"



⇒ Shows the title entry screen.

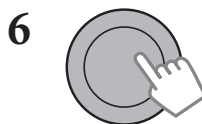


⇒ Selects a character.



⇒ Moves to the next (or previous) character position.

**5** Repeat steps **3** and **4** until you have finished entering the title.



To erase the entire title, press and hold **DISP** after step **2**, then press the control dial.

### Available characters

**A – Z** (upper case), **a – z** (lower case), **0 – 9** (numbers), and the following symbols:

!	"	#	\$	%	&	'	(	)
*	+	,	-	.	/	:	;	<
=	>	?	@	_	'	space		

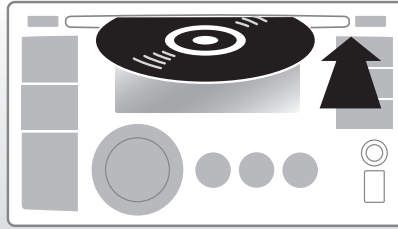
# Listening to a disc

1



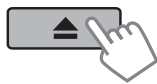
⇒ Turn on the power.

2



All tracks will be played repeatedly until you change the source or eject the disc.

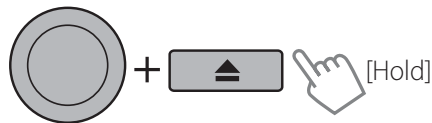
## Stopping playback and ejecting the disc



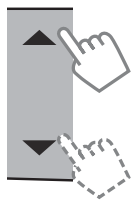
"No Disc" appears.

Remove the disc, then press **SOURCE** to listen to another playback source.

## Prohibiting disc ejection



To cancel the prohibition, repeat the same procedure.



Selects folder of the MP3/WMA



Selects track



Fast-forwards or reverses the track

## Selecting a folder/track on the list

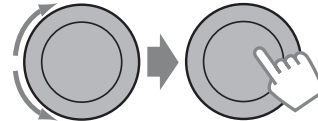
While listening to a disc...

1



⇒ Enter the list menu.

2



⇒ Select your desired item.

MP3/WMA: Select your desired folder, then the desired track by repeating this step.

- If the MP3/WMA disc contains many tracks, you can fast search ( $\pm 10$ ,  $\pm 100$ ,  $\pm 1000$ ) through the disc by turning the control dial quickly.
- To return to the previous menu, press **BACK**.

For MP3/WMA disc, you can also use the search menu (A to Z, 0 to 9, and OTHERS) to scroll through the list menu.


- "OTHERS" appears if the 1st character is not A to Z or 0 to 9, such as #, —, !, and etc.

While in list menu...

- 1 Press ▲/▼ to show the search menu.
  - The first character of the current folder/file name appears.
- 2 Press ▲/▼ to select your desired character. Then press the control dial to confirm.
  - The track list with the selected character appears.
- 3 Turn the control dial to select your desired track. Then press the control dial to confirm.

- Only the existing characters will be shown on the search menu.
- Press and hold ▲/▼ to continuously change the character of the search menu.
- If your disc contains many tracks, searching take some time.

## Using the remote controller

	▲ U/D ▼ : Selects folder of the MP3/WMA
	◀ R/F ▶ : Selects track
	◀ R/F ▶ : Fast-forwards or [Hold] reverses the track

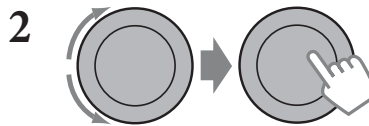
## Selecting the playback modes

You can use only one of the following playback modes at a time.



⇒ "Repeat" or "Random"

- Pressing and holding the control dial will enter the playback mode menu. Turn the control dial to make a selection (Repeat or Random), then press to confirm.



### Repeat

Track : Repeats current track

Folder : Repeats current folder

### Random

Folder : Randomly plays all tracks of current folder, then tracks of next folders

All : Randomly plays all tracks

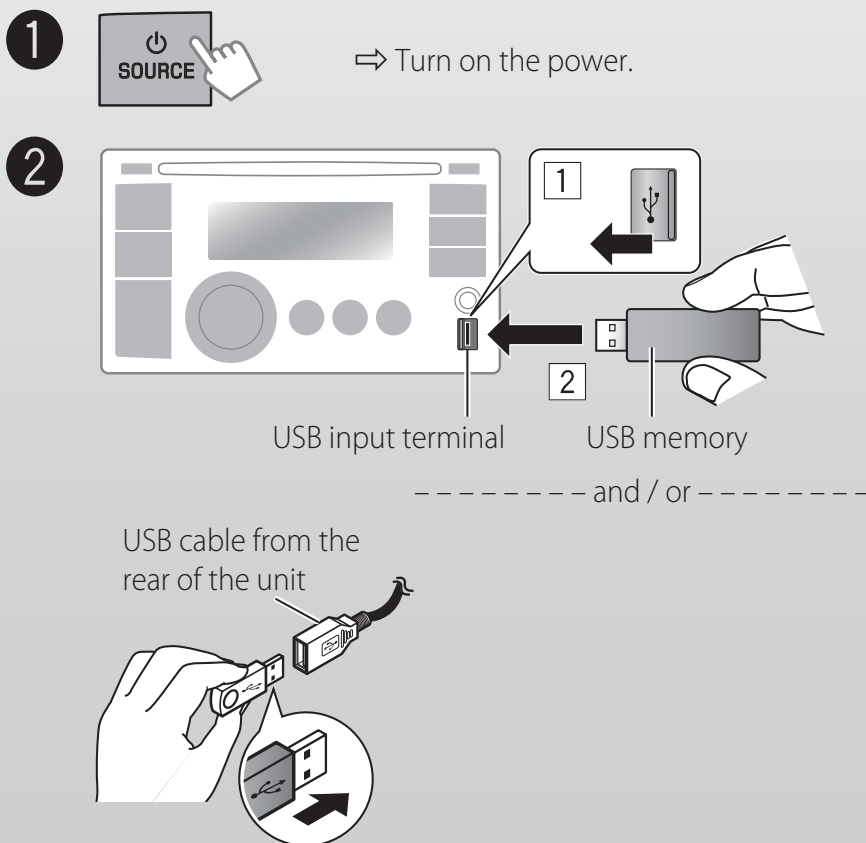
To cancel repeat play or random play, select "Off."

# Listening to the USB device

This unit is equipped with two USB input terminals (on the control panel and USB cable from the rear of the unit). You can use these two terminals at the same time.

- You can also connect a USB Bluetooth Adapter, KS-UBT1 (supplied), (🔍 14) and/or an Apple iPod/iPhone (🔍 22) to the USB input terminal(s).

**This unit can play MP3/WMA/WAV tracks stored in a USB mass storage class device (such as a USB memory, Digital Audio Player, etc.).**



All tracks will be played repeatedly until you change the source or detach the USB device.

## If you have turned off the power (without detaching the USB device)...

Pressing **SOURCE** turns on the power and playback starts from where it has been stopped previously.

- If a different USB device is currently attached, playback starts from the beginning.

## Stopping playback and detaching the USB device

Straightly pull it out from the unit.

"No USB" appears. Press **SOURCE** to listen to another playback source.


## You can operate the USB device in the same way you operate the files on a disc.

 10, 11

- You can listen to WAV files by following the MP3/WMA file operations. ( 10, 11)

### **Cautions:**

- Avoid using the USB device if it might hinder your safety driving.
- While “Reading” is shown on the display:
  - Do not pull out and attach the USB device repeatedly.
  - Do not pull out or attach another USB device.
- Do not start the car engine if a USB device is connected.
- This unit may not be able to play the files depending on the type of USB device.
- Operation and power supply may not work as intended for some USB devices.

- You cannot connect a computer to the USB input terminal of the unit.
- Make sure all important data has been backed up to avoid losing the data.
- Electrostatic shock at connecting a USB device may cause abnormal playback of the device. In this case, disconnect the USB device then reset this unit and the USB device.
- Do not leave a USB device in the car, expose to direct sunlight, or high temperature to avoid deformation or cause damages to the device.
- Some USB devices may not work immediately after you turn on the power.
- The detect time and response time may be very long for some USB devices (such as Digital Audio Player, etc.).
- For more details about USB operations,  35, 36.

## Using the Bluetooth® device

### **Bluetooth®**

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

- Refer to pages **i** and **ii** at the end of the manual to check the countries where you may use the Bluetooth® function.

### **Bluetooth profile**

This unit supports the following Bluetooth profiles;

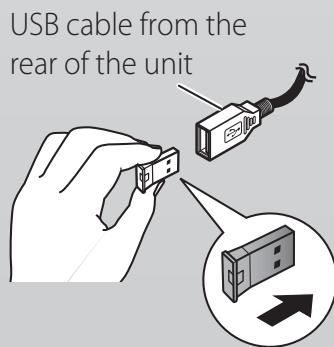
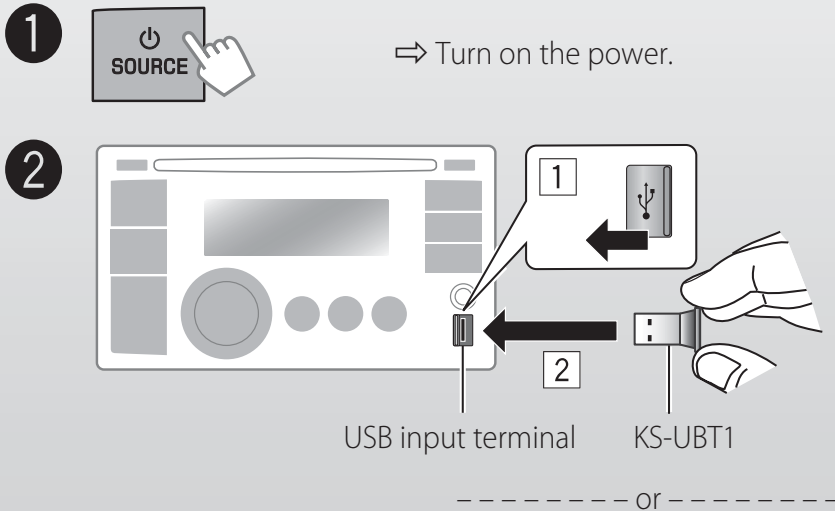
- HFP (Hands-Free Profile) 1.5
- OPP (Object Push Profile) 1.1
- PBAP (Phonebook Access Profile) 1.0
- A2DP (Advanced Audio Distribution Profile) 1.2
- AVRCP (Audio/Video Remote Control Profile) 1.3



Refer also to the instructions supplied with the Bluetooth device.

### Preparation:

- Connect the supplied USB Bluetooth Adapter (KS-UBT1) to one of the USB input terminals of the unit.
- Operate the device to turn on its Bluetooth function.




Only one USB Bluetooth Adapter can be detected at a time.

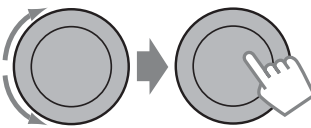
## Pairing a device

When you connect a Bluetooth device to the unit for the first time, make pairing between the unit and the device.


- Once the connection is established, it is registered in the unit even if you reset the unit. Up to five devices can be registered in total.
- Only one device for Bluetooth phone and one for Bluetooth audio can be connected at a time.

- 1  [Hold]

---

- 2   
⇒ <Bluetooth> ⇒ <New Pairing>

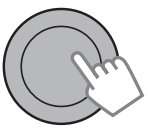
---

- 3   
⇒ Enter a PIN (Personal Identification Number) code in to the unit.  
You can enter any number you like (1-digit to 16-digit number).  
[Initial: 0000]  
• Some devices have their own PIN code. Enter the specified PIN code in to the unit.

---

- 4 Repeat step 3 until you have finished entering the PIN code.

---

- 5   
⇒ Confirm the entry.  
"Search Now Using Phone" appears.


---

- 6 Use the Bluetooth device to search.  
On the device to be connected, enter the same PIN code you have just entered for this unit.  
"Pairing OK" appears for a while, then "Connect Now Using Phone" appears.  
Phone icon appears when Bluetooth connection is established.


---

- 7 Use the Bluetooth device to connect\*.  
• Refer to the following table for connectivity results shown on the display.  
\* Operations may be different according to the connected device.

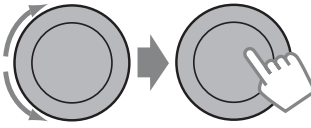
Display result	Hands-Free Call	Audio Streaming
Connect OK [Device Name]	○	○
Handsfree OK [Device Name]	○	—
Audio Stream OK [Device Name]	—	○
Connect Fail Try Reconnect	—	—

The device remains registered even after you disconnect the device. Use <Connect Phone> or <Connect Audio> (or activate <Auto Connect>,  20) to connect the same device from next time on.

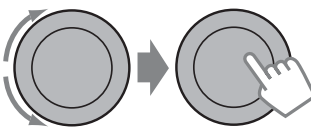
## Deleting a registered device

- 1  [Hold]


---

- 2   
⇒ <Bluetooth> ⇒ <Delete Pairing>

---

- 3   
⇒ Select a device you want to delete.  
"Delete OK?" appears on the display.

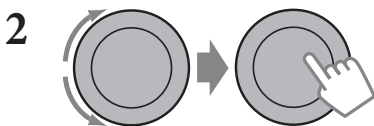
---

- 4   
⇒ Delete the selection.  
"OK" appears when the device is deleted.

- To return to the previous menu, press **BACK**.

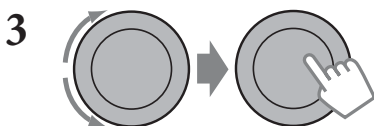


## Connecting/disconnecting a registered device



⇒ <Bluetooth> ⇒ <Connect Phone / Connect Audio> or <Disconnect Phone / Disconnect Audio>

- For connecting a device, go to step 3.
- For disconnecting a device, "Disconnecting" appears, then "Disconnected [Device Name]" appears on the display when the device is disconnected.



⇒ Select a device you want to connect.

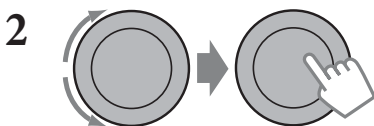
- "Connecting..." appears, then "Connected [Device Name]" appears on the display when the device is connected.

## Using a Bluetooth mobile phone

### Making a call



⇒ Enter "Call Menu" screen.




⇒ Select the method to make a call.

- **Dialed Calls**\*1: Shows the list of the phone numbers you have dialed. Go to the following step.


- **Received Calls**\*1: Shows the list of the received calls. Go to the following step.


- **Missed Calls**\*1: Shows the list of the missed calls. Go to the following step.

- **Phonebook**\*2: Shows the name/ phone number of the phonebook registered in the unit or from the connected phone\*3. Go to the following step.

–To copy the phonebook memory, <Phonebook Trans>,  21.


–If the phonebook contains many numbers, you can fast search ( $\pm 10$ ,  $\pm 100$ ,  $\pm 1000$  numbers) through the phonebook by turning the control dial quickly.


–To search through the phonebook,  17.

- **Dial Number**: Shows the "Dial Number" screen. ( 17)

- **Voice Dial** (only accessible when the connected mobile phone has the voice recognition system): Speak the name (registered words) you want to call when "Say Name Clearly" appears\*4,\*5.

\*1 "No History Found" appears and the unit beeps if there is no history stored.

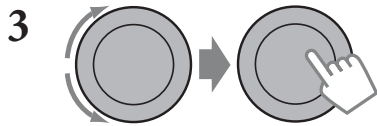
\*2 "No Entries Found" or "Send Phonebook Manually" appears depending on the <Phonebook Select> settings,  21.

\*3 Depends on the <Phonebook Select> settings,  21.

\*4 Operations may be different according to the connected device.

\*5 "Not Support" appears if the connected phone does not support this feature.





⇒ Select the name/phone number you want to call.



- When the sound is stopped or interrupted during the use of a Bluetooth device, turn off, then turn on the unit.
- If the sound is not yet restored, connect the device again using <Connect Phone>.

### How to enter phone number

- 1 Turn the control dial to select a number.
- 2 Press **◀◀◀/▶▶▶▶▶** to move the entry position.
- 3 Repeat steps **1** and **2** until you finish entering the phone number.
- 4 Press the control dial to confirm the entry.

### How to delete name/phone number

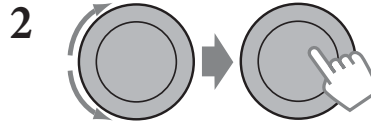
Only when <In Unit> is selected for <Phonebook Select>,  21.

- 1 Press  to enter "Call Menu" screen.
- 2 Display the list of name/phone numbers using one of the dialing method (see step 2 of "Making a call,"  16).
- 3 Turn the control dial to select the name/phone number you want to delete.
- 4 Press and hold **BACK** to enter the "Delete Entries" screen.
- 5 Turn the control dial to select "Delete" or "Delete All."
  - If "Delete" is selected, the selected name/phone number in step **3** is deleted.
  - If "Delete All" is selected, the listed numbers in step **2** selection are deleted.
- 6 Press the control dial to confirm.

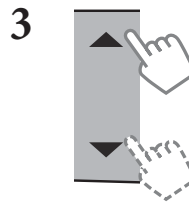
## Selecting a contact from the phonebook



⇒ Enter "Call Menu" screen.



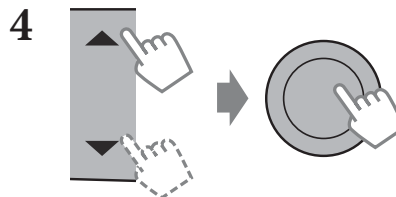
⇒ <Phonebook>



⇒ Show the search menu (A to Z, 0 to 9, and OTHERS).

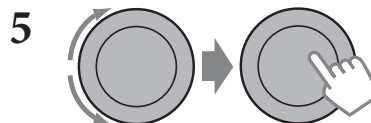
The first character of the first contact on the phonebook appears.

- "OTHERS" appears if the 1st character is not A to Z or 0 to 9, such as #, —, !, and etc.



⇒ Select your desired character.

The name list of the selected character appears.



⇒ Select your desired contact.

- To return to the previous menu, press **BACK**.





# Using a Bluetooth audio player

Operations and display indications differ depending on their availability on the connected device.

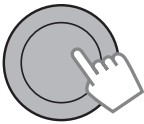


⇒ Select "BT FRONT" or "BT REAR."

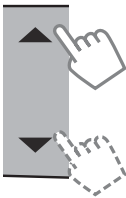
- If playback does not start automatically, operate the Bluetooth audio player to start playback.



Starts or resumes playback



Mutes the sound



Selects group/folder

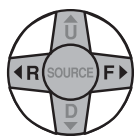


Forward skips or reverse skips



Fast-forwards or reverses the track

## Using the remote controller



◀R/F▶ : Forward skips or reverse skips

◀R/F▶ : Fast-forwards or reverses the track  
[Hold]

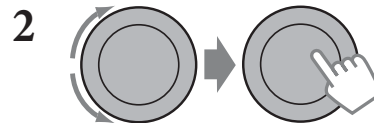
## Selecting the playback modes

- For Bluetooth devices that support AVRCP 1.3.



⇒ "Repeat" or "Random"

- Pressing and holding the control dial will enter the playback mode menu. Turn the control dial to make a selection (Repeat or Random), then press to confirm.



### Repeat

Track : Repeats current track

All : Repeats all tracks

Group : Repeats all track of current group

### Random

All : Randomly plays all tracks

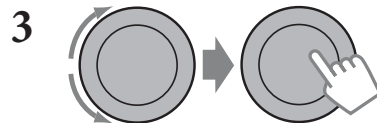
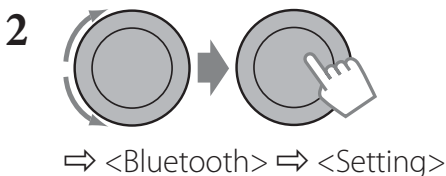
Group : Randomly plays all track of current group

To cancel repeat play or random play, select "Off."

- To return to the previous menu, press **BACK**.



# Changing the Bluetooth settings



⇒ Select a setting item, then repeat the procedure to change the setting accordingly.

- To return to the previous menu, press **BACK**.
- To exit from the menu, press **DISP** or **MENU**.

Setting item	Selectable setting, [ Initial: <u>Underlined</u> ]
<b>Auto Connect</b>	<ul style="list-style-type: none"> <li>• <u>Last</u> : The connection is established automatically with the last connected Bluetooth device when you turn on the unit.</li> <li>• <b>Off</b> : The unit does not connect the Bluetooth device automatically. Connect the device manually. (📞 16)</li> </ul>
<b>Auto Answer</b>	<ul style="list-style-type: none"> <li>• <u>On</u> : The unit answers the incoming calls automatically.</li> <li>• <b>Off</b> : The unit does not answer the calls automatically. Answer the calls manually. (📞 18)</li> </ul>
<b>Message Notice</b>	<ul style="list-style-type: none"> <li>• <u>On</u> : The unit informs you of the arrival of a message by ringing and displaying "Received Message."</li> <li>• <b>Off</b> : The unit does not inform you of the arrival of a message.</li> </ul>
<b>MIC Setting</b>	— : Adjust the volume of the microphone connected to the unit. [ <u>Level 01/02/03</u> ]
<b>NR/EC Mode</b>	<ul style="list-style-type: none"> <li>• <u>On</u> : The unit adjusts the Noise Reduction and Echo Cancellation of the microphone connected to the unit for clearer sound.</li> <li>• <b>Off</b> : Cancels.</li> </ul>
<b>Ring Tone</b>	<ul style="list-style-type: none"> <li>• <u>In Unit</u> : The unit rings to alert you when a call/Text Message comes in. <b>Call:</b> Select your preferred ring tone when a call comes in. [ <u>Tone 1/2/3</u> ] <b>Message:</b> Select your preferred ring tone when a Text Message comes in. [ <u>Tone 1/2/3</u> ]</li> <li>• <b>In Phone</b> : The unit rings (using the connected phones' ring tone) to alert you when a call/Text Message comes in. (The connected mobile phone rings if it does not support this feature.)</li> </ul>

Setting item	Selectable setting, [ Initial: <u>Underlined</u> ]
<b>Phonebook Trans</b>	— : You can copy the phonebook memory of a mobile phone into the unit (via OPP). Enter the PIN code to the unit to transfer the phonebook into the unit. You can transfer a maximum of 400 numbers.
<b>Phonebook Select</b> *1	<ul style="list-style-type: none"> <li>• <u>In Phone</u> : The unit browses the phonebook of the connected phone.</li> <li>• <u>In Unit</u> : The unit browses the phonebook registered in the unit.</li> </ul>
<b>Initialize</b>	<ul style="list-style-type: none"> <li>• <u>Yes</u> : Initialize all the Bluetooth settings (including stored pairing, phonebook, and etc.).</li> <li>• <u>No</u> : Cancels.</li> </ul>
<b>Information</b>	<ul style="list-style-type: none"> <li>• <b>My BT Name</b> : Shows the unit name.</li> <li>• <b>My Address</b> : Shows address of USB Bluetooth Adapter.</li> <li>• <b>BT Software Ver</b> : Shows the software version.</li> <li>• <b>Connected Phone</b>*2 : Shows connected phone name.</li> <li>• <b>Connected Audio</b>*2 : Shows connected audio device name.</li> </ul>

\*1 Selectable only when the connected phone supports PBAP.

\*2 Displayed only when a Bluetooth phone/audio player is connected.

### **Warning messages**

#### **Connection Error**

The device is registered but the connection has failed. Use <Connect Phone / Connect Audio> to connect the device again. (🔍 16)

#### **Error**

Try the operation again. If "Error" appears again, check if the device supports the function you have tried.

#### **Please Wait...**

The unit is preparing to use the Bluetooth function. If the message does not disappear, turn off and turn on the unit, then connect the device again (or reset the unit).

#### **Please Reset...**

Reset the unit and try the operation again. If "Please Reset..." appears again, consult your nearest JVC car audio dealers.

Bluetooth Information:

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

# Listening to the iPod/iPhone


You can connect the iPod/iPhone using the USB 2.0 cable (accessory of the iPod/iPhone) to the USB input terminal on the control panel or USB cable from the rear of the unit.

There are three control terminals:

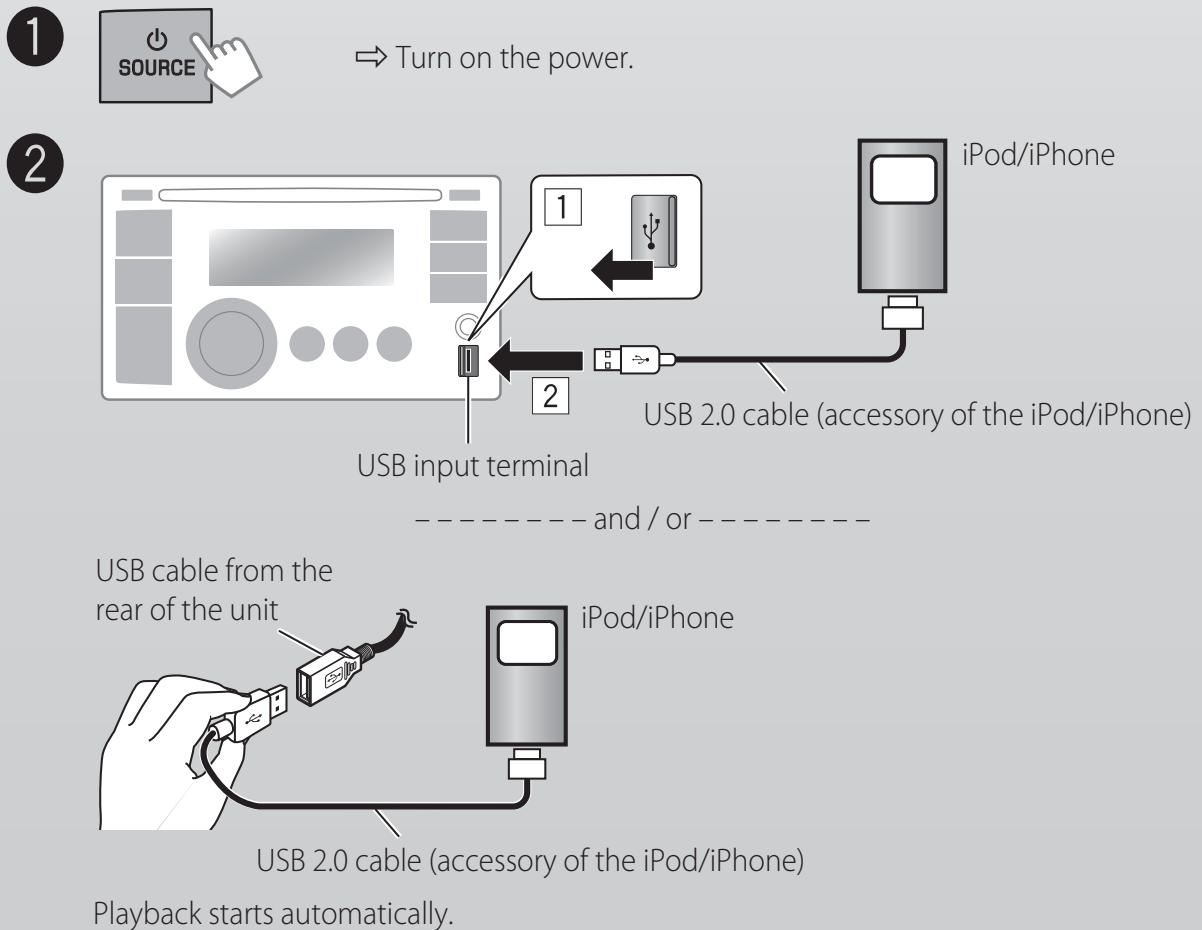
- <Headunit Mode> Control by this unit;
- <iPod Mode> Control by the connected iPod/iPhone;
- <External Mode> The sound of any functions (musics, games, applications, etc.) running on the connected iPod/iPhone is emitted through the speakers connected to this unit.

## Preparation:

Select the controlling terminal, <Headunit Mode>, <iPod Mode>, or <External Mode> for iPod playback:

- Press and hold **BACK** button.
- Make the selection from <iPod Switch> setting,  30.

The operations explained below are under <Headunit Mode>.



### Caution:

- Some of the applications in the connected iPod/iPhone may not work correctly with this unit.
- Avoid using the iPod/iPhone if it might hinder your safety while driving.
- Make sure all important data has been backed up to avoid losing the data.

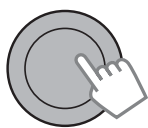
## Stopping playback and detaching the iPod/iPhone

Straightly pull the USB 2.0 cable out from the unit.

"No USB" appears. Press **SOURCE** to listen to another playback source.

- For details, refer also to the instructions supplied with your iPod/iPhone.

The following is not applicable in <External Mode>.



Starts playback or pauses/resumes playback

- While in <External Mode>, the sound mutes.



Selects track or chapter

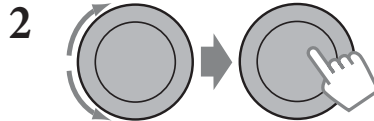


[Hold]

Fast-forwards or reverses the track

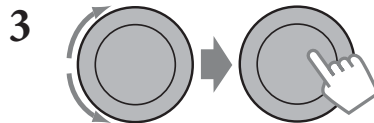
## Selecting a track from the menu

The following is not applicable in <iPod Mode> and <External Mode>.



⇒ Select the desired menu.

**Playlists** ↔ **Artists** ↔ **Albums** ↔  
**Songs** ↔ **Podcasts** ↔ **Genres** ↔  
**Composers** ↔ **Audiobooks** ↔ (back to the beginning)



⇒ Select your desired track.

Repeat this procedure until the desired track is selected.

- If the selected menu contains many tracks, you can fast search ( $\pm 10$ ,  $\pm 100$ ,  $\pm 1000$ ) through the menu by turning the control dial quickly.
- To return to the previous menu, press **BACK**.

You can also use the search menu (A to Z and 0 to 9) to scroll through the desired menu.

After you have selected your desired menu (in step 2)...

- 1 Press **▲/▼** to show the search menu.
  - The first character of the current file name appears.
- 2 Press **▲/▼** to select your desired character. Then press the control dial to confirm.
  - The track list with the selected character appears.
- 3 Turn the control dial to select your desired track. Then press the control dial to confirm.



- Only the existing characters will be shown on the search menu.
- Press and hold ▲/▼ to continuously change the character of the search menu.
- If your iPod/iPhone contains many tracks, searching take some time.
- Searching may not work on some of the layers of the selected menu.

## Selecting the playback modes

The following is not applicable in <iPod Mode> and <External Mode>.

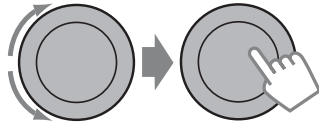
1



⇒ "Repeat" or "Random"

- Pressing and holding the control dial will enter the playback mode menu. Turn the control dial to make a selection (Repeat or Random), then press to confirm.

2



### Repeat

- One : Functions the same as "Repeat One" of the iPod
- All : Functions the same as "Repeat All" of the iPod

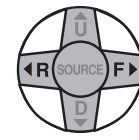
### Random

- Song : Functions the same as "Shuffle Songs" of the iPod
- Album : Functions the same as "Shuffle Albums" of the iPod

- To cancel repeat play or random play, select "Off."
- "Random Album" is not available for some iPod/iPhone.
- To return to the previous menu, press **BACK**.

## Using the remote controller

The following is not applicable in <External Mode>.



◀R/F▶ : Selects track or chapter

◀R/F▶ : Fast-forwards or  
[Hold] reverses the track

Notice:

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





# Listening to the other external components

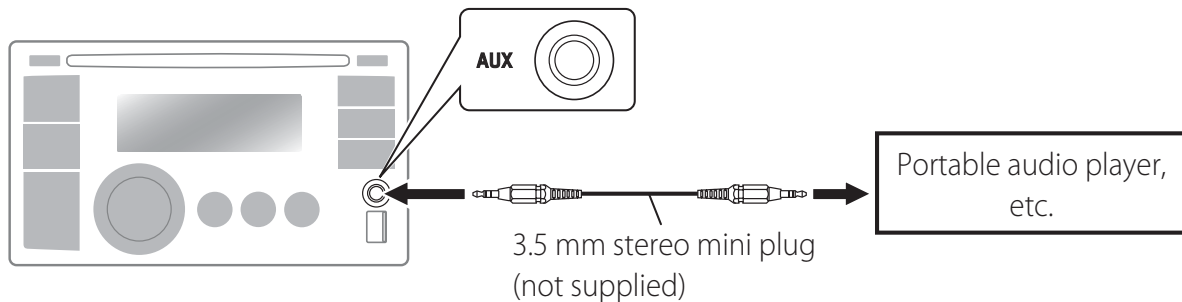
You can connect an external component to the AUX (auxiliary) input jack on the control panel.

- For details, refer also to the instructions supplied with the adapter or external components.

**Preparation:** Make sure <Show> is selected for the <Source Select> → <AUX Source> setting. (🔍 30)

- 1  ⇒ "AUX IN"
- 2 Turn on the connected component and start playing the source.
- 3  ⇒ Adjust the volume.
- 4 Adjust the sound as you want. (🔍 26)

## Connecting an external component to the AUX input jack



# Selecting a preset sound mode

You can select a preset sound mode suitable for the music genre.

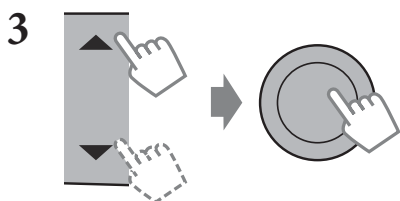


**FLAT → NATURAL → DYNAMIC → VOCAL**  
**→ BASS → USER →** (back to the beginning)

While listening, you can adjust the tone level of the selected sound mode.



⇒ Select the tone (Bass / Middle / Treble).

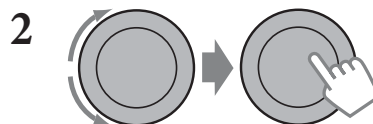


⇒ Adjust the level (-6 to +6) of the selected tone.

The sound mode is automatically stored and changed to "USER."

## Storing your own sound mode

You can store your own adjustments in memory.



⇒ <PRO EQ> ⇒ <Bass / Middle / Treble>

**3** Adjust the sound elements of the selected tone. (🔍 table below)

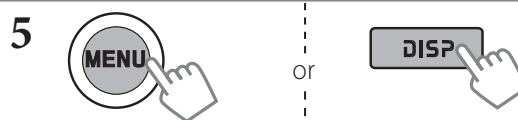
**1** Press ◀◀◀/▶▶▶ to adjust the frequency.

**2** Press ▲/▼ to adjust the level.

**3** Turn the control dial to adjust the Q-slope.

**4** Press the control dial to store the adjustment.

**4** Repeat steps **2** and **3** to adjust other tones.




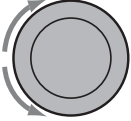

⇒ Exit from the menu.

The adjustments made will be stored automatically in "USER."

The current sound mode changes to "USER" automatically.

Tone	Sound element
Bass	Frequency: 50 Hz, 100 Hz, 200 Hz Level: -6 to +6 Q: Q0.7, Q1.0, Q1.4, Q2.0
Middle	Frequency: 500 Hz, 1 kHz, 2 kHz Level: -6 to +6 Q: Q0.7, Q1.0, Q1.4, Q2.0
Treble	Frequency: 5 kHz, 10 kHz, 15 kHz Level: -6 to +6 Q: Q0.7, Q1.0, Q1.4, Q2.0

# Menu operations

<b>1</b>  [Hold]	<b>2</b>  → 	<b>3</b> Repeat step <b>2</b> if necessary. <ul style="list-style-type: none"> <li>• To return to the previous menu, press <b>BACK</b>.</li> <li>• To exit from the menu, press <b>DISP</b> or <b>MENU</b>.</li> </ul>
---------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Category	Menu item	Selectable setting, [ Initial: <u>Underlined</u> ]
<b>DEMO</b> Display demonstration		<ul style="list-style-type: none"> <li>• <u>On</u> : Display demonstration will be activated automatically if no operation is done for about 20 seconds.</li> <li>• <b>Off</b> : Cancels. (🔍 4)</li> </ul>
<b>Clock</b>	<b>Set Clock</b>	[ <u>1:00AM</u> ] : Adjust the hour, then the minute. (🔍 4)
	<b>24H/12H</b>	<ul style="list-style-type: none"> <li>• <u>12Hours</u> : Select the time display mode. (🔍 4)</li> <li>• <b>24Hours</b></li> </ul>
<b>PRO EQ</b>	<b>Bass</b>	— : For settings, 🔍 26.
	<b>Middle</b>	
	<b>Treble</b>	
<b>Color</b>	<b>Button Zone</b>	<b>Color 01</b> : For settings, 🔍 31. [ <u>Color 06</u> ]
	<b>Display Zone</b>	— <b>Color 29, User,</b> : For settings, 🔍 31. [ <u>Color 01</u> ]
	<b>All Zone</b>	<b>COLORFLOW 1, 2, 3</b> : For settings, 🔍 31. [ <u>Color 06</u> ]
<b>Color Setup</b>	<b>Day Color</b>	<ul style="list-style-type: none"> <li>• <u>Button Zone</u> : For settings, 🔍 32.</li> <li>• <b>Display Zone</b></li> </ul>
	<b>Night Color</b>	
	<b>Menu Color</b>	<ul style="list-style-type: none"> <li>• <u>On</u> : Changes the display and buttons (except for ▲ / <b>DISP</b>) illumination during menu, list search and playback mode operations.</li> <li>• <b>Off</b> : The display and buttons illuminate in the color that you have set for &lt;Color&gt;.</li> </ul>
	<b>Ring Color*1</b>	<ul style="list-style-type: none"> <li>• <u>On</u> : When a call comes in, the display will flash in blue.               <ul style="list-style-type: none"> <li>• The display will change to the original color when the call is answered or the incoming call stops.</li> </ul>               When the unit receives a text message, the display only illuminate in blue.             </li> <li>• <b>Off</b> : Cancels.</li> </ul>

\*1 Displayed only when USB Bluetooth adapter, KS-UBT1 is connected.



Category	Menu item	Selectable setting, [ Initial: <u>Underlined</u> ]
Audio	<b>Fad/Bal</b> *2, *3 Fader/balance	<b>R6 – F6, [ 0 ]</b> : <b>Fad</b> (fader): Press ▲/▼ to adjust the front and rear speaker output balance. <b>L6 – R6, [ 0 ]</b> : <b>Bal</b> (balance): Press ◀◀▼ / ▶▶▲ to adjust the left and right speaker output balance.
	<b>Loud</b> Loudness	• <b>Loud 1/2/3</b> : Boost low and high frequencies to produce a well-balanced sound at a low volume level. • <b>Off</b> : Cancels.
	<b>Volume Adjust</b>	<b>Level –5 —</b> : Preset the volume adjustment level of each source (except FM), compared to the FM volume level. The volume level will automatically increase or decrease when you change the source. <b>Level +5,</b> <b>[ Level 0 ]</b> • Before making an adjustment, select the source you want to adjust. • “FIX” appears on the display if “FM” is selected as the source.
	<b>Subwoofer</b>	• <b>LPF</b> : Turn the control dial to select the cutoff frequency to the subwoofer. <b>Off:</b> All signals are sent to the subwoofer. <b>LPF 55Hz/LPF 85Hz/LPF 120Hz:</b> Frequencies higher than 55 Hz/85 Hz/120 Hz are cut off. • <b>Level</b> : Turn the control dial to adjust the subwoofer output level. <b>Level 00</b> to <b>Level 08</b> [ <b>Level 04</b> ] • <b>Phase</b> : Turn the control dial to select the subwoofer phase. <b>0deg</b> (normal) or <b>180deg</b> (reverse)
	<b>HPF</b> High Pass Filter	Select the cutoff frequency to the front/rear speakers. Set this to match the LPF settings. • <b>62Hz/95Hz/135Hz</b> : Frequencies lower than 62 Hz/95 Hz/135 Hz are cut off. • <b>Off</b> : All signals are sent to the front/rear speakers.
	<b>Beep</b> Keypress tone	• <b>On</b> : Activates the keypress tone. • <b>Off</b> : Deactivates the keypress tone.
	<b>Amplifier Gain</b> *4	• <b>High Power</b> : Vol 00 – Vol 50 • <b>Low Power</b> : Vol 00 – Vol 30 (Select if the maximum power of each speaker is less than 50 W to prevent damaging the speakers.)

\*2 If you are using a two-speaker system, set the fader level to <0>.

\*3 This adjustment will not affect the subwoofer output.

\*4 The volume level automatically changes to “Vol 30” if you change to <Low Power> with the volume level set higher than “Vol 30.”

Category	Menu item	Selectable setting, [ Initial: <u>Underlined</u> ]
Display	Dimmer	<ul style="list-style-type: none"> <li>• <u>Auto</u> : Dims the display when you turn on the headlights.*5</li> <li>• <b>On</b> : Dims the display and button illumination.</li> <li>• <b>Time Set</b> : Set the timer for dimmer. (🔍 33)</li> <li>• <b>Off</b> : Cancels.</li> </ul>
	Level Meter	<ul style="list-style-type: none"> <li>• <u>Meter 1</u> : Selects the different level meter patterns. (🔍 6)</li> <li>• <b>Meter 2</b> : Press <b>DISP</b> to show the selected level meter.</li> </ul>
	Scroll*6	<ul style="list-style-type: none"> <li>• <u>Once</u> : Scrolls the displayed information once.</li> <li>• <b>Auto</b> : Repeats scrolling (at 5-second intervals).</li> <li>• <b>Off</b> : Cancels.</li> </ul> <p>Pressing <b>DISP</b> for more than one second can scroll the display regardless of the setting.</p>
	Tag Display	<ul style="list-style-type: none"> <li>• <u>On</u> : Shows the Tag information while playing MP3/WMA/WAV tracks.</li> <li>• <b>Off</b> : Cancels.</li> </ul>
	LCD Type	<ul style="list-style-type: none"> <li>• <u>Negative</u> : Negative pattern of the display.</li> <li>• <b>Positive</b> : Positive pattern of the display.</li> <li>• <b>Auto</b> : Positive pattern will be selected during the day time*7, while negative pattern will be used during the night time*7.</li> </ul>
	Contrast	<ul style="list-style-type: none"> <li>• <b>Level 01</b> — : Adjust the display contrast to make the display indications clear and legible.</li> <li>• <b>Level 08</b></li> <li>• [ <u>Level 05</u> ]</li> </ul>
Bluetooth*8	<ul style="list-style-type: none"> <li>: For Bluetooth operations, (🔍 15, 16.</li> <li>: For Bluetooth settings, (🔍 20, 21.</li> </ul>	
Tuner	SSM*9 Strong-station Sequential Memory	<ul style="list-style-type: none"> <li>• <u>SSM 01 – 06</u> : For settings, (🔍 8.</li> <li>• <b>SSM 07 – 12</b></li> <li>• <b>SSM 13 – 18</b></li> </ul>

\*5 The illumination control lead connection is required. (See "Installation/Connection Manual.")

\*6 Some characters or symbols will not be shown correctly (or will be blanked) on the display.

\*7 Depends on the <Dimmer> setting.

\*8 Displayed only when the USB Bluetooth Adapter (KS-UBT1) is connected.

\*9 Displayed only when the source is "FM."



Category	Menu item	Selectable setting, [ Initial: <u>Underlined</u> ]
Tuner	<b>IF Band</b> Intermediate frequency band	<ul style="list-style-type: none"> <li>• <b><u>Auto</u></b> : Increases the tuner selectivity to reduce interference noises between adjacent stations. (Stereo effect may be lost.)</li> <li>• <b>Wide</b> : Subject to interference noises from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.</li> </ul>
	<b>Stereo/Mono</b> *10	<ul style="list-style-type: none"> <li>• <b><u>Stereo</u></b> : Restore the stereo effect.</li> <li>• <b>Mono</b> : Activate monaural mode to improve FM reception, but stereo effect will be lost. (🔍 8)</li> </ul>
Source Select	<b>AM Source</b> *11	<ul style="list-style-type: none"> <li>• <b><u>Show</u></b> : Enable "AM" in source selection.</li> <li>• <b>Hide</b> : Disable "AM" in source selection.</li> </ul>
	<b>AUX Source</b> *12	<ul style="list-style-type: none"> <li>• <b><u>Show</u></b> : Enable "AUX IN" in source selection.</li> <li>• <b>Hide</b> : Disable "AUX IN" in source selection.</li> </ul>
	<b>Bluetooth Audio</b> *13	<ul style="list-style-type: none"> <li>• <b><u>Show</u></b> : Enable "BT FRONT/BT REAR" in source selection.</li> <li>• <b>Hide</b> : Disable "BT FRONT/BT REAR" in source selection.</li> </ul>
USB *14	<b>Drive Change</b>	: Select to change the drive when a multiple drives device is connected to the USB input terminal (FRONT/REAR).
iPod *15	<b>iPod Switch</b> *16 iPod/iPhone control	<ul style="list-style-type: none"> <li>• <b><u>Headunit Mode</u></b> : Controls iPod playback through the unit.</li> <li>• <b>iPod Mode</b> : Controls iPod playback through the iPod/iPhone.</li> <li>• <b>External Mode</b> *17 : The sound of any functions (musics, games, applications, etc.) running on the connected iPod/iPhone is emitted through the speakers connected to this unit.</li> </ul>
	<b>Audiobooks</b> *18 Speed control of "Audiobooks"	<ul style="list-style-type: none"> <li>• <b>Normal</b> : You can select the playback speed of the Audiobooks sound file in your iPod/iPhone.</li> <li>• <b>Faster</b></li> <li>• <b>Slower</b> : Initial selected item depends on your iPod/iPhone setting.</li> </ul>

\*10 Displayed only when the source is "FM."

\*11 Displayed only when any source other than "AM" is selected.

\*12 Displayed only when any source other than "AUX IN" is selected.

\*13 Displayed only when any source other than "BT FRONT/BT REAR" is selected.

\*14 Displayed only when the source is "USB FRONT/USB REAR."

\*15 Displayed only when the source is "iPod FRONT/iPod REAR."

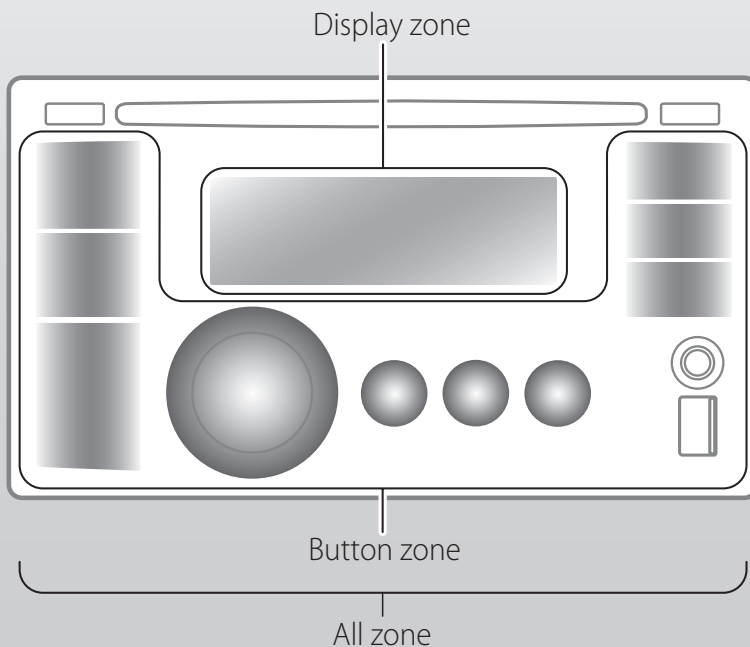
\*16 Settings can be made only if <iPod Mode> is available for the connected iPod/iPhone. (🔍 36)

\*17 While in <External Mode>, the display always show "External Mode."

\*18 Functions only when <iPod Switch> is set to <Headunit Mode>.

# Selecting the variable buttons and display color illumination

You can select your preferred color for buttons illumination (except for ▲ / DISP) and display color separately.



**1** [Hold]

**2** →   
 ⇒ <Color> ⇒ <Button Zone / Display Zone / All Zone>

**3** →   
 ⇒ Select your preferred color from one of the 29 preset colors, <User> color, or <COLORFLOW 1/2/3>.

**4** Repeat steps **2** and **3** to select a different zone and your preferred color.   
 • If <All Zone> is selected in step **2**, the buttons and display illumination changed to the current/selected <Button Zone> color.   
 You can also change the <All Zone> color to one of your preferred color by performing step **3**.

**5**   
 ⇒ Exit from the setting.


# Creating your own day and night colors—User

You can create your own colors for <Day Color> and <Night Color> to apply to button zone and display zone.

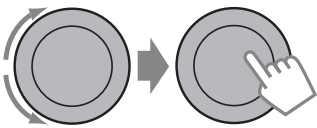
- <Day Color>      Displayed when <Dimmer> is set to <Off>. (🔍 29)
- <Night Color>    Displayed when <Dimmer> is set to <On>. (🔍 29)

Menu hierarchy		Operation	
Color Setup	Day Color	• Button Zone	See the following.
		• Display Zone	Press <b>BACK</b> after step 4, then select <Display Zone> in step 2.
	Night Color	• Button Zone	Press <b>BACK</b> twice after step 4, then select <Night Color> in step 2.
		• Display Zone	

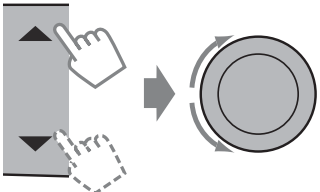
Ex.: Creating <User> color for <Button Zone> in <Day Color>.


**1**  [Hold]

---


**2**   
⇒ <Color Setup> ⇒ <Day Color> ⇒ <Button Zone>

---

**3**   
⇒ Select a primary color (**Red** ↔ **Green** ↔ **Blue**), then adjust the level (00 to 31).  
• Repeat this procedure until you have adjusted all the three primary colors.

**4**   
⇒ Confirm the settings.

---


**5**   
⇒ Exit from the setting.


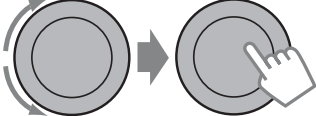
If "00" is selected for all the primary colors (as in step 3) for <Display Zone>, nothing appear on the display.

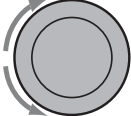



# Setting the time for dimmer


You can set the start/end time for dimmer.

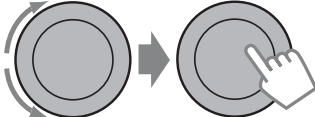
- 

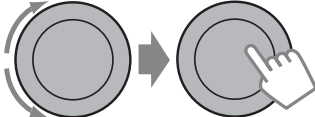
1  [Hold]
- 

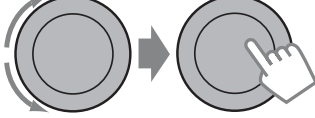
2  → 

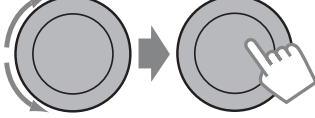
⇒ <Display> ⇒ <Dimmer> ⇒  
<Time Set>





Time Set  
PUSH 06PM-07AM
- 

3 

⇒ Adjust the dimmer start time.
- 

4 

⇒ Adjust the dimmer end time.
- 

5 

⇒ Exit from the setting.

## More about this unit

### Basic operations

#### General

- If you turn off the power while listening to a track, playback will start from where it had been stopped previously next time you turn on the power.
- If no operation is done for about 60 seconds after pressing **MENU** button, the operation will be canceled.

### Tuner operations

#### Storing stations in memory

- During SSM search...
  - All previously stored stations are erased and the stations are stored anew.
  - When SSM is over, the station stored in the lowest preset number will be automatically tuned in.
- When storing a station manually, the previously preset station is erased when a new station is stored in the same preset number.



## Disc/USB operations

### **Caution for DualDisc playback**

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

### **General**

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA formats.
- If you change the source while listening to a disc, playback stops. Next time you select “CD” as the playback source, playback will start from where it had been stopped previously.
- When a disc is inserted upside down, “Please Eject” appears on the display. Press ▲ to eject the disc.
- If the ejected disc is not removed within 15 seconds, it is automatically inserted into the loading slot again to protect it from dust.
- In this manual words “track” and “file” are interchangeably used.
- While fast-forwarding or reversing on an MP3/WMA/WAV file, you can only hear intermittent sound.
- File/folder list may not appear correctly if too many hierarchies and folders are used.

### **Playing a CD-R or CD-RW**

- Use only “finalized” CD-Rs or CD-RWs.
- This unit can only play back files of the same type as those detected first if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.

- Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, or for the following reasons:
    - Discs are dirty or scratched.
    - Moisture condensation has occurred on the lens inside the unit.
    - The pickup lens inside the unit is dirty.
    - The files on the CD-R/CD-RW are written using the “Packet Write” method.
    - There are improper recording conditions (missing data, etc.) or media conditions (stained, scratched, warped, etc.).
  - CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
  - Do not use the following CD-Rs or CD-RWs:
    - Discs with stickers, labels, or a protective seal stuck to the surface.
    - Discs on which labels can be directly printed by an ink jet printer.
- Using these discs under high temperature or high humidity may cause malfunctions or damage to the unit.

### **Playing an MP3/WMA disc**

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and show WMA Tag.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
  - Bit rate of MP3/WMA: 5 kbps — 320 kbps
  - Sampling frequency of MP3:
    - 32 kHz, 44.1 kHz, 48 kHz (for MPEG-1)
    - 16 kHz, 22.05 kHz, 24 kHz (for MPEG-2)
  - Sampling frequency of WMA:
    - 8 kHz — 48 kHz

- The maximum number of characters for file/folder names is 25 characters (including <.mp3>, <.wma>); 128 characters for MP3/WMA Tag.
- This unit can recognize a total of 20 000 files and 2 000 folders (999 files per folder).
- This unit can play back files recorded in VBR (variable bit rate).  
Files recorded in VBR have a discrepancy in the elapsed time display, and do not show the actual elapsed time. In particular, this difference becomes noticeable after performing the search function.
- This unit cannot play back the following files:
  - MP3 files encoded in MP3i and MP3 PRO format.
  - MP3 files encoded in an inappropriate format.
  - MP3 files encoded with Layer 1/2.
  - WMA files encoded in lossless, professional, and voice format.
  - WMA files which are not based upon Windows Media® Audio.
  - WMA files copy-protected with DRM.
  - Files which have data such as AIFF, ATRAC3, etc.
- The search function works but search speed is not constant.

### **Playing MP3/WMA/WAV tracks from a USB device**

- While playing from a USB device, the playback order may differ from other players.
- This unit may be unable to play back some USB devices or some files due to their characteristics or recording conditions.
- This unit is compatible with the USB Full-Speed.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.

- When connecting a USB mass storage class device, refer also to its instructions.
- This unit may not work properly with some USB hub or USB card reader.
- If the connected USB device does not have the correct files, "No File" appears.
- This unit can show ID3 Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 and WMA/WAV Tag.
- This unit can play back MP3/WMA/WAV files meeting the conditions below:

#### MP3:

- Bit rate: 32 kbps — 320 kbps (for MPEG-1)  
8 kbps — 160 kbps (for MPEG-2)

#### –Sampling frequency:

- 32 kHz, 44.1 kHz, 48 kHz (for MPEG-1)  
16 kHz, 22.05 kHz, 24 kHz (for MPEG-2)

#### WMA:

- Bit rate: 5 kbps — 320 kbps
- Sampling frequency: 8 kHz — 48 kHz
- Channel: 1 ch/2 ch

#### WAV:

- Bit rate: Linear PCM at 705 kbps and 1 411 kbps
- Sampling frequency: 44.1 kHz
- Channel: 1 ch/2 ch

- This unit can play back MP3 files recorded in VBR (variable bit rate).
- The maximum number of characters for folder and file names is 25 characters (including <.mp3>, <.wma>, <.wav>); 128 characters for MP3/WMA/WAV Tag.
- This unit can recognize a total of 20 000 files and 2 000 folders (999 files per folder).
- The unit cannot recognize a USB mass storage class device whose rating is other than 5 V and exceeds 500 mA.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.











- Do not use a USB device with 2 or more partitions.
- When connecting with a USB cable, use the USB 2.0 cable.
- This unit may not recognize some of the USB device connected through a USB card reader.
- This unit may not play back files in a USB device properly when using a USB extension cord.
- This unit cannot assure proper functions or supply power to all types of USB devices.

## Bluetooth operations

- While driving, do not perform complicated operation such as dialing the numbers, using phonebook, etc. When you perform these operations, stop your car in a safe place.
- Some Bluetooth devices may not be connected to this unit depending on the Bluetooth version of the device.
- If you connect a different USB Bluetooth Adapter, all the registered devices and information will be cleared.
- This unit may not work for some Bluetooth devices.
- Connecting condition may vary depending on the circumstances around you.
- If you turn off the unit, detach the control panel, or unplug the USB Bluetooth Adapter during a phone call conversation, the Bluetooth connection is disconnected. Continue the conversation using your mobile phone.
- When the unit is turned off, the device is disconnected.

## Icons for phone types:

These icons indicate the phone type of number entries in the Phonebook	These icons indicate the type of connected phone/audio devices
 : Cellular phone	 : Phone only
 : Household phone	 : Phone/Audio
 : Office	 : Audio only
 : General	
 : Other than above	
 : Unknown	

## iPod/iPhone operations

- You can control the following types of iPods/iPhone:
  - iPod with video (5th Generation)\*
  - iPod classic
  - iPod nano (1st Generation)\*
  - iPod nano (2nd, 3rd, 4th, 5th Generation)
  - iPod touch
  - iPod touch (2nd Generation)
  - iPhone/iPhone 3G/iPhone 3GS
- \* *<iPod Mode> and <External Mode> are not available.*
- It is not possible to browse video files on the "Videos" menu in <Headunit Mode>.
- If the iPod does not play correctly, please update your iPod software to the latest version. For details about updating your iPod, visit <<http://www.apple.com>>.
- When you turn on this unit, the iPod is charged through this unit.
- iPod shuffle cannot be used with this unit.

- The song order displayed on the selection menu of this unit may differ from that of the iPod.
- The text information may not be displayed correctly (eg. accented letters).
- If the text information includes more than 16 characters, it scrolls on the display. This unit can display up to 128 characters (ASCII code).

## Menu operations

- <Auto> setting for <Dimmer> may not work correctly on some vehicles, particularly on those having a control dial for dimming. In this case, change the <Dimmer> setting to any other than <Auto>.
- If <LCD Type> is set to <Auto>, the display pattern will change to the <Positive> or <Negative> pattern depending on the <Dimmer> setting.

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JVC bears no responsibility for any loss of data in an iPod/iPhone and/or USB mass storage class device while using this System.

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- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Victor Company of Japan, Limited (JVC) is under license. Other trademarks and trade names are those of their respective owners.
- “Made for iPod” means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.
- “Works with iPhone” means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.
- Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.
- iPod is a trademark of Apple Inc., registered in the U.S. and other countries.
- iPhone is a trademark of Apple Inc.

# Maintenance

## Moisture condensation

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

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the unit may malfunction.

In this case, eject the disc and leave the unit turned on for a few hours until the moisture has evaporated.

## How to handle discs

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

Center holder



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

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

- Make sure to store discs in cases after use.

## To keep discs clean

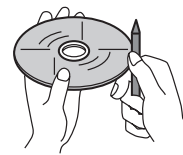
A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



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

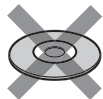

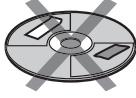


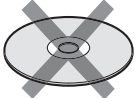
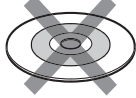
## To play new discs

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



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

## Do not use the following discs:

Single CD (8 cm) disc 	Warped disc 
Sticker and sticker residue 	Stick-on label 
Unusual shape 	C-thru Disc (semitransparent disc) 
Transparent or semitransparent parts on its recording area 	

# Troubleshooting

	Symptom	Remedy/Cause
General	Sound cannot be heard from the speakers.	<ul style="list-style-type: none"> <li>• Adjust the volume to the optimum level.</li> <li>• Make sure the unit is not muted/paused (🔍 7).</li> <li>• Check the cords and connections.</li> </ul>
	The unit does not work at all.	Reset the unit. (🔍 3)
	"AUX IN" cannot be selected.	Check the <Source Select> → <AUX Source> setting. (🔍 30)
	Nothing appear on the display.	Check the <User> color settings. (🔍 32)
FM/AM	SSM automatic presetting does not work.	Store stations manually.
	Static noise while listening to the radio.	Connect the antenna firmly.
	"AM" cannot be selected.	Check the <Source Select> → <AM Source> setting. (🔍 30)
Disc playback	Disc cannot be played back.	Insert the disc correctly.
	<ul style="list-style-type: none"> <li>• CD-R/CD-RW cannot be played back.</li> <li>• Tracks on the CD-R/CD-RW cannot be skipped.</li> </ul>	<ul style="list-style-type: none"> <li>• Insert a finalized CD-R/CD-RW.</li> <li>• Finalize the CD-R/CD-RW with the component which you used for recording.</li> </ul>
	<ul style="list-style-type: none"> <li>• Disc can neither be played back nor ejected.</li> <li>• "No Eject" appears on the display.</li> </ul>	<ul style="list-style-type: none"> <li>• Unlock the disc. (🔍 10)</li> <li>• Eject the disc forcibly. (🔍 3)</li> </ul>
	Disc sound is sometimes interrupted.	<ul style="list-style-type: none"> <li>• Stop playback while driving on rough roads.</li> <li>• Change the disc.</li> <li>• Check the cords and connections.</li> </ul>
	Disc cannot be recognized ("No Disc," "CD Loading Error," or "Eject Error" flashes).	Eject the disc forcibly. (🔍 3)
	"Please Eject" appears on the display.	This occurs sometimes due to over-heating. Eject the disc or change to another playback source.



	Symptom	Remedy/Cause
MP3/WMA playback	Disc cannot be played back.	<ul style="list-style-type: none"> <li>• Use a disc with MP3/WMA tracks recorded in a format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet.</li> <li>• Add the extension code &lt;.mp3&gt; or &lt;.wma&gt; to the file names.</li> </ul>
	Noise is generated.	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	A longer readout time is required ("Reading" keeps flashing on the display).	Do not use too many hierarchical levels and folders.
	Tracks do not play back in the order you have intended them to play.	The playback order is determined by the file name. Folder with numbers on the initial as their names are sorted in numerical order. However, folder with no numbers on the initial of their names are sorted according to the file system of the CD.
	The elapsed playing time is not correct.	This sometimes occurs during playback. This is caused by how the tracks are recorded on the disc (eg. variable bit rate).
	"Please Eject" appears on the display.	Insert a disc that contains MP3/WMA tracks.
	The unit beeps when a folder is selected.	Selected folder is an empty folder*. Select another folder that contains MP3/WMA tracks.
	"Not Support" appears on the display and track skips.	Skip to the next track encoded in an appropriate format or to the next non-copy-protected WMA track.
	The correct characters are not displayed (e.g. album name).	This unit can only display letters (capital: A – Z, small: a – z), numbers, and a limited number of symbols. (🔍 9)

\* Folder that is physically empty or folder that contains data but does not contain valid MP3/WMA track.



	Symptom	Remedy/Cause
USB device playback	Noise is generated.	The track played back is not an MP3/WMA/WAV track. Skip to another file. (Do not add the extension code <.mp3>, <.wma>, or <.wav> to non-MP3/WMA/WAV tracks.)
	"Reading" keeps flashing on the display.	<ul style="list-style-type: none"> <li>• Readout time varies depending on the USB device.</li> <li>• Do not use too many hierarchy or folders.</li> <li>• Turn off the power then on again.</li> <li>• Do not pull out or connect the USB device repeatedly while "Reading" is displayed on the display.</li> </ul>
	"Read Failed" appears on the display.	The connected USB device is not working properly. Connect the USB device again.
	"No File" appears on the display.	Check whether the selected folder, the connected USB device, or the iPod/iPhone contains a playable file.
	"Not Support" appears and track skips.	Check whether the track is a playable file format.
	Tracks/folders are not played back in the order you have intended.	The playback order is determined by the file name. Folders with numbers on the initial of their names are sorted in numerical order. However, folders with no numbers on the initial of their names are sorted according to the file system of the USB device.
	<ul style="list-style-type: none"> <li>• "No USB" appears on the display.</li> <li>• The unit cannot detect the USB device.</li> </ul>	<ul style="list-style-type: none"> <li>• Check whether the connected USB device or the iPod/iPhone is compatible with this unit.</li> <li>• The USB device is not connected properly. Connect the USB device again.</li> </ul>
	While playing a track, sound is sometimes interrupted.	The tracks have not been properly copied into the USB device. Copy tracks again into the USB device, and try again.
	Correct characters are not displayed (e.g. album name).	This unit can only display letters (capital: A – Z, small: a – z), numbers, and a limited number of symbols. (☺ 9)





	Symptom	Remedy/Cause
Bluetooth	The unit does not detect the Bluetooth device.	<ul style="list-style-type: none"> <li>• Search from the Bluetooth device again.</li> <li>• Reset the unit (🔍 3), then search from the Bluetooth device again.</li> </ul>
	The unit does not make pairing with the Bluetooth device.	Enter the same PIN code for both the unit and target device.
	Echo or noise occurs.	Adjust the microphone unit's position.
	Phone sound quality is poor.	<ul style="list-style-type: none"> <li>• Reduce the distance between the unit and the Bluetooth mobile phone.</li> <li>• Move the car to a place where you can get a better signal reception.</li> </ul>
	The unit does not response when you tried to copy the phonebook to the unit.	You may have tried to copy the same entries (as stored) to the unit. Press <b>DISP</b> or <b>BACK</b> to exit.
	The sound is interrupted or skipped during playback of a Bluetooth audio device.	<ul style="list-style-type: none"> <li>• Reduce the distance between the unit and the Bluetooth audio device.</li> <li>• Disconnect the device connected for Bluetooth Phone.</li> <li>• Turn off, then turn on the unit.</li> <li>• Connect the Bluetooth audio device again, when the sound is not yet restored.</li> </ul>
	The connected audio player cannot be controlled.	<ul style="list-style-type: none"> <li>• Check whether the connected audio player supports AVRCP (Audio/Video Remote Control Profile). (Operations depend on the connected audio player.)</li> <li>• Disconnect and connect the Bluetooth player again.</li> </ul>
	"Voice Dial" is not successful.	<ul style="list-style-type: none"> <li>• Use "Voice Dial" calling method in a more quiet environment.</li> <li>• Reduce the distance from the microphone when you speak the name.</li> <li>• Change the &lt;NR/EC Mode&gt; to &lt;Off&gt; (🔍 20), then try again.</li> </ul>

	Symptom	Remedy/Cause
iPod/iPhone	The iPod does not turn on or does not work.	<ul style="list-style-type: none"> <li>• Check the connecting cable and its connection.</li> <li>• Update the firmware version of the iPod/iPhone.</li> <li>• Charge the battery of the iPod/iPhone.</li> <li>• Reset the iPod/iPhone.</li> <li>• Check whether &lt;iPod Switch&gt; setting is appropriate. (🔍 30)</li> </ul>
	The sound is distorted.	Deactivate the equalizer either on this unit or the iPod/iPhone.
	A lot of noise is generated.	Turn off (uncheck) the "VoiceOver" feature of the iPod. For details, visit < <a href="http://www.apple.com">http://www.apple.com</a> >.
	Playback stops.	The headphones are disconnected during playback. Restart the playback operation. (🔍 22)
	"No File" appears on the display.	No tracks are stored. Import tracks to the iPod/iPhone.
	"Restricted" appears on the display.	Check whether the connected iPod/iPhone is compatible with this unit. (🔍 36)



# Specifications

AUDIO AMPLIFIER SECTION	Maximum Power Output:	Front/ Rear:	50 W per channel	
	Continuous Power Output (RMS):	Front/ Rear:	20 W per channel into 4 $\Omega$ , 40 Hz to 20 000 Hz at no more than 1% total harmonic distortion.	
	Load Impedance:		4 $\Omega$ (4 $\Omega$ to 8 $\Omega$ allowance)	
	Tone Control Range:	Bass:	$\pm 12$ dB (50 Hz, 100 Hz, 200 Hz) Q0.7, Q1.0, Q1.4, Q2.0	
		Middle:	$\pm 12$ dB (0.5 kHz, 1.0 kHz, 2.0 kHz) Q0.7, Q1.0, Q1.4, Q2.0	
		Treble:	$\pm 12$ dB (5.0 kHz, 10.0 kHz, 15.0 kHz) Q0.7, Q1.0, Q1.4, Q2.0	
	Frequency Response:		40 Hz to 20 000 Hz	
	Signal-to-Noise Ratio:		70 dB	
	Line-Out Level/Impedance:		5.0 V/20 k $\Omega$ load (full scale)	
	Subwoofer-Out Level/Impedance:		5.0 V/20 k $\Omega$ load (full scale)	
Output Impedance:		1 k $\Omega$		
Other Terminal:	AUX (auxiliary) input jack, USB input terminal, USB rear cable, Antenna input, Steering wheel remote input			
TUNER SECTION	Frequency Range:	FM:	87.5 MHz to 108.0 MHz	
		AM:	531 kHz to 1 602 kHz	
	FM Tuner:	Usable Sensitivity:	9.3 dBf (0.8 $\mu$ V/75 $\Omega$ )	
		50 dB Quieting Sensitivity:	16.3 dBf (1.8 $\mu$ V/75 $\Omega$ )	
		Alternate Channel Selectivity (400 kHz):	65 dB	
		Frequency Response:	40 Hz to 15 000 Hz	
		Stereo Separation:	40 dB	
	AM Tuner:	Sensitivity:	20 $\mu$ V	
Selectivity:		40 dB		

CD PLAYER SECTION	Type:		Compact disc player
	Signal Detection System:		Non-contact optical pickup (semiconductor laser)
	Number of Channels:		2 channels (stereo)
	Frequency Response:		5 Hz to 20 000 Hz
	Dynamic Range:		96 dB
	Signal-to-Noise Ratio:		98 dB
	Wow and Flutter:		Less than measurable limit
	MP3 Decoding Format: (MPEG1/2 Audio Layer 3)		Max. Bit Rate: 320 kbps
	WMA (Windows Media® Audio) Decoding Format:		Max. Bit Rate: 320 kbps
USB SECTION	USB Standard:		USB 1.1, USB 2.0
	Data Transfer Rate:	Full Speed:	Max. 12 Mbps
		Low Speed:	Max. 1.5 Mbps
	Compatible Device:		Mass storage class (except HDD)
	Compatible File System:		FAT 32/16/12
	Playable Audio Format:		MP3/WMA/WAV
	Max. Current:		DC 5 V  500 mA
BLUETOOTH	Version:		Bluetooth 2.0 certified
	Power Class:		Class 2 Radio (possible distance 10 m)
	Service Area:		10 m
	Profile:		HFP 1.5, OPP 1.1, A2DP 1.2, AVRCP 1.3, PBAP 1.0
	Max. Current:		DC 5 V  54.3 mA
GENERAL	Power Requirement:	Operating Voltage:	DC 14.4 V (11 V to 16 V allowance)
	Grounding System:		Negative ground
	Allowable Operating Temperature:		0°C to +40°C
	Dimensions (W × H × D): (approx.)	Installation Size:	182 mm × 111 mm × 160 mm
		Panel Size:	188 mm × 117 mm × 23 mm
Mass:		1.6 kg (excluding accessories)	

Design and specifications are subject to change without notice.



## ■ The countries where you may use the Bluetooth® function

- Die Länder, in denen Sie die Bluetooth® Funktion verwenden können
- Pays où vous pouvez utiliser la fonction Bluetooth®
- De landen waar u de Bluetooth®-functie mag gebruiken
- Países en los que se puede utilizar la función Bluetooth®
- Paesi nei quali è possibile utilizzare la funzione Bluetooth®
- Länder där du kan använda Bluetooth®-funktionen
- Lande, hvor du kan bruge Bluetooth®-funktionen
- Land hvor du kan bruke Bluetooth®-funksjonen
- Maat, joissa voi käyttää Bluetooth®-toimintoa
- Países onde pode usar a função Bluetooth®
- Οι χώρες όπου μπορείτε να χρησιμοποιήσετε τη λειτουργία Bluetooth®
- Страны, где можно воспользоваться функцией Bluetooth®
- Země, ve kterých můžete využívat funkci Bluetooth®
- Azok az országok, amelyekben használhatjuk a Bluetooth®-funkciót
- Kraje, w których można używać funkcji Bluetooth®
- Države, kjer lahko uporabljate funkcijo Bluetooth®
- Krajiny, v ktorých môžete využívať funkciu Bluetooth®
- Valstis, kur jūs varat izmantot Bluetooth® funkciju
- Šalys, kuriose galite naudotis „Bluetooth®“ funkcija
- Il-pajjiżi fejn tista' tuża l-funzjoni Bluetooth®
- Lönd þar sem hægt er að nota Bluetooth®
- Riigid, kus on võimalik kasutada Bluetooth® funktsiooni
- Bluetooth® fonksiyonunu kullanabileceğiniz ülkeler
- Na tíortha inar féidir leat feidhmiú Bluetooth® a úsáid
- Länner an denen der d'Bluetooth® Funktioun benotze kënt.
- Ở những quốc gia mà bạn có thể sử dụng chức năng Bluetooth®
- Els països on podrà fer servir la funció Bluetooth®
- Zemlje u kojima je dozvoljena upotreba Bluetooth® funkcije.
- Zemlje u kojima možete koristiti Bluetooth® funkciju
- Zemlje u kojima je dopušteno koristiti Bluetooth®.
- Земји каде можете да ја користите функцијата Bluetooth®
- Страните, в които можете да ползвате функцията Bluetooth®
- Țările în care puteți utiliza funcția Bluetooth®
- Die lande waar u die Bluetooth®-funksie kan gebruik
- Amazwe lapho ungasebenzisa khona uhlelo lwe-Bluetooth®
- Ang mga bansa kung saan maaari kang gumamit ng Bluetooth® function
- Negara-negara yang anda boleh menggunakan fungsi Bluetooth®
- Bluetooth®
- Bluetooth®
- Bluetooth®

■ الدول التي يمكنك استخدامها وظيفة Bluetooth® فيها

Country
Andorra
الإمارات العربية المتحدة
Australia
Österreich
Bosna i Hercegovina
Belgien Belgique
България
Canada
Schweiz Suisse
Chile
Κύπρος Kıbrıs
Česká republika
Deutschland
Danmark
Eesti
España
Suomi Finland
France
United Kingdom
Ελλάδα
Hong Kong 港 港
Hrvatska
Magyarország
Ireland Éire

Country
Ísland
Italia
대한민국
Lichtenstein
Lietuva
Luxemburg Luxembourg Lëtzebuerg
Latvija
Monaco
Crna Gora
Македонија
Malta
Malaysia
Nederland
Norge
New Zealand
Perú
Philippines Pilipinas
Polska
Portugal
România
Srbija
Россия
Sverige
Singapore 新加坡
Singapura
Slovenija
Slovensko

Country
Türkiye
台灣
United States of America
Venezuela
Vietnam Việt Nam
South Africa ENingizimu Afrika Suid-Afrika



**Having TROUBLE with operation?**  
**Please reset your unit**  
Refer to page of How to reset your unit

หากมีปัญหาในการทำงาน  
กรุณาคัดปุ่มตั้งค่าเริ่มต้นใหม่  
กรุณาดูหน้าวิธีตั้งค่าเครื่องใหม่



**JVC**



EN, TH

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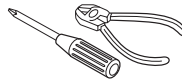
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# JVC KW-XR816

## Installation/Connection Manual

การติดตั้ง/คู่มือการติดตั้ง



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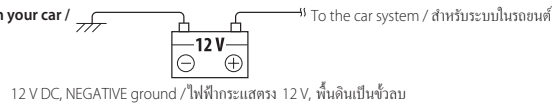
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EN, TH

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ENGLISH / ไทย

You need the installation kits which corresponds to your car. /  
ต้องใช้อุปกรณ์ติดตั้งที่เหมาะสมกับรถของท่าน

Check the battery system in your car /  
ตรวจสอบระบบแบตเตอรี่ในรถ



### WARNINGS / คำเตือน

- To prevent short circuits:
  - Disconnect the battery's negative terminal and make all electrical connections before installing the unit.
  - Cover the terminals of the UNUSED leads with insulating tape.
- Be sure to ground this unit to the car's chassis again after installation.
- Replace the fuse with one of the specified rating.
- Connect speakers with a maximum power of more than 50 W (impedance of 4 Ω to 8 Ω). Otherwise, change the <Amplifier Gain> setting. (See page 28 of the INSTRUCTIONS.)
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.

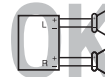
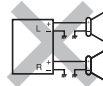
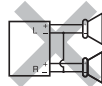


Heat sink / แผ่นระบายความร้อน

- เพื่อป้องกันไฟฟ้าลัดวงจร:
  - ถอดขั้วลบของแบตเตอรี่ออก และเชื่อมต่อไฟทั้งหมดก่อนติดตั้งเครื่อง
  - ปิดขั้วต่อของสายที่ไม่ได้ใช้ด้วยเทปป้องกัน
- ตรวจสอบให้แน่ใจว่าติดตั้งเครื่องกับโครงรถก่อนการติดตั้ง
- เปลี่ยนฟิวส์เป็นฟิวส์ตามที่กำหนด
- ต่อลำโพงเข้ากับแหล่งจ่ายไฟที่ไม่เกิน 50 W (ค่าความต้านทาน 4 Ω ถึง 8 Ω) หรือเปลี่ยนการตั้งค่า <Amplifier Gain> (ดูหน้า 28 คู่มือการใช้งาน)
- แผ่นระบายความร้อนร้อนมากหลังใช้งาน ห้ามสัมผัสเมื่อถอดเครื่องออก

### PRECAUTIONS on power supply and speaker connections

- DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.



### ข้อควรระวังเกี่ยวกับการเชื่อมต่อแหล่งจ่ายไฟและลำโพง

- อย่าต่อสายลำโพงที่เป็นสายไฟกับแบตเตอรี่รถยนต์ ไม่เช่นนั้นเครื่องอาจได้รับความเสียหายร้ายแรง
- ก่อนต่อสายลำโพงที่เป็นสายไฟกับลำโพง ควรตรวจสอบการเดินสายลำโพงในรถของท่าน

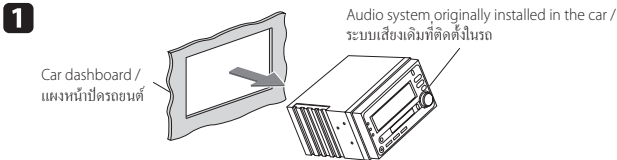
### INSTALLATION / การติดตั้ง

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

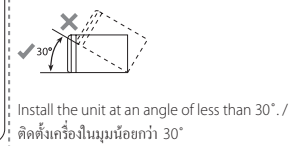
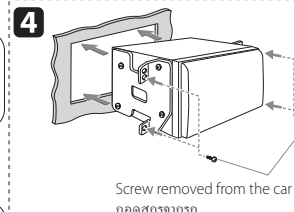
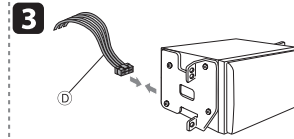
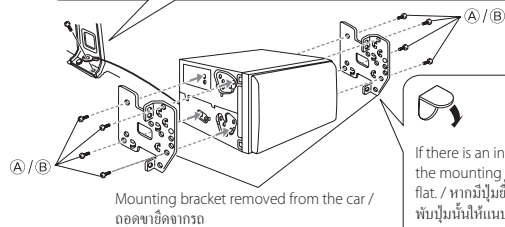
ภาพประกอบต่อไปนี้แสดงการติดตั้งแบบปกติ หากท่านมีคำถามหรือต้องการข้อมูลเพิ่มเติมเกี่ยวกับชุดติดตั้ง โปรดปรึกษาค้าแทนจำหน่ายเครื่องเสียงติดรถยนต์ JVC ของท่านหรือบริษัทที่จัดหาชุดอุปกรณ์นี้

#### In-dash mounting / การติดตั้งจอแบบ In-dash

##### Installing with the mounting brackets from the car / การติดตั้งกับขาจัดจากรถยนต์



2 Firmly attach the ground wire to the metallic body of the car using the screw originally fixed to the metallic body of the car. / ยึดสายดินกับตัวถังโลหะของรถอย่างแน่นหนาโดยใช้สกรูยึดกับตัวถังโลหะของรถแต่เดิม



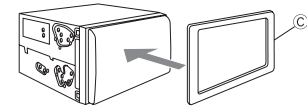
#### Part list / รายการอุปกรณ์

- A Flat countersunk screws—M5 × 8 mm / สกรูหัวแบน—M5 × 8 มม. (x8)
- B Round head screws—M5 × 8 mm / สกรูหัวกลม—M5 × 8 มม. (x8)
- C Plate for use with a Nissan car / แผ่นโลหะสำหรับใช้กับรถยนต์นิสสัน (x1)
- D Power cord / สายไฟ (x1)
- E Microphone / ไมโครโฟน (x1)
- F Microphone clips / ที่หนีบไมโครโฟน (x2)
- G \*KS-UBT1: USB Bluetooth adapter / อุปกรณ์รับสัญญาณบลูทูธแบบ (x1)

\*For connecting the supplied USB Bluetooth adapter (KS-UBT1), see page 14 of the INSTRUCTIONS. / สำหรับการเชื่อมต่ออะแดปเตอร์ USB Bluetooth ที่จัดส่งให้ (KS-UBT1) ดูหน้า 14 คู่มือการใช้งาน

#### When installing the unit in a Nissan car / เมื่อติดตั้งเครื่องในรถยนต์นิสสัน

Fix the supplied plate as illustrated. / ยึดแผ่นโลหะที่ให้มาตามรูป



### TROUBLESHOOTING / การแก้ไขปัญหาเบื้องต้น

- The fuse blows.** ⇒ Are the red and black leads connected correctly?
- Power cannot be turned on.** ⇒ Is the yellow lead connected?
- No sound from the speakers.** ⇒ Is the speaker output lead short-circuited?
- Sound is distorted.** ⇒ Is the speaker output lead grounded?; Are the “-” terminals of L and R speakers grounded in common?
- Noise interfere with sounds.** ⇒ Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?
- This unit becomes hot.** ⇒ Is the speaker output lead grounded?; Are the “-” terminals of L and R speakers grounded in common?
- This unit does not work at all.** ⇒ Have you reset your unit?

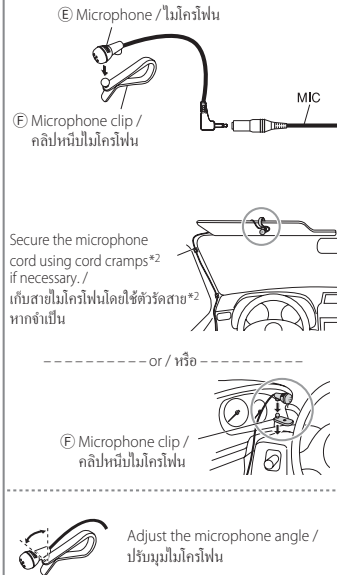
- ฟิวส์ขาด ⇒ ต่อสายสีแดงและสีดำถูกต้องหรือไม่?
- ไม่สามารถเปิดเครื่องได้ ⇒ ต่อสายสีเหลืองแล้วหรือไม่?
- ไม่ได้ยินเสียงจากลำโพง ⇒ สายสัญญาณออกของลำโพงลัดวงจรหรือไม่?
- เสียงผิดเพี้ยน ⇒ สายสัญญาณออกของลำโพงต่อกับสายดินหรือไม่?; ขั้วต่อ “-” ของลำโพง L (ซ้าย) และ R (ขวา) ต่อสายดินไว้ด้วยกันหรือไม่?
- มีเสียงรบกวน ⇒ ขั้วต่อสายดินด้านหลังที่ต่อกับโครงรถใช้สายที่สั้นและหนากว่าหรือไม่?
- เครื่องร้อน ⇒ สายสัญญาณออกของลำโพงต่อกับสายดินหรือไม่?; ขั้วต่อ “-” ของลำโพง L (ซ้าย) และ R (ขวา) ต่อสายดินไว้ด้วยกันหรือไม่?
- เครื่องใช้งานไม่ได้เลย ⇒ ท่านตั้งเครื่องใหม่หรือไม?

# ELECTRICAL CONNECTIONS / การเชื่อมต่อไฟฟ้า

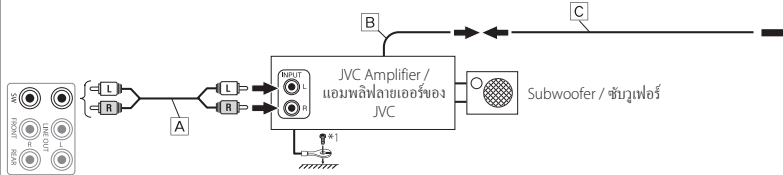
**IMPORTANT:** A custom wiring harness (separately purchased) which is suitable for your car is recommended for connection between the unit and your car.  
 • Consult your JVC car audio dealer or a company supplying kits for details.

**ข้อสำคัญ:** ขอแนะนำให้ใช้ชุดสายไฟแบบสำเร็จ (แยกซื้อต่างหาก) ซึ่งเหมาะสมสำหรับรถของคุณ เพื่อใช้เชื่อมต่อระหว่างเครื่องและรถ  
 • สอบถามตัวแทนจำหน่ายวิทยุ JVC ของคุณหรือบริษัทที่จัดส่งชุดอุปกรณ์เพื่อขอรายละเอียด

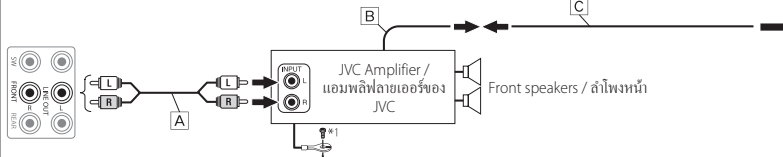
## Connecting the microphone unit / การเชื่อมต่อไมโครโฟนของเครื่อง



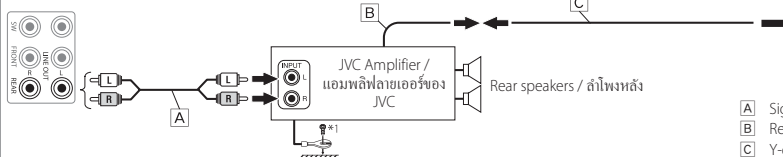
## Connecting a subwoofer (through a JVC amplifier) / การเชื่อมต่อซับวูฟเฟอร์ (ผ่านเครื่องขยายเสียง JVC)



## Connecting the front speakers (through a JVC amplifier) / การเชื่อมต่อลำโพงหน้า (ผ่านเครื่องขยายเสียง JVC)

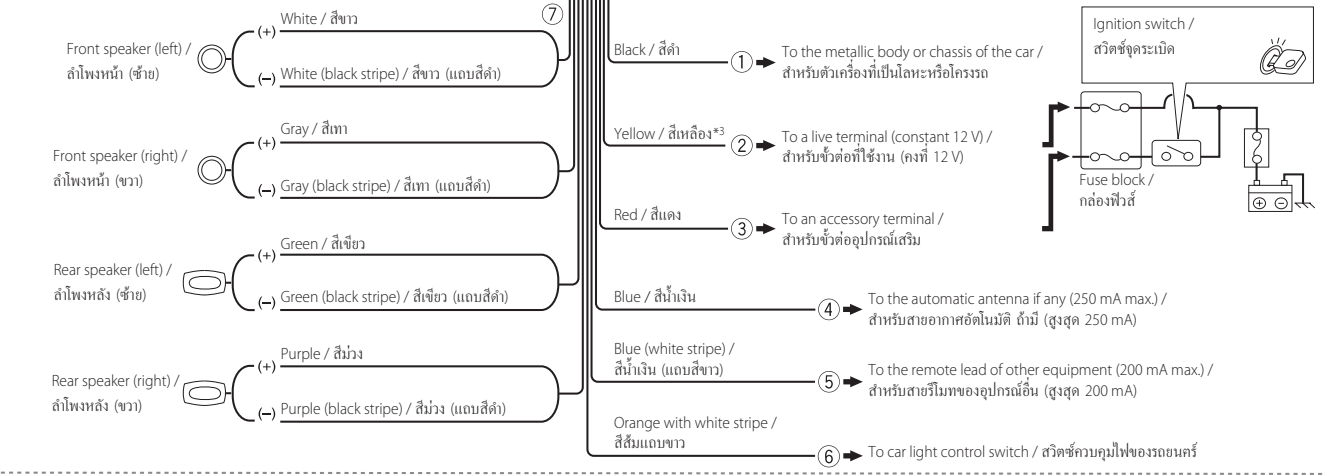
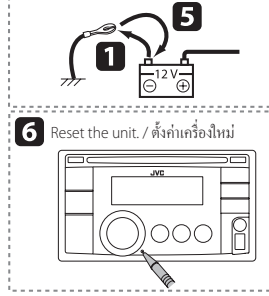
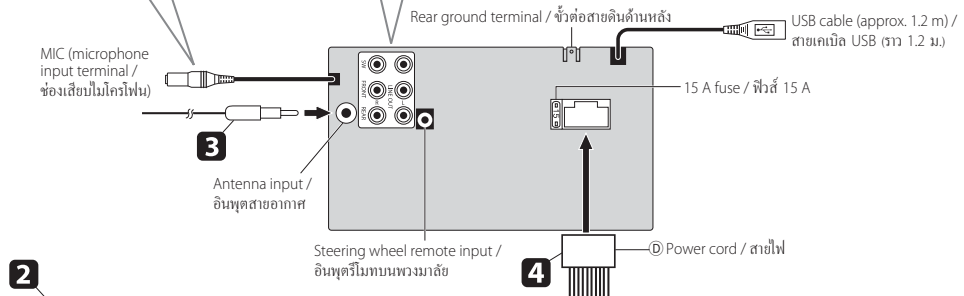


## Connecting the rear speakers (through a JVC amplifier) / การเชื่อมต่อลำโพงหลัง (ผ่านเครื่องขยายเสียง JVC)



- A Signal cord / สายสัญญาณ\*2
- B Remote lead / สายรีโมท
- C Y-connector / เชื่อมต่อ Y\*2

To the blue (white stripe) lead of the unit / สำหรับสายสีน้ำเงิน (แถบสีขาว) ของเครื่อง



\*1 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place uncoated with paint.  
 \*2 Not supplied for this unit.  
 \*3 Before checking the operation of this unit prior to installation, this lead must be connected; otherwise, the power cannot be turned on.

\*1 ติดสายดินกับตัวเครื่องที่เป็นโลหะหรือโครงรถให้แน่นหนา—ในสถานที่ที่ไม่ได้พ่นสีกัน  
 \*2 ไม่ได้จัดส่งสำหรับเครื่องนี้  
 \*3 ก่อนตรวจสอบการทำงานของเครื่องนี้ก่อนการติดตั้ง สายไฟต้องต่อไว้แล้ว ไม่งั้นมันจะไม่สามารถเปิดเครื่องได้