JVC

CD RECEIVER **KD-BT22**

CD 收音組合機 **KD-BT22**

Detachable

COMPACT
disc
DIGITAL AUDIO
TEXT

WMA MP3 **Bluetooth**®
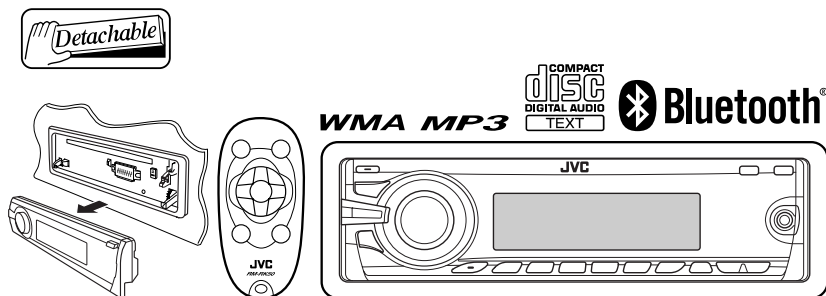
For canceling the display demonstration, see page 5.
取消屏幕演示功能，參閱第 5 頁。

For installation and connections, refer to the separate manual.
有關安裝和連接方法，分別參閱操作手冊。

INSTRUCTIONS
使用說明書

GET0528-003A
[UT]

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.

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

[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.

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. L.TEMP 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.
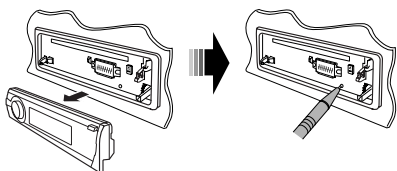
For safety...

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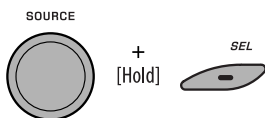
If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.
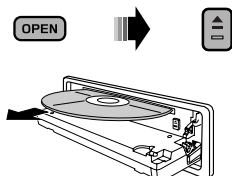
■ How to reset your unit

• *Your preset adjustments will also be erased (except the registered Bluetooth device, see pages 13 and 14).*

■ How to forcibly eject a disc

SOURCE + SEL
[Hold]

"Please Eject" appears on the display.

OPEN

• *Be careful not to drop the disc when it ejects.*
• *If this does not work, reset your unit.*

CONTENTS

ENGLISH

3

❑ How to use the M MODE and SEL buttons

If you use M MODE or SEL (select), the display and some controls (such as the number buttons, I◀◀ ∨/▶▶I ∧ buttons, ▲/▼ buttons, and the control dial) enter the corresponding control mode.

Ex.: When you press number button 1 after pressing M MODE, to operate the FM tuner.
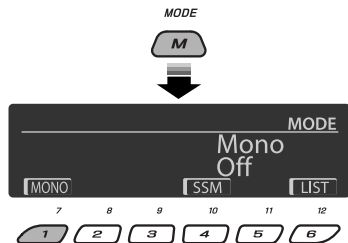
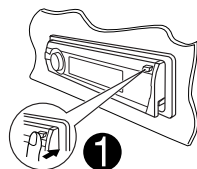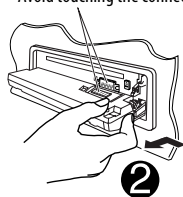To use these controls for original functions, press M MODE again.
• However, pressing SEL makes the unit enters a different mode.
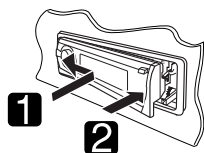• Waiting for about 15 seconds without pressing any of these buttons will automatically cancels the control.

❑ Detaching the control panel

Avoid touching the connectors.
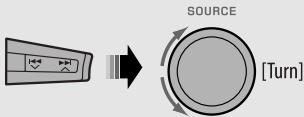
❑ Attaching the control panel

Preparation

▢ Cancel the display demonstration and set the clock

• See also pages 26 and 27.

1	⏻/I/ATT	**Turn on the power.**
2	SEL [Hold]	**Enter the PSM settings.**
3	SOURCE [Turn]	**Cancel the display demonstrations** Select "Demo," then "Off." **Set the clock** Select "Clock Hr" (hour), then adjust the hour. Select "Clock Min" (minute), then adjust the minute. Select "24H/12H," then "24Hours" or "12Hours."
4	SEL	**Finish the procedure.**

Changing the display information and pattern

When the power is turned off: Check the current clock time

DISP

Ex.: When tuner is selected as the source

TUNER
FM1
📶 87. 5 MHz
1 : 00 AM   USER
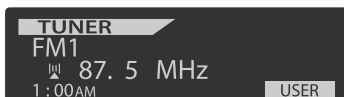
Source operation display
• If a station has been assigned a title, station title appears after about 5 seconds.
• To assign a title to a station, see pages 31 and 32.

TUNER
FM1   📶 87. 5 MHz
1 : 00 AM   USER

Audio level meter display
(see "LevelMeter" on page 26)

Basic operations

Using the control panel

1 • **TUNER:** Select preset station.
   • **CD/USB/CD-CH:** Select folder.
   • **USB-iPod:** Enter the main menu [Hold].
   • **iPod:** Enter the main menu/Pause playback/ Confirm selection.
2 • Turn on the power.
   • Turn off the power [Hold].
   • Attenuate the sound (if the power is on).
   • **Bluetooth:** Switch the conversation media during a phone call conversation.
3 Display window
4 • Enter/exit Bluetooth menu.
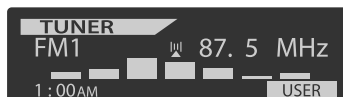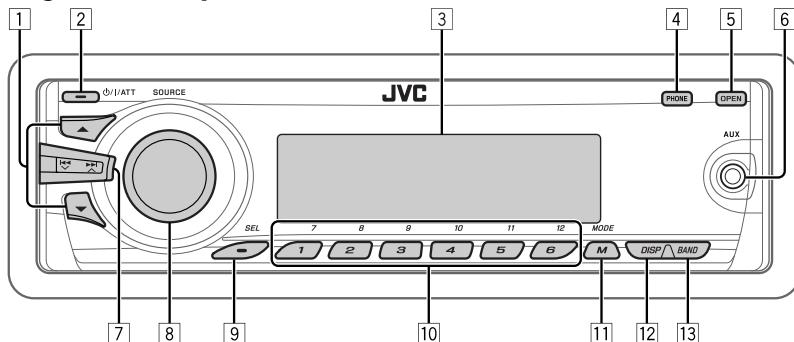   • Display the dialed list [Hold].
5 Flip down the control panel.
   • To eject the disc, flip down the control panel then press ⏏ on the unit.
6 AUX (auxiliary) input jack
7 • **TUNER:** Search for station.
   • **CD/USB/CD-CH/USB-iPod/iPod:** Select track.
   • **BT-AUDIO:** Reverse skip/forward skip.
8 • Volume control [Turn].
   • Select the source [Press].
     TUNER → **CD***1 → **USB***1 (or **USB-iPod**)*1
     → **CD-CH***1/**iPod***1 (or **EXT IN**) → **BT-AUDIO**
     → **AUX IN** → (back to the beginning)

9 • Select/adjust the sound mode.
   • Enter the PSM settings [Hold].
10 • **TUNER:** Select preset station.
   • **CD/USB/CD-CH:** Select folder/track/disc (for CD changer).
   • **USB-iPod:** Select preset top menu items.
   • **Bluetooth:** Dial preset phone number *2.
11 • Enter functions mode.
   • **Bluetooth:** Activate Voice Dialing [Hold].
12 Change the display information and pattern.
13 • **TUNER:** Select the bands.
   • **USB-iPod:** Start/pause playback.
   • **BT-AUDIO:** Start/pause playback.

*1 *You cannot select these sources if they are not ready or not connected.*
*2 *For storing preset phone number, see page 17.*

Using the remote controller (RM-RK50)

## Installing the lithium coin battery (CR2025)

CR2025
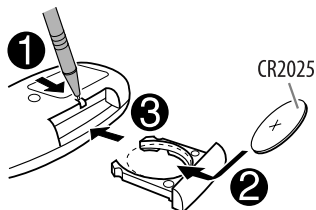
Caution:

Battery shall not be exposed to excessive heat such as sunshine, fire, or the like.

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

**Before using the remote controller:**
- Aim the remote controller directly at the remote sensor on the unit.
- DO NOT expose the remote sensor to bright light (direct sunlight or artificial lighting).
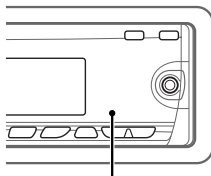
Remote sensor

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.
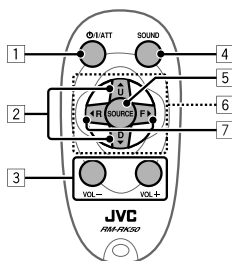
[1] • Turns the power on if pressed briefly or attenuates the sound when the power is on.
  • Turns the power off if pressed and held.
  • Switches the conversation media during a phone call conversation.
[2] • Changes the FM/AM bands with ▲ U.
  • Changes the preset stations with D ▼.
  • Changes the folder of the MP3/WMA/AAC/WAV.
  • While playing an MP3 disc on an MP3-compatible CD changer:
    – Changes the disc if pressed briefly.
    – Changes the folder if pressed and held.
  • While listening to an Apple iPod:
    Connected to KS-PD100:
    – Pauses or resumes playback with D ▼.
    – Enters the main menu with ▲ U. (Now ▲ U/D ▼/◄ R/F ► work as the menu selecting buttons.)*
    * ▲ U : *Returns to the previous menu.*
      D ▼ : *Confirms the selection.*
    Connected to the USB cable:
    – Enter the main menu if pressed and held.
    – Select the desired menu if pressed briefly.
    – Fast skip in every layer of the main menu if pressed and held.
[3] Adjusts the volume level.
[4] Selects the sound mode (iEQ: intelligent equalizer).
[5] Selects the source.
[6] For Bluetooth cellular phone:
    – Answers calls if pressed briefly.
    – Rejects calls if pressed and held.
    – Holds calls if pressed briefly during phone call conversation.
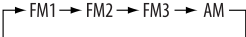
7 • Searches for stations if pressed briefly.
• Fast-forwards or reverses the track if pressed and held.
• Changes the tracks if pressed briefly.

• While listening to an iPod (in menu selecting mode):
Connected to KS-PD100:
– Selects an item if pressed briefly. (Then, press D ▼ to confirm the selection.)
– Skips 10 items at a time if pressed and held.
Connected to the USB cable:
– Start play back the selected folder directly if pressed and held.
• Reverse skip/forward skip for Bluetooth audio.

Listening to the radio

1	SOURCE	**Select "TUNER."**
2	BAND	**Select the bands.** → FM1 → FM2 → FM3 → AM ┘
3		**Search for a station to listen—Auto Search.** Manual Search: Hold either one of the buttons until "M" lights up on the display, then press it repeatedly. • When receiving an FM stereo broadcast with sufficient signal strength, ST lights up on the display.

⬜ When an FM stereo broadcast is hard to receive

1 MODE M

2 MONO 1
┌→ Mono Off → Mono On ┐
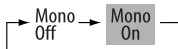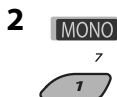
Reception improves, but stereo effect will be lost.
• MO lights up on the display.

3 Exit from the setting.
MODE M

▢ FM station automatic presetting —SSM (Strong-station Sequential Memory)

You can preset up to six stations for each band.

1 While listening to a station...

MODE
M

2 SSM
10
4

MODE
SSM
Start
SSM   LIST

3 SSM
10
4

TUNER
FM1
1 : 00AM   −SSM−
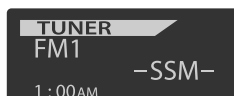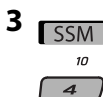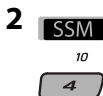
Local FM stations with the strongest signals are searched and stored automatically in the selected FM band.

▢ Manual presetting

Ex.: Storing FM station of 92.5 MHz into preset number 4 of the FM1 band.

Using the number buttons

1 BAND   → FM1 → FM2 → FM3 → AM

2
TUNER
FM1
92. 5 MHz
1 : 00AM

3 10
4 [Hold]

TUNER
FM1 P4
92. 5 MHz
1 : 00AM
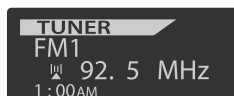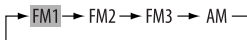
Preset number flashes for a while.

Using the Preset Station list

• When BACK is shown on the display, you can move back to the previous screen by pressing number button 3.

1 Follow steps 1 and 2 of "Using the number buttons" on the left column.
  • By holding ▲ / ▼, the Preset Station List will also appear (go to step **4**).

2 MODE
M

3 Display the Preset Station List.
LIST   ENTER
12   7
6   1

▲ ▷① 87.5   FM1
    ② 89.9
▼   ③ 97.9
CHANGE MEMO BACK

4 Select the preset number you want to store into.

▲ ▷④ 92.5
    ⑤ 107.9
▼   ⑥ 87.5
CHANGE MEMO BACK

• You can move to the lists of the other FM bands by pressing number button 5 ( ) or 6 ( ) repeatedly.

5 Store the station.
MEMO
8
2

TUNER
FM1 P4
92. 5 MHz
1 : 00AM
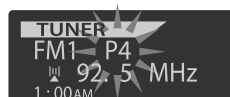
Listening to the preset station on the Preset Station List

1 Display the Preset Station List, then select the preset station you want to listen to.

2 Change to the selected station.

CHANGE

Disc operations

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

OPEN
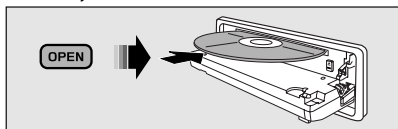
To stop play and eject the disc

OPEN

• Press SOURCE to listen to another playback source.

Prohibiting disc ejection

SOURCE

+
[Hold]

⏻/I/ATT
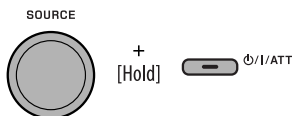
To cancel the prohibition, repeat the same procedure.

Pressing (or holding) the following buttons allows you to...

	[Press]	Select track
	[Hold]	Reverse/fast-forward track
*¹	MP3/WMA/AAC: Select folder	
7 12 1 .... 6 (Number buttons)*²	Locate particular folder*³ (for MP3/WMA/AAC) or track directly	

*¹ *By holding either one of the buttons, you can display the Folder List (see page 11).*

*² *Press to select number 1 to 6; hold to select number 7 to 12.*

*³ *It is required that folders be assigned with 2-digit numbers at the beginning of their folder names—01, 02, 03, and so on.*

After pressing M MODE, press the following buttons to...

⌃ / ⌄	Skip 10 tracks MP3/WMA/AAC: Within the same folder
RPT 8 2	**Repeat Track:** Repeat current track **Repeat Folder:** MP3/WMA/AAC: Repeat current folder
RND 9 3	**Random Folder:** MP3/WMA/AAC: Randomly play all tracks of current folder, then tracks of next folders **Random Disc:** Randomly play all tracks

• You can also cancel the playback mode by selecting "**Off**" or press number button 4 (OFF).

📂 Selecting a folder/track on the list (only for MP3/WMA/AAC file)

• When BACK is shown on the display, you can move back to the previous screen by pressing number button 3.

1 MODE
M

2 Select "LIST."

LIST
12
6

MODE
List
☑ Folder ☒
BACK

3 Select the list type.

SOURCE

[Turn] ➡ ENTER
7
1

Folder ↔ File

4 Select an item.

⌃ / ⌄

▲ ▷🎵File1 Na
🎵 🎵File2 Na
▼ 🎵File3 Na
CHANGE   BACK
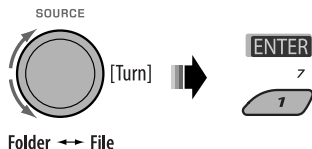
Ex.: When "File" is selected in step **3**

• You can move to the other lists by pressing number button 5 (◁—) or 6 (—▷) repeatedly.

5 Change to the selected item.

Ⓐ If File List is selected

CHANGE   The list disappears and playback
7   starts.
1

Ⓑ If Folder List is selected

ENTER
7
1

• If the current folder is selected, File List appears, then repeat steps **4** and **5** Ⓐ to start playback.
• If another folder is selected, playback starts from the 1st file of the selected folder.

Listening to the USB device

You can connect a USB mass storage class device such as a USB memory, Digital Audio Player*[1], portable HDD, etc. to the unit.
• You can also connect an Apple iPod to the USB cable from the rear of the unit. For details of the operations, see pages 20 and 21.

This unit can play MP3/WMA/WMA-DRM10*[1]/AAC*[2]/WAV tracks stored in a USB device.

*[1] *You can connect both MTP (Media Transfer Protocol) devices and USB mass storage class devices. See also page 34.*

*[2] *This unit can play back AAC files encoded using iTunes. This unit cannot play back FairPlay-encrypted files.*

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

USB cable from the rear of the unit.

USB memory
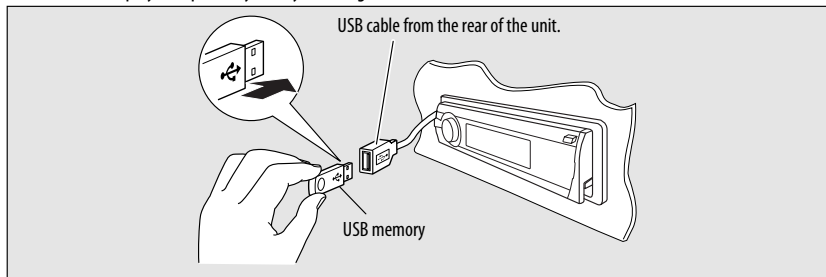
If a USB device has been attached...
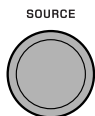
SOURCE

Playback starts from where it has been stopped previously.
• If a different USB device is currently attached, playback starts from the beginning.

To stop play and detach the USB device

Straightly pull it out from the unit.
• 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. (See pages 10 and 11.)
• You can listen to WAV files by following the MP3/WMA/AAC files operations listed on pages 10 and 11.

Cautions:

• Avoid using the USB device if it might hinder your safety driving.
• Do not pull out and attach the USB device repeatedly while "Reading" is shown on the display.
• 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 cable from the rear of the unit.
• Make sure all important data has been backed up to avoid losing the data.
• 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.
• For more details about USB operations, see pages 34 and 35.

Bluetooth®

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

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

Bluetooth profile

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

Features

You can operate Bluetooth devices through the unit as follows:

• Receiving a call
• Making a call—from phone book, from call history (dialed number/received call), by dialing number, by preset numbers, by voice command
• Informing you of the arrival of a text message
• Play back a Bluetooth audio player

Refer also to the instructions supplied with the Bluetooth device.

Connecting a Bluetooth device for the first time

Pairing and PIN code

When you connect a Bluetooth device to the unit for the first time, make pairing between the unit and the device. Pairing allows Bluetooth devices to communicate with each other.
To make pairing, you may need to enter the PIN (Personal Identification Number) code of your Bluetooth device you want to connect.

• 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.
• To use the Bluetooth function, you need to turn on Bluetooth function of the device.

Preparation: Operate the device to turn on its Bluetooth function.
• When BACK is shown on the display, you can move back to the previous screen by pressing number button 3.

1 **While listening to a source...**

PHONE

2 **Select "Device."**

3 **Select "New Pairing."**

SOURCE

[Turn] ➡ ENTER
7
1
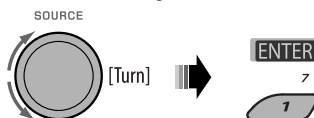
4 **Enter a PIN (Personal Identification Number) code to the unit.**

- You can enter any number you like (1-digit to 16-digit number). [Initial: 0000]
- To enter a PIN code less than 4-digit, firstly delete the initial PIN code (0000) by pressing number button 5 (CLEAR).

* *Some devices have their own PIN code. Enter the specified PIN code to the unit.*

1 Move to the next (or previous) number position.

2 Select a number.

SOURCE

[Turn]
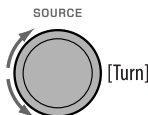
3 Repeat steps 1 and 2 until you finish entering a PIN code.

4 Confirm the entry.

ENTER

5 **Operate the target Bluetooth device, (while "Open…" is flashing on the display).**
On the device to be connected, enter the same PIN code you have just entered for this unit.
"Connecting…" flashes, then "Pairing Ok" or "Connected [Device Name]" appears on the display when the connection is established. Now you can use the device through the unit.

 appears when the connection is established.

The device remains registered even after you disconnect the device. Use "**Cnnct Phone**" or "**Cnnct Audio**" (or activate "**Auto Cnnct**") to connect the same device from next time on. (See the following and pages 30 and 31.)

Deleting a registered device

Perform steps **1** and **2** on page 13, then…
1 **Select "Del Pairing."**

SOURCE

[Turn] ENTER
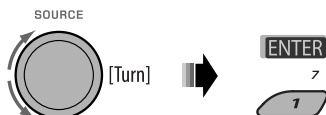
2 **Select a device you want to delete.**

ENTER

3 **Delete the selection.**

Delete Ok?
Yes: P1   No: P3

- Press number button 3 to select "No" or return to step 1.

Connecting a registered device

Perform steps **1** and **2** on page 13, then…
1 **Select "Cnnct Phone" or "Cnnct Audio."**

SOURCE

[Turn] ENTER

2 **Select a device you want.**

ENTER

"Connecting…" flashes, then "Connected (and device name)" appears on the display when the device is connected.

14

You can set the unit to connect the Bluetooth device automatically when the unit is turned on. (See "**Auto Cnnct**" on page 30.)

Disconnecting a device

Perform steps **1** and **2** on page 13, then...
Select "Discn Phone" or "Discn Audio."

SOURCE

[Turn] ▓▶ ENTER
7
1
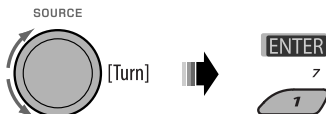
"Disconnecting..." flashes, then "Disconnected (and device name)" appears on the display when the device is disconnected.

Using the Bluetooth cellular phone ▬▬▬

▤ Making a call

You can make hands-free calls using the unit.

The built-in microphone is behind this corner of the unit.
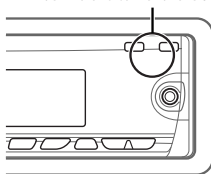
The sounds comes out from the connected speakers.

• When **BACK** appears on the display, you can move back to the previous display by pressing number button 3.

1 PHONE

2 Select "Call."

◄◄ ►►I

3 Select the method to make a call.

SOURCE

[Turn] ▓▶ ENTER
7
1
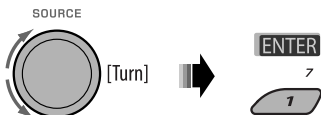
• **Dialed***: Shows the list of the phone numbers you have dialed. Go to the following step.
• **Received***: Shows the list of the received calls. Go to the following step.
• **Phonebook**: Shows the name/phone number of the phone book of the unit. Go to the following step. To copy the phone book memory, see page 17.
• **Preset**: Shows the list of preset numbers. Go to the following step. To preset numbers, see page 17.
• **Dial Number**: Shows the phone number entry screen. See "How to enter phone number" on page 16.
• **Voice Dial** (Only accessible when the connected cellular phone has the voice recognition system): Speak the name (registered words) you want to call.

* *Displays only when the dialed or received number is made through the unit.*

4 Select the name/phone number/preset number you want to call.

▲
▼ ▓▶ ENTER
7
1
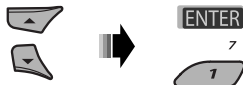
• When the sound is stopped or interrupted during the use of a Bluetooth device, turn off, then turn on the unit.
  – If the sound is not yet restored, connect the device again. (See "Connecting a registered device" on page 14.)

When a call comes in....

The source is automatically changed to "Bluetooth."

Receiving...
09845671234

• Phone number appears (if acquired).

When "Auto Answer" is activated....

The unit answers the incoming calls automatically, see pages 30 and 31.
• When "Auto Answer" is deactivated, press any button (except ☉/I/ATT/control dial) to answer the incoming call.
• You can adjust the microphone volume level (see pages 30 and 31).

To end the call or reject an incoming call

Hold any button (except ☉/I/ATT/control dial).
• When "Auto Answer" is set to "Reject," the unit rejects any incoming calls.

Answering a waiting call

If your cellular phone is equipped with the call waiting function, you can put the current call on hold and answer the waiting call.
Press any button (except ☉/I/ATT/control dial).
• To restore the on-hold call, press any button (except ☉/I/ATT/control dial) again.
• When you end one call, you can connect to the other.

When a text message comes in....

If the cellular phone is compatible with Text Message and "MSG Notice" is set to "On" (see pages 30 and 31), the unit rings and "Received Message" appears on the display to inform you of the message arrival.
• You cannot edit or send a message through the unit.

How to enter phone number

SOURCE

[Turn]   Select a number.

Move the entry position.

ENTER

Confirm the entry.
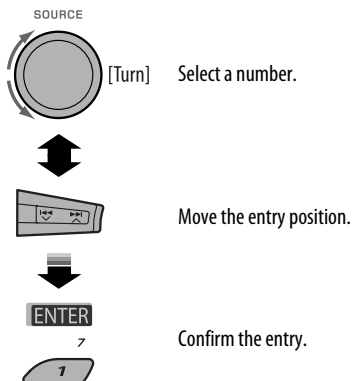
How to delete phone number

1   PHONE

2   **Select "Call."**

3   **Display the list of phone numbers using one of the dialing method (see step 3 of "Making a call" on page 15).**

4   **Select the name/phone number you want to delete.**

5   **Delete the selection.**

DEL

• Press number button 6 (DEL ALL) to delete all the listed numbers in step 3 .

How to copy phone book

You can copy the phone book memory of a cellular phone into the unit.

• When BACK is shown on the display, you can move back to the previous screen by pressing number button 3.

1 [PHONE]

2 Select "Settings."

3 Select "PhoneBook."

SOURCE

[Turn] ➡ ENTER
7
1
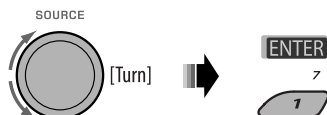
4 Enter the PIN code both for this unit and Bluetooth phone.
• See step **4** of page 14.
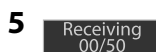
5 Receiving
00/50

Operate the target cellular phone. (While "Receiving 00/50" appears on the display.) Enter the same PIN code (as entered in step **4**) on the cellular phone, then transfer the phone book memory to the unit. (Refer to the Instructions manual supplied with your cellular phone.)

▢ Presetting the phone number

You can preset up to six phone numbers.

• When BACK is shown on the display, you can move back to the previous screen by pressing number button 3.

1 Display the phone number you want to preset by using one of the "Call" items.

2 Select a phone number.

You can also enter a new phone number (see also "How to enter phone number" on page 16) to store.

3 Select a preset number to store.

7   8   9   10   11   12
1   2   3   4   5   6
[Hold]
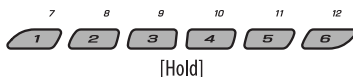
To call a preset number

While in Bluetooth audio....

7   8   9   10   11   12
1   2   3   4   5   6

• You can also call a preset number using "Preset" of the "Call" items (see page 15).

Switching conversation media (the unit/cellular phone)

During a phone call conversation....

⏻/I/ATT   Then, continue your conversation using the other media.

Using the Bluetooth audio player

• Operations and display indications differ depending on their availability on the connected audio player.

SOURCE	**Select "BT-AUDIO."** If playback does not start automatically, operate the Bluetooth audio player to start playback.

	[Press] Reverse skip/forward skip [Hold] Reverse search/forward search
	Select group/folder
BAND	Start/pause playback

• Refer also to pages 14 and 15 for connecting/ disconnecting/deleting a registered device.

Bluetooth Information:
If you wish to receive more information about Bluetooth, visit the following JVC web site: <http://www.jvc-victor.co.jp/english/car/>.

After pressing M MODE, press the following buttons to...

RPT 8 2	**Repeat Track:** Repeat current track **Repeat All:** Repeat all tracks **Repeat Group:** Repeat all tracks of current group
RND 9 3	**Random All:** Randomly play all tracks **Random Group:** Randomly play all tracks of the current group

• You can also cancel the playback mode by selecting "**Off**" or press number button 4 (OFF).

Listening to the CD changer

It is recommended to use a JVC MP3-compatible CD changer with your unit. You can connect a CD changer to the CD changer jack on the rear of the unit.
• You can only play conventional CDs (including CD Text) and MP3 discs.

Preparation: Make sure "Changer" is selected for the external input setting, see page 28.

1	SOURCE	**Select "CD-CH."**
2	7 12 1 6	**Select a disc to start playing.** [Press] For selecting disc number 1 – 6. [Hold] For selecting disc number 7 – 12.

◄◄ ►►	[Press] Select track [Hold] Reverse/fast-forward track
▲ * ▼	MP3: Select folders

* By holding either one of the buttons, you can display the Disc List (see page 11).

To select a disc/folder/track on the list

See "Selecting a folder/track on the list (only for MP3/WMA/AAC file)" on page 11.
Select "Disc" in step **3** to display the Disc List of the CD changer.

After pressing M MODE, press the following buttons to...

|	
▲ ▼	Skip 10 tracks MP3: Within the same folder

RPT
8
2
	Repeat Track:
	    Repeat current track
	Repeat Folder:
	    MP3: Repeat all tracks of current folder
	Repeat Disc:
	    Repeat all tracks of the current disc

RND
9
3
	Random Folder:
	    MP3: Randomly play all tracks of the current folder, then tracks of the next folder
	Random Disc:
	    Randomly play all tracks of current disc
	Random All:
	    Randomly play all tracks of the discs in the magazine

• You can also cancel the playback mode by selecting "**Off**" or press number button 4 (OFF).

Listening to the iPod

You can play songs in an Apple iPod by:
– Connecting it with the USB cable supplied with your iPod to the USB cable from the rear of the unit.
– Connecting the Interface adapter for iPod, KS-PD100 (separately purchased) to the CD changer jack on the rear of the unit.
Preparation: Make sure "Changer" is selected for the external input setting, see page 28.

• You can control playback from the unit.
• Disconnecting the iPod will stop playback. Press SOURCE to listen to another playback source.
• For details, refer also to the manual supplied for your iPod.

Caution:

• Avoid using the iPod if it might hinder your safety while driving.
• Make sure all important data has been backed up to avoid losing the data.

1	—	**Connect an iPod to the USB cable or through KS-PD100.** Playback starts automatically from where it had been paused previously. • If an iPod has been connected, press SOURCE to select "USB-iPod" or "iPod" as the playback source.
2		**Select a track.**
3	—	**Adjust the volume and sound as you want. (See pages 23 – 25.)**

▢ Playback control from the unit

Button	For iPod connected through KS-PD100		For iPod connected to the USB cable	
	[Press]	Go to the next or previous track	[Press]	Go to the next or previous track
	[Hold]	Fast-forward or reverse the track during playback	[Hold]	Fast-forward or reverse the track during playback
	[Press]	Enter main menu when you press ▲. Pause/resume playback when ▼ is pressed.	[Hold]	Enter main menu
			[Press]	Go to the top menu of "Playlists," "Artists," "Albums," "Songs," "Podcasts," "Genres," "Composers," or "Audiobooks" in the main menu. • Pressing the number buttons (1 – 6) or holding 1 (7) and 2 (8) can also select the preset top menus.
BAND	—		[Press]	Pause/resume playback.

☐ Selecting a track from the menu

No.	Operation	For iPod connected through KS-PD100	For iPod connected to the USB cable
1	**Enter the main menu.**		[Hold]
2	**Select the desired menu.**	Playlists ←→ Artists ←→ Albums ←→ Songs ←→ Genres ←→ Composers	Playlists ←→ Artists ←→ Albums ←→ Songs ←→ Podcasts ←→ Genres ←→ Composers ←→ Audiobooks
3	**Confirm the selection.**	• By holding ⏮▾/⏭▴, you can fast skip during song search in the main menu.	• By holding ⏭▴, you can start play back the selected item directly. • By holding ⏮▾, you can go back to the previous menu. • By holding ▲/▼, you can fast skip in every layer of the main menu.
		• If a track is selected, playback starts automatically. • If the selected item has another layer, you will enter the layer. Repeat steps **2** and **3** until the desired track is played.	

After pressing M MODE, press the following buttons to...

RPT 8 2	**Repeat One:** Same as "Repeat One." **Repeat All:** Same as "Repeat All." **Repeat Off:** Cancels.
RND 9 3	**Random Album***: Same as "Shuffle Albums." **Random Song:** Same as "Shuffle Songs." **Random Off:** Cancels.

* *Functions only if you select "All Albums" or "All" in "Albums" of the main "MENU."*

The menu selecting mode will be canceled:
• If no operations are performed for about:
  – 5 seconds for iPod connected through KS-PD100.
  – 15 seconds for iPod connected to the USB cable.
• When you confirm the selection of a track.
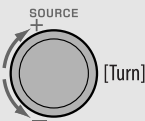
Listening to the other external components

You can connect an external component to:
- CD changer jack on the rear of this unit using the following adapters:
  - **Line Input Adapter,** KS-U57
  - **AUX Input Adapter,** KS-U58

  Preparation: Make sure "Ext In" is selected for the external input setting, see page 28.
- AUX (auxiliary) input jack on the control panel.
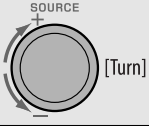
1	SOURCE	**Select "EXT IN" or "AUX IN."**
2	—	**Turn on the connected component and start playing the source.**
3	SOURCE [Turn]	**Adjust the volume.**
4	—	**Adjust the sound as you want (see pages 23 – 25).**

Connecting an external component to the AUX input jack

3.5 mm stereo mini plug
(not supplied)

Portable audio player, etc.
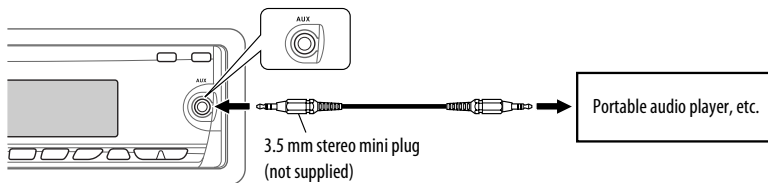
Selecting a preset sound mode

You can select a preset sound mode suitable to the music genre (iEQ: intelligent equalizer).

1	*SEL*	**Enter sound mode setting.**
2		**Select "EQ."** EQ ↔ Fad/Bal ↔ Subwoofer ↔ Loudness ↔ VolAdjust ↔ Hi Pass
3	SOURCE + − [Turn]	**Select "On."** • If "Bypass" is selected, you can listen to the original sound mode recorded. PURE lights up on the display.
4	USER ROCK CLASSIC POPS HIP HOP JAZZ 7 8 9 10 11 12 1 2 3 4 5 6	**Select a preset sound mode.**

Preset value setting for each sound mode

Sound mode	Preset value				
	Band 1 (100 Hz)	Band 2 (320 Hz)	Band 3 (1 kHz)	Band 4 (3.2 kHz)	Band 5 (10 kHz)
USER	0	0	0	0	0
ROCK	+3	+2	0	+1	+1
CLASSIC	+2	+2	0	+1	0
POPS	0	+1	0	+1	+2
HIP HOP	+4	+1	−2	0	+1
JAZZ	+3	+2	+1	+2	+2

Adjusting the sound

You can adjust the sound characteristics to your preference.
• When BACK is shown on the display, you can move back to the previous screen by pressing number button 3 or 6.

1
SEL

2

```
  ┌─→ EQ ←→ Fad/Bal ←→ Subwoofer ←┐
  └─→ Loudness ←→ VolAdjust ←→ Hi Pass ←┘
```
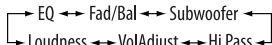
• For "EQ" setting, see page 23.

3 Adjust the selected setting item.

Ⓐ **Fad/Bal (Fader/Balance)**
  ① Press number button 1 (SELECT) to move to the "Fad/Bal" adjustment display.
  ② Adjust the speaker output balance by pressing:
  ▲ / ▼: between the front and rear speakers. [F6 to R6]
  |◄◄ ∨/►►| ∧: between the left and right speakers. [L6 to R6]

Ⓑ **Subwoofer**
  ① Press number button 1 (SELECT) to move to the "Subwoofer" adjustment display.
  ② Use |◄◄ ∨/►►| ∧ to select the cutoff frequency to the subwoofer.
  • Off*: All signals are sent to the subwoofer.
  • 55Hz: Frequencies higher than 55 Hz are cut off.
  • 85Hz: Frequencies higher than 85 Hz are cut off.
  • 120Hz: Frequencies higher than 120 Hz are cut off.

  ③ Turn the control dial to adjust the subwoofer output level. [0 to 8]
  ④ Press number button 1 (MORE) to move to another setting level.
  |◄◄ ∨/►►| ∧: select the quality of LPF. [−12dB/oct or −24dB/oct]
  Control dial: Turn the control dial to select the subwoofer phase. [0deg (normal) or 180deg (reverse)]
  * *If "Off" is selected in step ②, you can only adjust the subwoofer phase.*

Ⓒ **Hi Pass (Hi Pass Filter)**
  Turn the control dial to select the cutoff frequency to the front/rear speakers. Set this to match the LPF setting.
  • Off: All signals are sent to the front/rear speakers.
  • 62Hz: Frequencies lower than 62 Hz are cut off.
  • 95Hz: Frequencies lower than 95 Hz are cut off.
  • 135Hz: Frequencies lower than 135 Hz are cut off.

Ⓓ **VolAdjust,** [−5 to +5]
  Turn the control dial to adjust the input level of each source (except FM).
  Adjust to match the input level of the FM sound level.
  • Before making an adjustment, select the source you want to adjust.

Ⓔ **Loudness,** [Off or On]
  Turn the control dial to select "Off" or "On." When "On" is selected, low and high frequencies sound are boosted to produce a well-balanced sound at low volume level.

4 Exit from the setting.
SEL

◼ Storing your own sound modes

You can adjust the sound modes and store your own adjustments in memory.

• When BACK is shown on the display, you can move back to the previous screen by pressing number button 6.

1
SEL

2

→ EQ ←→ Fad/Bal ←→ Subwoofer ←
↳ Loudness ←→ VolAdjust ←→ Hi Pass ←

3 Select a sound mode.

USER	ROCK	CLASSIC	POPS	HIP HOP	JAZZ
7	8	9	10	11	12
1	2	3	4	5	6
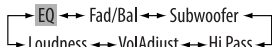
4 Select a frequency range to adjust.

→ 100 Hz ←→ 320 Hz ←→ 1 kHz ←
↳ 10 kHz ←——— 3.2 kHz ←

5 **Adjust the sound elements of the selected frequency range.**

1 Press |◀◀ ∨/▶▶| ∧ to select the frequency band, then press ▲ / ▼ to enhanced level for the selected frequency band. [−6 to +6]

2 Press number button 5 (FREQ), then turn the control dial to select the frequency.

3 Press number button 5 (Q), then turn the control dial to select the quality slope (Q).

6 **Repeat steps 3 and 4 to adjust the other frequency bands.**

7 **Store the adjustments.**

STORE
10
4

⬇

STORE
10
4

```
                                    EQ
              User
            Store?
        STORE        BACK
```

Adjustable sound elements

| Sound elements | Range/selectable items | | | | |
	Band 1 (100 Hz)	Band 2 (320 Hz)	Band 3 (1 kHz)	Band 4 (3.2 kHz)	Band 5 (10 kHz)
Frequency	68 Hz 100 Hz 150 Hz	210 Hz 320 kHz 460 kHz	680 Hz 1 kHz 1.5 kHz	2.1 kHz 3.2 kHz 4.6 kHz	6.8 kHz 10 kHz 15 kHz
Level	−6 to +6	−6 to +6	−6 to +6	−6 to +6	−6 to +6
Q (Q-slope)	Q0.7 Q1.0 Q1.4 Q2.0	Q0.7 Q1.0 Q1.4 Q2.0	Q0.7 Q1.0 Q1.4 Q2.0	Q0.7 Q1.0 Q1.4 Q2.0	Q0.7 Q1.0 Q1.4 Q2.0

ENGLISH

General settings—PSM

You can change PSM (Preferred Setting Mode) items listed in the table below and on pages 27 and 28.

1 Enter the PSM settings.

SEL
[Hold]

2 Select a PSM category.

MOV CLOCK DISP >>
 8   9   10   11
 2   3   4   5

To display the rest

TUNER AUDIO COLOR >>
 8   9   10   11
 2   3   4   5
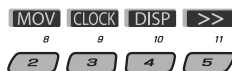
3 Select a PSM item.

By pressing either one of the buttons repeatedly, you can also move to the item of the other categories.

4 Adjust the selected PSM item.

SOURCE
[Turn]
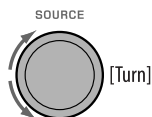
5 Repeat steps 2 – 4 to adjust other PSM items if necessary.

6 Finish the procedure.

SEL

Category	Indication	Item (__ : Initial)	Setting, [reference page]
MOV (movie)	**Demo** Display demonstration	· **On** · **Off**	: Display demonstration will be activated automatically if no operation is done for about 20 seconds, [5]. : Cancels.
	LevelMeter Audio level meter	· **Meter 1** · **Meter 2**	: Select the different level meter patterns. · Press DISP to show the selected level meter.
CLOCK	**Clock Disp**[1] Clock display	· **On** · **Off**	: Clock time is shown on the display when the power is turned off. : Cancels; pressing DISP will show the clock time for about 5 seconds when the power is turned off, [5].

[1] *If the power supply is not interrupted by turning off the ignition key of your car, it is recommended to select "Off" to save the car's battery.*

26

Category	Indication	Item (__ : Initial)	Setting, [reference page]
CLOCK	**Clock Hr** Hour adjustment	**1 – 12AM/ 1 – 12PM (0 – 23)**	: Initial: 1 (1:00AM), [5].
	Clock Min Minute adjustment	**00 – 59**	: Initial: 00 (1:00AM), [5].
	24H/12H Time display mode	• **12Hours** • **24Hours**	: See also page 5 for setting.
DISP (display)	**Scroll**[2] Scroll	• **Once** • **Auto** • **Off**	: Scrolls the track information once. : Repeats scrolling (at 5-second intervals). : Cancels. (Holding DISP can scroll the display regardless of the setting.)
	Dimmer Dimmer	• **Auto** • **Off** • **On** • **Time Set**	: Dims the display when you turn on the headlights. : Cancels. : Dims the display and button illumination. : Set the timer for dimmer, [29]. Any hour – Any hour
	From – To[3]	—	: Initial: 6PM – 7AM.
	Contrast Contrast	**1 – 8** Initial: 5	: Adjust the display contrast to make the display indications clear and legible.
	LCD Type Display type	• **Auto**	: Positive pattern will be selected during the day time[4]; while negative pattern will be used during the night time[4].
		• **Positive** • **Negative**	: Positive pattern of the display. : Negative pattern of the display.
	Tag Tag display	• **On** • **Off**	: Shows the tag while playing MP3/WMA/AAC/WAV tracks. : Cancels.

[2] Some characters or symbols will not be shown correctly (or will be blanked) on the display.
[3] Adjustable only when "Dimmer" is set to "Time Set."
[4] Depends on the "Dimmer" setting.

ENGLISH

Category	Indication	Item (__ : Initial)	Setting, [reference page]
TUNER	**IF Band** Intermediate frequency band	• **Auto** • **Wide**	: Increases the tuner selectivity to reduce interference noises between adjacent stations. (Stereo effect may be lost.) : Subject to interference noises from adjacent stations, but sound quality will not be degraded and the stereo effect will remain.
AUDIO	**Ext Input***5 External input	• **Changer** • **Ext In**	: To use a JVC CD changer, [19], or an Apple iPod, [20]. : To use any other external component, [22].
AUDIO	**Beep** Key-touch tone	• **On** • **Off**	: Activates the key-touch tone. : Deactivates the key-touch tone.
AUDIO	**AudioBooks***6 Speed control of "Audiobook"	• **Normal** • **Faster** • **Slower**	: You can select the playback speed of the "Audiobook" sound file in your iPod. • Initial selected item depends on your iPod setting.
AUDIO	**Amp Gain** Amplifier gain control	• **High PWR** • **Low PWR**	: Volume 00 – Volume 50 : Volume 00 – Volume 30 (Select if the maximum power of each speaker is less than 50 W to prevent damaging the speaker.)
COLOR	**Color Sel** Color selection	Initial: All Source; Color: Pale	: Select your favorite display color for each source (or for all sources), [29].
COLOR	**Color Set** Color setting	— **Day Color** **NightColor**	: Create your own colors, and select them for the display color, [30]. : User color during the day time*7. : User color during the night time*7.
COLOR	Red Green Blue	00 — 11 00 — 11 00 — 11	: Initial: Day Color: 07, NightColor: 05 : Initial: Day Color: 07, NightColor: 05 : Initial: Day Color: 07, NightColor: 05

*5 *Displayed only when one of the following sources is selected—TUNER, CD, USB, USB-iPod, Bluetooth, or AUX IN.*
*6 *Displayed only when an iPod is connected to the USB cable and playback is controlled from the unit.*
*7 *Depends on the "Dimmer" setting.*

▦ Setting the time for dimmer

• When BACK is shown on the display, you can move back to the previous screen by pressing number button 3.

1 Follow steps 1 to 3 on page 26.
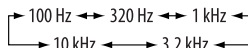   • In step **2**, select "DISP."
   • In step **3**, select "Dimmer."

2 Select "Time Set."

SOURCE

[Turn] ➡ SET
7
1

PSM
◀From▶
6PM– 7PM ▼
BACK
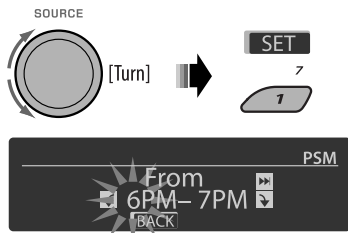
3 Adjust the dimmer start time.
   ① Turn the control dial to set the dimmer start time.
   ② Press ▶▶|▲ to select "To." Then, turn the control dial to set the dimmer end time.

4 Exit from the setting.

SEL

▦ Changing the display color

You can select your favorite display color for each source (or all sources).

• When BACK is shown on the display, you can move back to the previous screen by pressing number button 3 or 6.

Setting the display color

1 Follow steps 1 to 3 on page 26.
   • In step **2**, select "COLOR."
   • In step **3**, select "Color Sel."

2

SET
7
1

PSM
◀ All Source ▶
▲ Pale ▼
BACK

3 Select a source.

All Source[1] ◄► **CD** ◄► **Changer**[3] (or **Ext In**[2]) ◄► **USB**[3] ◄► **FM** ◄► **AM** ◄► **iPod**[3] ◄► **Aux In** ◄► **BT Audio** ◄► (back to the beginning)

[1] *When you select "All Source," you can use the same color for all the sources.*
[2] *Depends on the "Ext Input" setting, see page 28.*
[3] *Displayed only when the target component is connected.*

4 Select a color.

SOURCE

[Turn]
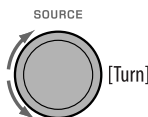
Pale ◄► **Aqua** ◄► **Sky** ◄► **Sea** ◄► **Leaves** ◄► **Grass** ◄► **Apple** ◄► **Rose** ◄► **Amber** ◄► **Honey** ◄► **Violet** ◄► **Grape** ◄► **Every**[4] ◄► **User**[5] ◄► (back to the beginning)

[4] *The color changes every 2 seconds.*
[5] *The user-edited colors—"Day Color" and "NightColor" will be applied (see page 30 for details).*

5 Repeat steps 3 and 4 to select the color for each source (except when selecting "All Source" in step 3).

6 Exit from the setting.

SEL

ENGLISH

Creating your own color—User Color

You can create your own colors—"Day Color" or "NightColor."

1 Follow steps 1 to 3 on page 26.
- In step **2**, select "COLOR."
- In step **3**, select "Color Set."

2 Select "Day Color" or "NightColor."

SOURCE

[Turn] ▶ **SET** 7 1

Day Color ◄► NightColor
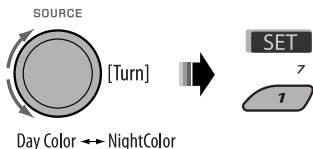
3 Select a primary color.

┌► Red ◄► Green ◄► Blue ◄┐

4 Adjust the level (00 to 11) of the selected primary color.

5 Repeat steps 3 and 4 to adjust other primary colors.

6 Exit from the setting.

SEL

Bluetooth settings

You can change the settings listed below and on page 31 according to your preference.
- When **BACK** is shown on the display, you can move back to the previous screen by pressing number button 3.

1 PHONE

2 Select "Settings."

3 Select a setting item.

SOURCE

[Turn] ▶ **ENTER** 7 1
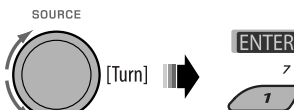
Auto Cnnct ←→ Auto Answer ←→ MSG Notice[*1] **←→ MIC ←→ PhoneBook ←→ Initialize ←→ Name ←→ Address ←→ Version ←→ Phone Device**[*2] **←→ Audio Device**[*2] **←→** (back to the beginning)

4 Change the setting accordingly.

SOURCE

[Turn] ▶ **ENTER** 7 1
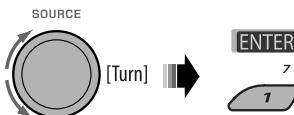
- If "PhoneBook" is selected in step **3**, see page 17 for details.

Setting menu (__ : Initial)

▨ **Auto Cnnct** (connect)
When the unit is turned on, the connection is established automatically with...
Off: No Bluetooth device.
Last: The last connected Bluetooth device.

Auto Answer

On: The unit answers the incoming calls automatically.

Off: The unit does not answer the calls automatically. Answer the calls manually.

Reject: The unit rejects all incoming calls.

MSG Notice (message notice)

On[*1]: The unit informs you of the arrival of a message by ringing and displaying "Received Message."

Off: The unit does not inform you of the arrival of a message.

MIC (microphone setting)

Adjust the built-in microphone volume, [Level 01/02/03].

PhoneBook

Load the phone book of the Bluetooth phone to the unit. (You can load up to 50 phone numbers.)

• Before using this function, make sure that the Bluetooth phone is connected.

Initialize

Yes: Initialize all settings you have made in the Bluetooth menu.

No: Return to the previous screen.

Name

Name of the unit (as shown on Bluetooth devices).

Address

Address of the unit.

Version

Hardware and software versions of the Bluetooth module.

Phone Device[*2]

Name of the connected Bluetooth phone.

Audio Device[*2]

Name of the connected Bluetooth audio player.

*[*1] *If the connected Bluetooth phone does not support text message notification (via Bluetooth), the unit will not receive any notification upon the arrival of a text message.*

*[*2] *Appears only when a Bluetooth phone/audio player is connected.*

Title assignment

You can assign titles to 30 station frequencies (FM and AM) using 10 characters (maximum) for each title.

• When BACK is shown on the display, you can move back to the previous screen by pressing number button 3.

1 **Select "TUNER."**

SOURCE

2 **Show the title entry screen.**

DISP + [Hold] SEL

TITLE

ENTER   BACK A → a CLEAR
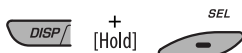
3 **Assign a title.**

1. Press number button 4 (A → a) repeatedly to select a character set.

→ Lower case (a – z)
↓
Numbers and symbols (0 – 9)
↓
Upper case (A – Z)
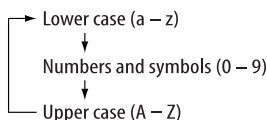
2. Turn the control dial to select a character. (For available characters, see page 32.)

3. Use I◄◄ ∨/►►I ∧ to move to the next (or previous) character position.

4. Repeat steps 1 to 3 until you finish entering the title.

4 Store the title.

ENTER

7

1

To erase the entire title

In step **3** on page 31...

CLEAR

11

5

Available characters

Upper case

A	B	C	D	E	F	G	H	I	J	K	L	M	N
O	P	Q	R	S	T	U	V	W	X	Y	Z	space	

Lower case

a	b	c	d	e	f	g	h	i	j	k	l	m	n
o	p	q	r	s	t	u	v	w	x	y	z	space	

Numbers and symbols

0	1	2	3	4	5	6	7	8	9	!	"	#	$
%	&	'	(	)	*	+	,	−	.	/	:	;	<
=	>	?	@	_	`	space							

More about this unit

◻ Basic operations

Turning on the power

• By pressing SOURCE on the unit, you can also turn on the power. If the source is ready, playback also starts.

Turning off the power

• 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.

General

• 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.
• After ejecting a disc or removing a USB device, "No Disc" or "No USB" appears and you cannot operate some of the buttons. Insert another disc, reattach a USB device, or press SOURCE to select another playback source.

◻ Tuner operations

Storing stations in memory

• During SSM search...
  – All previously stored stations are erased and the stations are stored anew.
  – Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
  – When SSM is over, the station stored in No. 1 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/WMA/AAC formats.
• When a disc is inserted upside down, "Please Eject" appears on the display. Press OPEN, then ⏏ to eject the disc.
• In this manual, words "track" and "file" are interchangeably used.
• While fast-forwarding or reversing on MP3/WMA/AAC/WAV files, you can only hear intermittent sounds.
• File/folder list may not appear correctly if too many hierarchies and folders are used.
• If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. Playback starts automatically.

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 which are detected first if a disc includes both audio CD (CD-DA) files and MP3/WMA/AAC 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/AAC disc

• This unit can play back MP3/WMA/AAC files with the extension code <.mp3>, <.wma>, or <.m4a> (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/AAC Tag.
• This unit can display only one-byte characters. No other characters can be correctly displayed.
• This unit can play back MP3/WMA/AAC files meeting the conditions below:
  MP3:
  – Bit rate: 8 kbps — 320 kbps
  – Sampling frequency:
    48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz, 12 kHz, 11.025 kHz, 8 kHz
  WMA:
  – Bit rate: 32 kbps — 192 kbps
  – Sampling frequency:
    48 kHz, 44.1 kHz, 32 kHz
  AAC:
  – Bit rate: 16 kbps — 320 kbps
  – Sampling frequency:
    48 kHz, 44.1 kHz
  Disc format: ISO 9660 Level 1/Level 2, Romeo, Joliet, Windows long file name

- The maximum number of characters for file/folder names vary depending on the disc format used (includes 4 extension characters—<.mp3>, <.wma>, or <.m4a>).
  – ISO 9660 Level 1: up to 12 characters
  – ISO 9660 Level 2: up to 31 characters
  – Romeo*: up to 128 characters
  – Joliet*: up to 64 characters
  – Windows long file name*: up to 128 characters
- * The parenthetic figure is the maximum number of characters for file/folder names in case the total number of files and folders is 271 or more.
- This unit can recognize a total of 512 files, 200 folders, and 8 hierarchical levels.
- 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/AAC/WAV tracks from a USB device

- Connecting a USB device automatically changes the source to "USB."
- While playing from a USB device, the playback order may differ from the one from other players.
- This unit may be unable to play back some USB devices or some files due to their characteristics or recording conditions.

- 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.
- Connect one USB mass storage class device to the unit at a time. Do not use a USB hub.
- You can connect two types of USB device to this unit—MTP device and Mass storage class device. If you connect an MTP device featuring "USB digital media streaming" to this unit, you can play back the WMA-DRM10 (Digital Right Management) files purchased through the music distributing web sites, through this unit.
- This unit is compatible with the USB Full-Speed.
- 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/AAC/WAV Tag.
- This unit can play back MP3/WMA/AAC/WAV files meeting the conditions below:
  MP3:
  – Bit rate: 32 kbps — 320 kbps (MPEG-1)
               8 kbps — 160 kbps (MPEG-2)
  – Sampling frequency:
    48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
    24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
  WMA:
  – Bit rate: 5 kbps — 320 kbps
  – Sampling frequency: 8 kHz — 48 kHz
  – Channel: 1 ch/2 ch
  AAC:
  – Bit rate: 16 kbps — 320 kbps
  – Sampling frequency: 48 kHz, 44.1 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; 128 characters for MP3/WMA/AAC/WAV Tag.

- This unit can recognize a total of 20 000 files and 2 000 folders (999 files per folder). However, the display can shows until 9 999 folders/files.
- 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.
- This unit may not recognized a 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

General

- While driving, do not perform complicated operation such as dialing the numbers, using phone book, 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.
- Some operations and display information may be different according to the connected phone.
- This unit may not work for some Bluetooth devices.
- Connecting condition may vary depending on the circumstances around you.
- When the unit is turned off, the device is disconnected.

Warning messages for Bluetooth operations

- **Connection Error:**
  The device is registered but the connection has failed. Use "Connect" to connect the device again. (See page 14.)
- **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.

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

- Controllable iPod (connected through....):
  (A) KS-PD100:
  – iPod with dock connector (3rd Generation)
  – iPod with click wheel (4th Generation)
  – iPod nano (1st & 2nd*[1] Generation)
  – iPod mini (1st Generation)
  – iPod video (5th Generation)*[2]
  – iPod photo
  (B) USB cable:
  – iPod nano (1st & 2nd Generation)
  – iPod video (5th Generation)
- *[1] *When you connect the iPod nano to the interface adapter, be sure to disconnect the headphones; otherwise, no sound is heard.*
- *[2] *It is not possible to browse video files on the "Videos" menu while the iPod is connected to the interface adapter.*

- Update your iPod to the latest software version before using it with this unit.
  – You can check the software version of your iPod under "About" in the "Setting" menu of the iPod.
  – For details about updating your iPod, visit <http://www.apple.com>.
- While the unit is being turned on, the iPod is charged through this unit.
- While connecting an iPod with Video:
  – No video shows on the iPod's display or the external monitor (only the audio part is available).
  – It is not possible to browse video files on the "Video" menu. (If you connect the iPod during the playback or pausing of a video file, resuming playback will not work.)
- iPod shuffle and iPhone cannot be used with this unit.
- You can control the iPod from this unit when "JVC" or "√" appears on the iPod display after connection.
- The song order displayed on the selection menu of this unit may differ from that of the iPod.
- If playback is stopped, select a track from the selection menu or press BAND to play back the same track again.
- The text information may not be displayed correctly:
  – Some characters such as accented letters cannot be shown correctly on the display.
  – Communication between the iPod and the unit is not stable.
- If the text information includes more than 16 characters, it scrolls on the display. This unit can display up to 128 characters.

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/support/ks-pd100/index.html>

▉ Title assignment

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

▉ General settings—PSM

- "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.
- If you change the "Amp Gain" setting from "High PWR" to "Low PWR" while the volume level is set higher than "Volume 30," the unit automatically changes the volume level to "Volume 30."

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- iPod and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries.

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

	Symptoms	Remedies/Causes
General	• Sound cannot be heard from the speakers.	• Adjust the volume to the optimum level. • Check the cords and connections.
	• The unit does not work at all.	Reset the unit (see page 3).
	• "Connect Error" appears on the display.	Remove the control panel, wipe the connector, then attach it again (see page 4).
FM/AM	• SSM automatic presetting does not work.	Store stations manually.
	• Static noise while listening to the radio.	Connect the antenna firmly.
Disc playback	• Disc cannot be played back.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped.	• Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc can neither be played back nor ejected.	• Unlock the disc (see page 10). • Eject the disc forcibly (see page 3).
	• Disc sound is sometimes interrupted.	• Stop playback while driving on rough roads. • Change the disc. • Check the cords and connections.
	• Disc cannot be recognized ("No Disc," "CD Loading Error," or "Eject Error" flashes).	Eject the disc forcibly (see page 3).
	• "Please Eject" appears on the display.	Insert a playable disc into the loading slot.

ENGLISH

| Symptoms	Remedies/Causes
MP3/WMA/AAC playback	
• Disc cannot be played back.	• Use a disc with MP3/WMA/AAC tracks recorded in a format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet. • Add the extension code <.mp3>, <.wma>, or <.m4a> to the file names.
• Noise is generated.	Skip to another track or change the disc. (Do not add the extension code <.mp3>, <.wma>, or <.m4a> to non-MP3/WMA/AAC 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 when the files are recorded.
• 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/AAC 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.
• 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 (see page 32).
USB device	
• Noise is generated.	• The track played back is not a playable file format (MP3/WMA/AAC/WAV). Skip to another file. • Do not add the extension code <.mp3>, <.wma>, <.m4a>, or <.wav> to non-MP3/WMA/AAC/WAV tracks.
• Tracks cannot play back as you have intended them to play.	Playback order may differs from the one played back using other players.
• "Reading" keeps flashing on the display.	• Readout time varies depending on the USB device. • Do not use too many hierarchy, folders and empty folders.* • Turn off the power then on again. • Do not pull out or connect the USB device repeatedly while "Reading" is displayed on the display. * *Folder that is phisically empty or folder that contains data but does not contain valid MP3/WMA/AAC/WAV track.*

	Symptoms	Remedies/Causes
USB device	• "No File" flashes on the display. • "No USB" appears on the display.	Connect a USB device that contains tracks encoded in an appropriate format.
	• "Not Support" appears on the display and track skips.	The track is unplayable.
	• "Read failed" appears on the display.	The connected USB device may be malfunctioning, or may not have been formatted correctly. The files included in the USB device are corrupted.
	• Correct characters are not displayed (e.g. album name).	For available characters, see page 32.
	• 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.
	• The sound is interrupted or skipped during playback of a USB device.	• Turn off, then turn on the unit. • Connect the device again, when the sound is not yet restored.
Bluetooth®	• The unit cannot be detected by the Bluetooth device.	• Search from the Bluetooth device again. • Reset the unit. When "Open..." appears on the display, search from the Bluetooth device again.
	• The unit does not make pairing with the Bluetooth device.	Enter the same PIN code for both the unit and target device.
	• Phone sound quality is poor.	• Reduce the distance between the unit and the Bluetooth cellular phone. • Move the car to a place where you can get a better signal reception.
	• The sound is interrupted or skipped during playback of a Bluetooth audio player.	• Reduce the distance between the unit and the Bluetooth audio player. • Disconnect the device connected for "Phone." • Turn off, then turn on the unit. • When the sound is not yet restored: Connect the player again.

	Symptoms	Remedies/Causes
Bluetooth®	• The connected audio player cannot be controlled.	• Check whether the connected audio player supports AVRCP (Audio Video Remote Control Profile). (Operations depend on the connected audio player.) • Disconnect and connect the Bluetooth player again.
	• The unit does not response when you tried to copy the phone book to the unit.	You may have tried to copy the same entries (as stored) to the unit. Press number button 3 to exit.
CD changer	• "No Disc" appears on the display.	Insert a disc into the magazine.
	• "No Magazine" appears on the display.	Insert the magazine.
	• "Reset 08" appears on the display.	Connect this unit and the CD changer correctly and press the reset button of the CD changer.
	• "Reset 01" – "Reset 07" appears on the display.	Press the reset button of the CD changer.
	• The CD changer does not work at all.	Reset the unit (see page 3).
iPod	• The iPod does not turn on or does not work.	• Check the connecting cable and its connection. • Update the firmware version. • Charge the battery.
	• The sound is distorted.	Deactivate the equalizer either on this unit or the iPod.
	• "Disconnect" appears on the display.	• Check the connecting cable and its connection. • Charge the battery.
	• Playback stops.	The headphones are disconnected during playback. Restart the playback operation (see page 20).
	• No sound can be heard when connecting an iPod nano.	• Disconnect the headphones from the iPod nano. • Update the firmware version of the iPod nano.
	• "No File" appears on the display.	No tracks are stored. Import tracks to the iPod.
	• "Reset 01" – "Reset 07" appears on the display.	Disconnect the adapter from both this unit and iPod. Then, connect it again.
	• "Reset 08" appears on the display.	Check the connection between the adapter and this unit.
	• The iPod's controls do not work after disconnecting from this unit.	Reset the iPod.

Maintenance

■ How to clean the connectors

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

Connectors
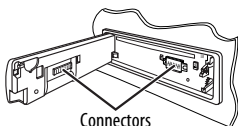
■ Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:
• After starting the heater in the car.
• If it becomes very humid inside the car.
Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture 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, benzine, etc.) to clean discs.

■ To play new discs

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

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

Do not use the following discs:

Single CD (8 cm disc)   Warped disc

Sticker and
sticker residue   Stick-on label

Unusual shape

Specifications

Maximum Power Output:	Front/Rear:	50 W per channel
Continuous Power Output (RMS):	Front/Rear:	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance:		4 Ω (4 Ω to 8 Ω allowance)
Equalizer Control Range:	Frequency:	Band 1: 68 Hz, 100 Hz, 150 Hz Band 2: 210 Hz, 320 Hz, 460 Hz Band 3: 680 Hz, 1 kHz, 1.5 kHz Band 4: 2.1 kHz, 3.2 kHz, 4.6 kHz Band 5: 6.8 kHz, 10 kHz, 15 kHz
	Level:	±12 dB
	Q (Q-slope):	Q0.7 to Q2.0
Frequency Response:		40 Hz to 20 000 Hz
Signal-to-Noise Ratio:		80 dB
Line-Out Level/Impedance:		2.5 V/20 kΩ load (full scale)
Subwoofer-Out Level/Impedance:		4.0 V /20 kΩ load (full scale)
Output Impedance:		1 kΩ
Other Terminal:		CD changer jack, AUX (auxiliary) input jack, USB cable, Antenna input

AUDIO AMPLIFIER SECTION

Frequency Range:	FM:	87.5 MHz to 108.0 MHz
	AM:	531 kHz to 1 602 kHz
FM Tuner:	Usable Sensitivity:	11.3 dBf (1.0 μV/75 Ω)
	50 dB Quieting Sensitivity:	16.3 dBf (1.8 μV/75 Ω)
	Alternate Channel Selectivity (400 kHz):	65 dB
	Frequency Response:	40 Hz to 15 000 Hz
	Stereo Separation:	35 dB
AM Tuner:	Sensitivity:	20 μV
	Selectivity:	35 dB

TUNER SECTION

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: 192 kbps
	AAC (Advanced Audio Coding) Decoding Format:	Max. Bit Rate: 320 kbps

USB SECTION	USB Standards:	USB 1.1, USB 2.0	
	Data Transfer Rate:	Full Speed:	Maximum 12 Mbps
		Low Speed:	Maximum 1.5 Mbps
	Compatible Device:	Mass storage class	
	Compatible File System:	FAT 32/16/12	
	Playable Audio Format:	MP3/WMA/AAC/WAV	
	Max. Current:	500 mA/5 V	

BLUETOOTH	Version:	Bluetooth 1.2 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

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 × 52 mm × 160 mm
		Panel Size:	188 mm × 58 mm × 6 mm
	Mass:		1.4 kg (excluding accessories)

Design and specifications are subject to change without notice.

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

在操作時遇到麻煩了？
請重置本機
參閱如何重置本機之頁

JVC

JVC KD-BT22
Installation/Connection Manual
安裝/連接手冊

ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

WARNINGS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.
• **Be sure to ground this unit to the car's chassis again after installation.**

Notes:
• Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
• It is recommended to connect speakers with a maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "Amp Gain" setting to prevent the speakers from being damaged (see page 28 of the INSTRUCTIONS).
• To prevent short circuits, cover the terminals of the UNUSED leads with insulating tape.
• The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.
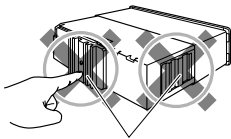
Heat sink / 散熱片

中文

本機僅可使用**直流 12 V、負極接地**的電源系統。如果您的車輛沒有這一電源系統，則需要一個電壓變換器，可以在 JVC 汽車音響分銷商處買到。

警告

為防止短路，建議在安裝本機之前，拔開電池的負極，並把所有電路都連接好。
• 安裝完畢後務必將本機的地線重新接至車身。

注意：
• 把保險絲更換為額定負荷值的保險絲。如果保險絲經常燒壞，請向 JVC 汽車音響分銷商詢問。
• 後置和前置揚聲器的最大輸入功率應大於 50 W，其阻抗為 **4 Ω - 8 Ω**。如果最大功率少於 50 W，請調校"Amp Gain"設定值，以防止揚聲器損壞。（參閱使用說明書的第 28 頁。）
• 為防止電源短路，請用絕緣帶包住**未使用**電線的端子。
• 本機使用後，散熱片會很熱。因此，在移出本機時，小心不要觸摸散熱片。

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.
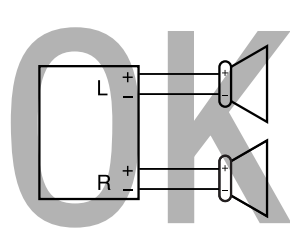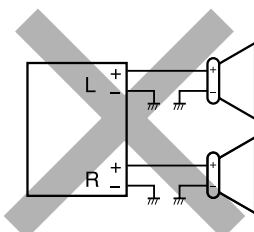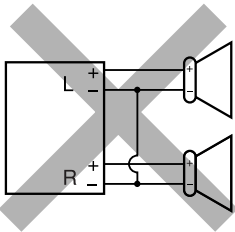
電源和揚聲器接線注意事項：
• 切勿把揚聲器導線接頭接至電池，否則本機將會嚴重損壞。
• 在把揚聲器導線接頭接至揚聲器之前，檢查您汽車上的揚聲器線路。

Parts list for installation and connection
The following parts are provided for this unit. If any item is missing, consult your JVC car audio dealer immediately.

用於安裝和連接的零件清單
下列零件隨本機提供。若有任何遺漏，立刻咨詢您的 JVC 汽車音響經銷商。
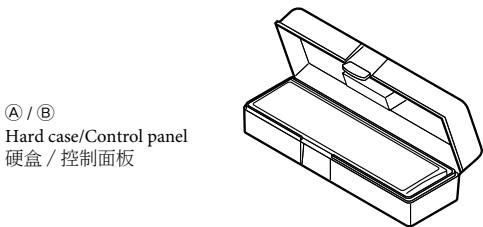
Ⓐ / Ⓑ
Hard case/Control panel
硬盒 / 控制面板

Ⓒ
Sleeve
外套機殼

Ⓓ
Trim plate
裝飾框
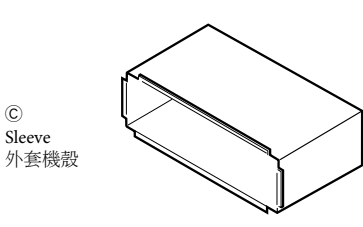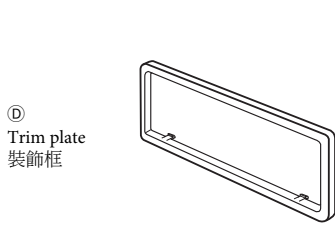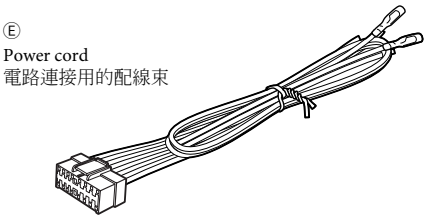
Ⓔ
Power cord
電路連接用的配線束

Ⓕ
Washer (ø5)
墊圈（ø5）

Ⓖ
Lock nut (M5)
鎖定螺母（M5）
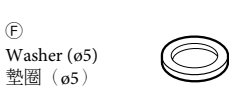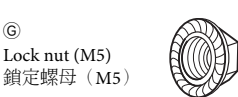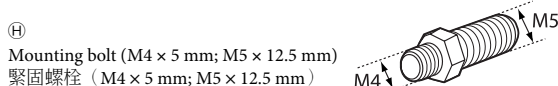
Ⓗ
Mounting bolt (M4 × 5 mm; M5 × 12.5 mm)
緊固螺栓（M4 × 5 mm; M5 × 12.5 mm）
M5
M4
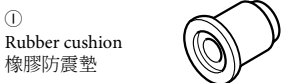
Ⓘ
Rubber cushion
橡膠防震墊

Ⓙ
Handles
板條型把手
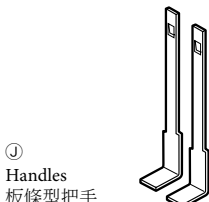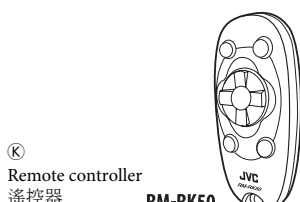
Ⓚ
Remote controller
遙控器
RM-RK50

Ⓛ
Battery
電池
CR2025

1

INSTALLATION (IN-DASH MOUNTING)

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.
• If you are not sure how to install this unit correctly, have it installed by a qualified technician.

安裝（裝設、固定在儀表板內）

下面的圖解表示了典型的安裝程序。如果您有問題，或需要有關配套元件的資料，請向 JVC 汽車音響分銷商或配套元件供應公司詢問。
• 如果您不能確定如何正確地安裝本機，應請合格的技術人員來安裝。

1

2

*1

3

❸ Do the required electrical connections.
進行所需的電路連接。

Bend the appropriate tabs to hold the sleeve firmly in place.
弄彎機殼的突舌，把外套機殼牢固在儀表板內。
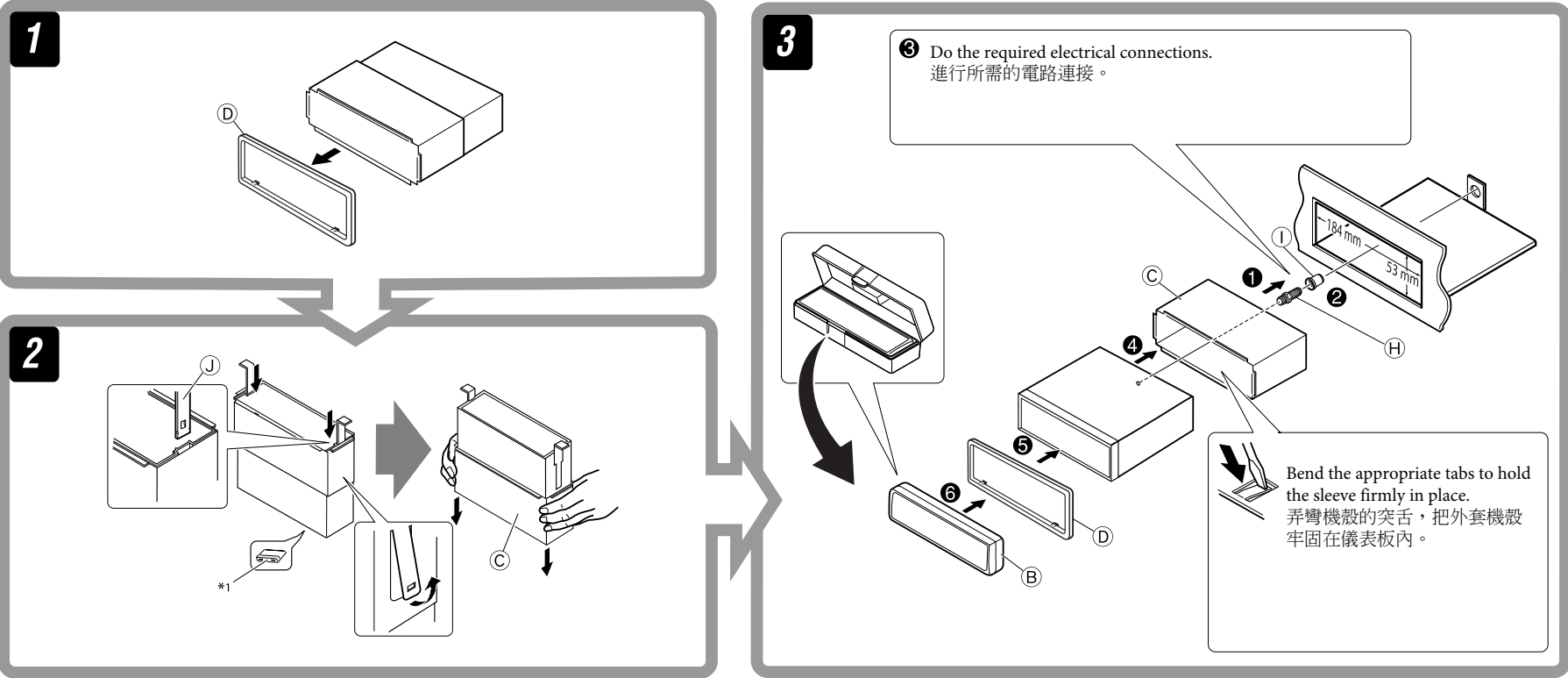
Removing the unit
Before removing the unit, release the rear section.

拆卸本機
在拆卸本機前，應將本機後部的固定和連接部分鬆開。

1

*2

2

3

Insert the two handles, then pull them as illustrated so that the unit can be removed.
按圖所示，將兩片板條型把手插入卡槽，然後輕穩地從兩側向外拉兩片把手，本機隨之拉出。
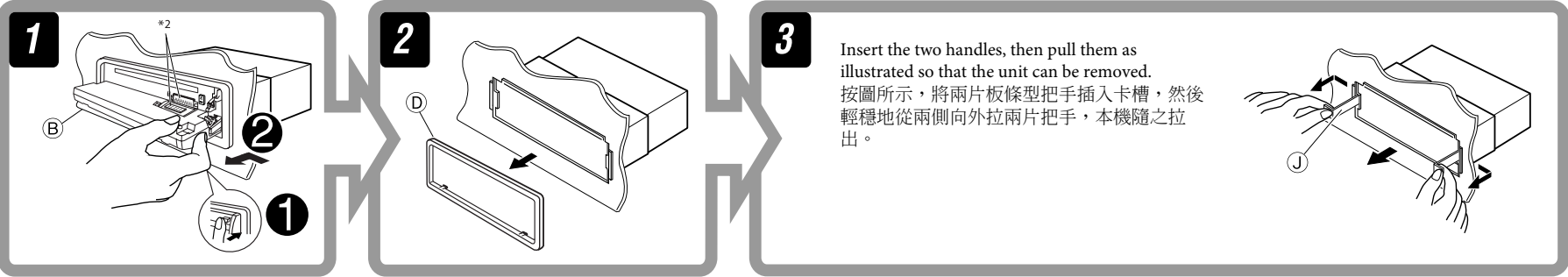
When using the optional stay / 若選用支撐架

Stay (option)
支撐架（選用的）

Fire wall
防火板

Dashboard
儀表板

Screw (option)
螺絲釘（選用的）

30° Install the unit at an angle of less than 30°.
將本機安裝在少於 30° 的角度。
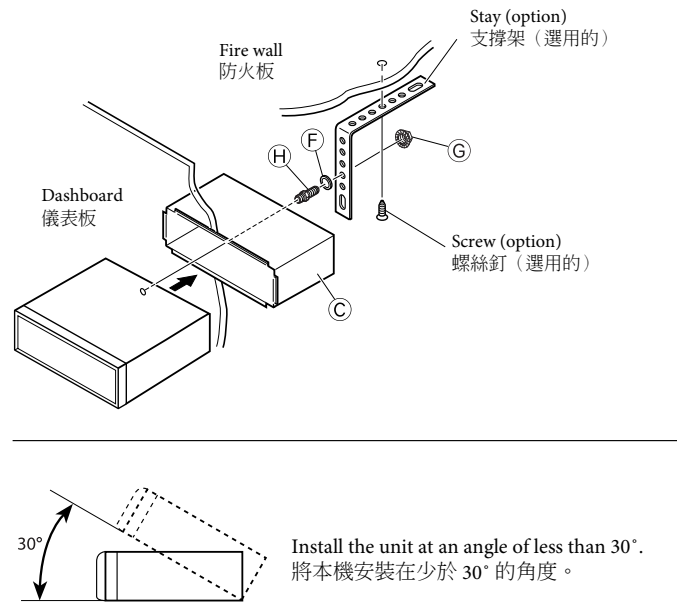
When installing the unit without using the sleeve / 若不使用外套機殼安裝本機

In a Toyota car for example, first remove the car radio and install the unit in its place.
以豐田牌（TOYOTA）汽車為例：首先取出汽車收音機，然後將本機裝入其空出的位置。

Flat head screws (M5 × 8 mm)*3
平頭螺絲釘（M5 × 8 mm）*3

Bracket*3
托座*3

Flat head screws (M5 × 8 mm)*3
平頭螺絲釘（M5 × 8 mm）*3

Pocket
空殼
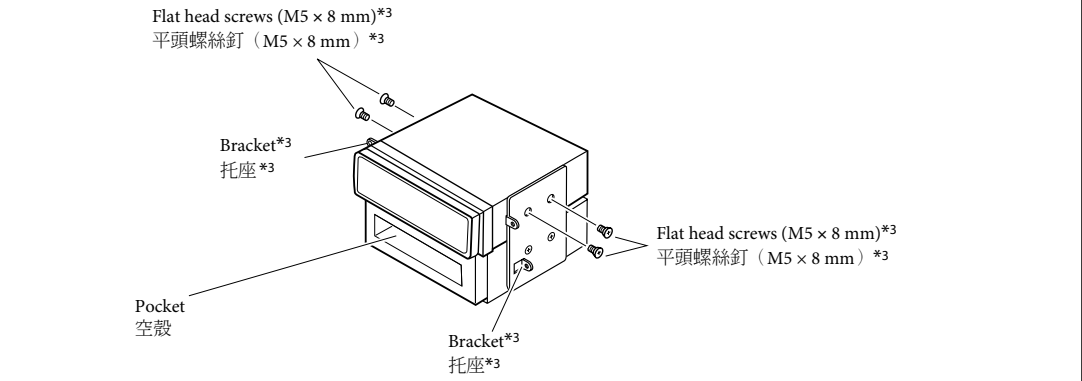
Bracket*3
托座*3

Note : When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.

注意 ：把本機安裝在托座上時，務必使用 8 mm 長的螺絲釘。如使用過長的螺絲釘，會損壞本機。

---

*1 When you stand the unit, be careful not to damage the fuse on the rear.
*2 Avoid touching the connectors.
*3 Not supplied for this unit.

*1 您豎起本機時，小心不要損壞底部的保險絲。
*2 避免接觸連接器。
*3 不隨本機提供。

ELECTRICAL CONNECTIONS　　電路連接

A　Typical connections / 典型的接線方法

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.
The leads of the power cord and those of the connector from the car body may be different in color.

1　Connect the colored leads of the power cord in the order specified in the illustration below.

2　Connect the aerial cord.

3　Finally connect the wiring harness to the unit.

接線前：仔細檢查汽車內的線路。不正確的接線會導致本機嚴重損壞。
電源線的引線和車身的連接器引線在顏色上可能有所不同。

1　依照下圖所示之次序連接電源線的顏色導線。

2　將天線的電線連接起來。

3　最後，把配線束的插頭插在本機上。

SUBWOOFER
(see diagram B)
重低音揚聲器
（參閱圖表 B）

Antenna terminal
天線端子

LINE OUT
(see diagram B)
線性輸出
（參閱圖表 B）

Rear ground terminal
本機後背接地端子

USB cable (see diagram C)
USB 電纜（參閱圖表 C）

15 A fuse
15 A 保險絲

To external components (see diagram C)
接至外接裝置（參閱圖表 C）

Black
黑色　　①　To metallic body or chassis of the car
　　　　　　接至金屬體或汽車底盤

Yellow *2
黃色 *2　②　To a live terminal in the fuse block connecting to the car battery
　　　　　　(bypassing the ignition switch) (constant 12 V)
　　　　　　接至保險絲單元內的帶電端子，保險絲單元與車裝電池相連接
　　　　　　（用於旁幣點火開關）（恆定 12 V）

Red
紅色　　③　To an accessory terminal in the fuse block
　　　　　　接至保險絲單元內的附屬端子

Blue
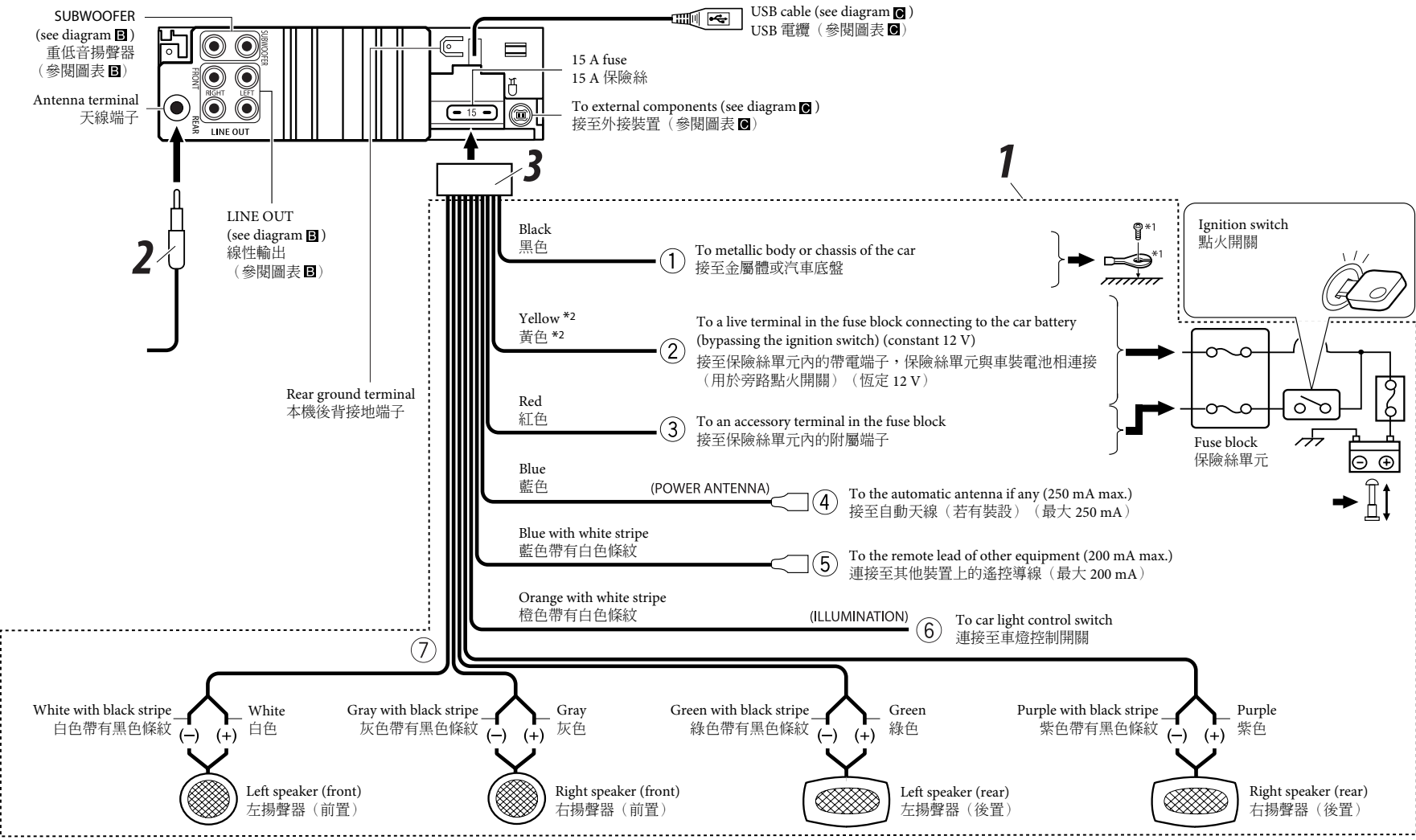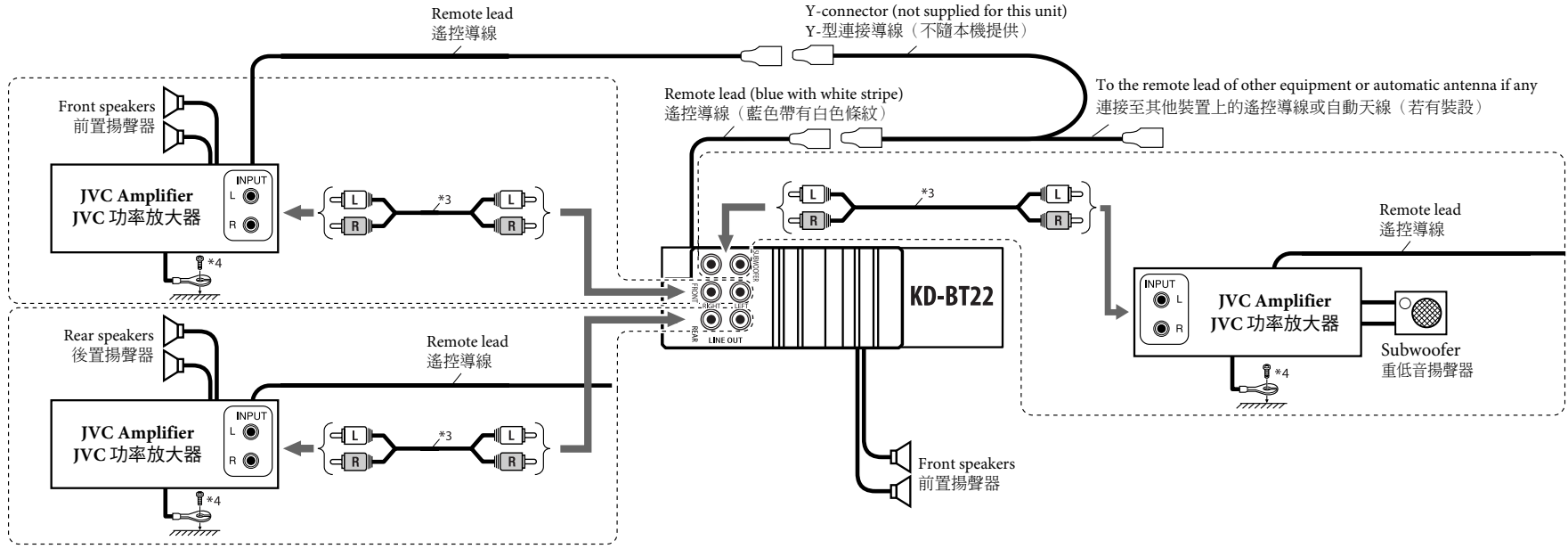藍色　(POWER ANTENNA)　④　To the automatic antenna if any (250 mA max.)
　　　　　　接至自動天線（若有裝設）（最大 250 mA）

Blue with white stripe
藍色帶有白色條紋　　⑤　To the remote lead of other equipment (200 mA max.)
　　　　　　連接至其他裝置上的遙控導線（最大 200 mA）

Orange with white stripe
橙色帶有白色條紋　(ILLUMINATION)　⑥　To car light control switch
　　　　　　連接至車燈控制開關

Ignition switch
點火開關

Fuse block
保險絲單元

White with black stripe　White
白色帶有黑色條紋　白色
Left speaker (front)
左揚聲器（前置）

Gray with black stripe　Gray
灰色帶有黑色條紋　灰色
Right speaker (front)
右揚聲器（前置）

Green with black stripe　Green
綠色帶有黑色條紋　綠色
Left speaker (rear)
左揚聲器（後置）

Purple with black stripe　Purple
紫色帶有黑色條紋　紫色
Right speaker (rear)
右揚聲器（後置）

B　Connecting the external amplifiers and subwoofer / 連接至外部功率放大器和重低音揚聲器

You can connect amplifiers to upgrade your car stereo system.
• Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
• **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**

您可以連接功率放大器以提昇尊車的音響系統。
• 將遙控導線（藍色帶有白色條紋）和其他裝置上的遙控導線連接起來，以便可以經由本機進行遙控。
• 將揚聲器和本機斷開，再接上功率放大器。將本機的揚聲器接線放置不用。

Remote lead
遙控導線

Y-connector (not supplied for this unit)
Y-型連接導線（不隨本機提供）

Remote lead (blue with white stripe)
遙控導線（藍色帶有白色條紋）

To the remote lead of other equipment or automatic antenna if any
連接至其他裝置上的遙控導線或自動天線（若有裝設）

Front speakers
前置揚聲器

JVC Amplifier
JVC 功率放大器

Rear speakers
後置揚聲器

Remote lead
遙控導線

JVC Amplifier
JVC 功率放大器

KD-BT22

Remote lead
遙控導線

JVC Amplifier
JVC 功率放大器

Subwoofer
重低音揚聲器

Front speakers
前置揚聲器

*1　Not supplied for this unit.
*2　Before checking the operation of this unit prior to installation, this lead must be connected, otherwise power cannot be turned on.
*3　Signal cord (not supplied for this unit).
*4　Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place uncoated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.

*1　不隨本機提供。
*2　本機未安裝時，進行工作狀況檢查之前，必須把這導線接上，否則不能開啟電源。
*3　信號電纜（不隨本機提供）。
*4　將地線與金屬車體或者汽車底盤緊密連接，連接處應該沒有被油漆覆蓋（如果已塗上油漆，在連接電線前，將油漆刮去）。如果不這樣做，可能會損壞本機。

C　Connecting the external components / 連接其他外接裝置

When connecting the external components, refer also to the manuals supplied for the components and adapter.

當連接外接裝置時，另參考隨裝置和轉換器附帶的使用手冊。

CAUTION:
Before connecting the external components, make sure that the unit is turned off.

小心：
連接外接裝置之前，先確定本機已經關閉。

You can connect the following JVC components to the CD changer jack.

您可以連接以下 JVC 裝置至 CD 換碟器插孔。

JVC component	Model name
CD changer (CD-CH)	CH-X1500, etc.
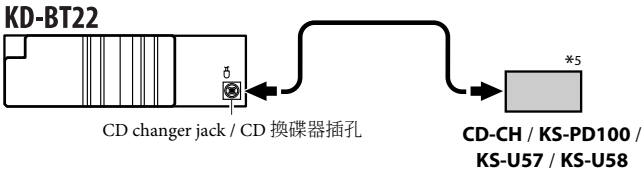
JVC 裝置	型號名稱
CD 換碟器（CD-CH）	CH-X1500 等

You can also connect the following components through the various JVC adapters.
• Connection cords may need to be purchased separately.

您也可以經由不同的 JVC 轉換器連接以下裝置。
• 連接導線可能需要另購。

Component	Adapter	Model name
iPod	Interface adapter for iPod	KS-PD100
Portable audio player with line output jacks	Line input adapter	KS-U57
Portable audio player with 3.5 mm stereo mini jack	AUX input adapter	KS-U58

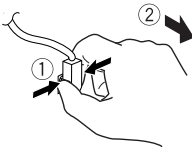| 裝置	轉換器	型號名稱
iPod	iPod 端子轉換器	KS-PD100
帶有線性輸出插孔的便攜式音頻播放機	線性輸入轉換器	KS-U57
帶有 3.5 mm 立體聲迷你型插孔的便攜式音頻播放機	AUX 輸入轉換器	KS-U58

When connecting an external component / 當連接外接裝置時

KD-BT22

CD changer jack / CD 換碟器插孔

*5
CD-CH / KS-PD100 / KS-U57 / KS-U58

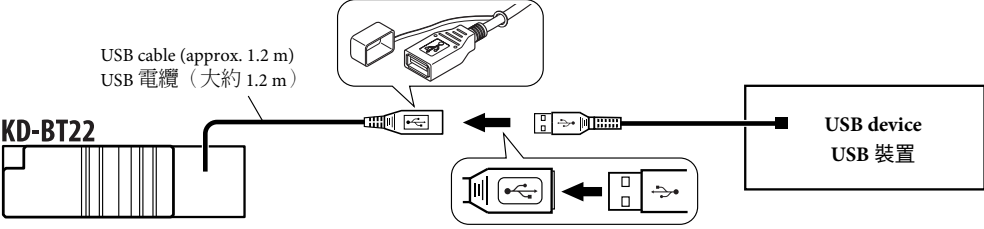**To disconnect the connector / 想要拔開連接器**

② ①

Hold the connector tightly (①), then pull it out (②).
緊按連接器（①），再將其拔出（②）。

USB devices / USB 裝置

You cannot connect a computer to the USB (⟵⟶) cable from the rear of the unit.

您不能將電腦連接至本機後面板上的 USB（⟵⟶）電纜。

USB cable (approx. 1.2 m)
USB 電纜（大約 1.2 m）

KD-BT22

USB device
USB 裝置

iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

iPod 是 Apple Inc.（蘋果公司）在美國及其他國家註冊的商標。

*5　To use these components, set the external input setting correctly (see page 28 of the INSTRUCTIONS).

*5　想要使用這些裝置，正確設定外部輸入設定（參閱使用說明書的第 28 頁）。

TROUBLESHOOTING

• **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?

故障排除

• **保險絲燒斷。**
* 檢查紅色導線接頭和黑色導線接頭是否接觸正確？
• **電源不能接通。**
* 檢查黃色導線接頭是否接上？
• **揚聲器沒有聲音。**
* 檢查揚聲器輸出導線接頭是否短路？
• **聲音失真。**
* 檢查揚聲器輸出端子是否接地？
* 檢查揚聲器的左（L）、右（R）端子的負極"–"是否共同接地？
• **噪音干擾音響。**
* 後接地端子與車身是否使用較短和較厚的電線連接？
• **本機發熱。**
* 檢查揚聲器輸出端子是否接地？
* 檢查揚聲器的左（L）、右（R）端子的負極"–"是否共同接地？
• **本機完全不能操作。**
* 您是否已經重置您的機組？