JVC

KD-AV41BT

MONITOR WITH DVD RECEIVER
INSTRUCTION MANUAL
MONITOR CON RECEPTOR DE DVD
MANUAL DE INSTRUCCIONES

JVC KENWOOD Corporation

Made for
iPod **iPhone**

DVD
VIDEO™

COMPACT
disc
DIGITAL VIDEO

DOLBY
DIGITAL

Bluetooth®

For KD-AV41BT Region 1/KD-AV31 Region 1:

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

FCC NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

⚠️ CAUTION

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

> JVC KENWOOD Corporation
> 2967-3, ISHIKAWA-MACHI, HACHIOJI-SHI, TOKYO, JAPAN
>
> > THIS PRODUCT COMPLIES WITH DHHS RULES 21CFR SUBCHAPTER J IN EFFECT AT DATE OF MANUFACTURE.

Location : Bottom plate

For KD-AV41BT Region 1:

CAUTION

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20 cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

> FCC ID: 2AB7S-KD-AV41BT

For KD-AV41BT Region 4:

> CLASS 1
> LASER PRODUCT

The marking of products using lasers

The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

Before Use

IMPORTANT

To ensure proper use, please read through this manual before using this product. It is especially important that you read and observe WARNINGS and CAUTIONS in this manual. Please keep the manual in a safe and accessible place for future reference.

⚠ Warning

Do not operate any function that takes your attention away from safe driving.

⚠ Caution

Volume setting:
• Adjust the volume so that you can hear sounds outside the car to prevent accidents.
• Lower the volume before playing digital sources to avoid damaging the speakers by the sudden increase of the output level.

General:
• Avoid using the USB device or iPod/iPhone if it might hinder safety driving.
• Make sure all important data has been backed up. We shall bear no responsibility for any loss of recorded data.
• Never put or leave any metallic objects (such as coins or metal tools) inside the unit, to prevent a short circuit.
• If a disc error occurs due to condensation on the laser lens, eject the disc and wait for the moisture to evaporate.

Remote control (RM-RK259):
• Do not leave the remote control in hot places such as on the dashboard.
• The Lithium battery is in danger of explosion if replaced incorrectly. Replace it only with the same or equivalent type.
• The battery pack or batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
• Keep the battery out of reach of children and in original package when not used. Dispose of used batteries promptly. If swallowed, contact a physician immediately.
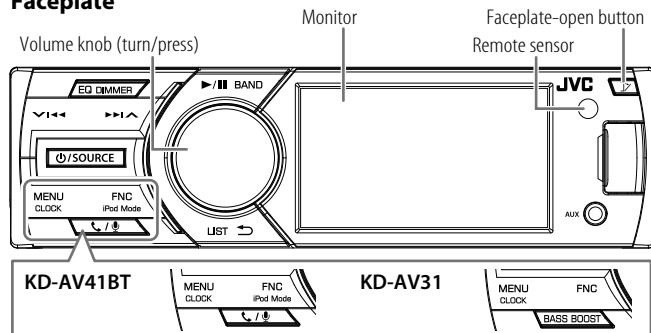
Contents

How to read this manual
• Illustrations of KD-AV41BT are mainly used for explanation. The buttons on the faceplate are used for explaining the operations unless mentioned otherwise. However, if the remote control has the same or similar button names, they can also be used for the operations. For operations from the remote control, see "Remote control (RM-RK259)". (➔ 5)
• **[XX]** indicates the selected items or menu.
• **(➔ XX)** indicates that references are available on the stated page number.
• English indications are used for the purpose of explanation. You can select the indication language from the **[Settings/General]** menu. (➔ 14)
• Updated information (the latest Instruction Manual, system updates, new functions, etc.) is available from <http://www.jvc.net/cs/car/>.

Basics

Faceplate

Volume knob (turn/press)
Monitor
Faceplate-open button
Remote sensor

KD-AV41BT   KD-AV31

Initial setting — Clock adjustment

Synchronizing the clock time with FM RBDS
Activate **[RDS Clock Sync]**. (➜ 6)

Adjusting the clock manually
1 Press ⏻/**SOURCE** to turn on the power.
2 Press **MENU** to display the top menu screen.
3 Turn the volume knob to select **[Settings]**, then press the knob to display the setting menu.
4 Turn the volume knob to select **[⚙]**, then press the knob to display the **[Settings/General]** menu.
5 Turn the volume knob to select **[Time]**, then press the knob.
6 Turn the volume knob to select the time format (**[12 Hour]** or **[24 Hour]**), then press the knob.
7 Turn the volume knob to select **[Adjust]**, then press the knob.
8 Turn the volume knob to adjust the hour, then press the knob.
9 Turn the volume knob to adjust the minute, then press the knob.
10 When **[12 Hour]** is selected in Step **6**: turn the volume knob to select AM or PM, then press the knob.
11 Press ⬏ to exit.

• If no operation is done for about 10 seconds, the operation will be canceled.
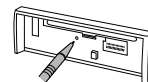• To return to the previous layer, press ⌄ |◀◀.

Attach
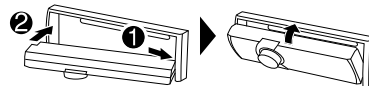
Detach
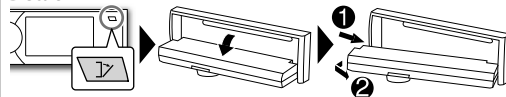
How to reset

Your preset adjustments will also be erased.

| To	Do this
Turn on the power	Press ⏻/**SOURCE**. (The buttons on the faceplate light up.) • Press and hold to turn off the power.
Adjust the volume	Turn the volume knob.
	Press the volume knob to mute the sound. • Press again to cancel.
Select a source	• Press ⏻/**SOURCE** repeatedly. • Press **MENU** to display the top menu screen, and turn the volume knob to select the source, then press the knob.
Display the clock	Press and hold **CLOCK**.

Top menu screen operation
You can select the source or enter the setting menu on the top menu screen.
Press **MENU** to display the top menu screen, turn the volume knob to select the item, then press the knob to confirm the selection.
• If no operation is done for about 10 seconds, the operation will be canceled.
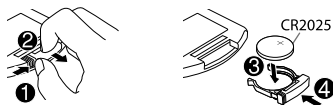• To exit, press ⬏.

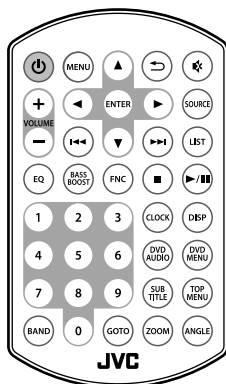For KD-AV41BT: **[iPod]** or **[USB]** (**[iPod]** appears when the iPod/iPhone is connected.)

Tuner   Disc   USB
AUX   BT Audio   Settings

Top menu screen

4
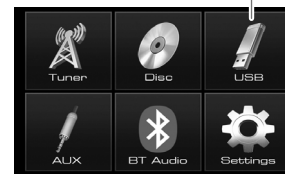
Remote control (RM-RK259)

How to install the battery

CR2025

• If the effectiveness of the remote control decreases, replace the batteries.

• Aim the remote control directly at the remote sensor on the faceplate.
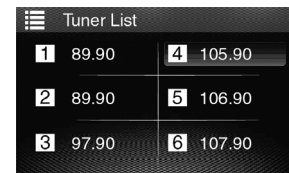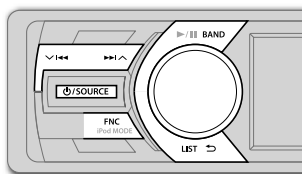• DO NOT expose the remote sensor to bright light (direct sunlight or artificial lighting).

CALIFORNIA, USA ONLY
This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material — special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate

Button	Operations
⏻	Turns the power on/off.
MENU	Displays the top menu screen.
▲/▼/◄/►	Selects an item.
ENTER	Confirms the selection.
VOLUME +/–	Adjusts the volume level.
⏮/⏭	Searches for radio stations automatically. (Press)
	Searches for radio stations manually. (Hold)
	Selects a track. (Press)
	Reverse search/forward search. (Hold)
	Returns to previous layer during menu operation.
EQ	Selects the preset equalizer.
BASS BOOST	Activates/deactivates bass boost.
FNC	Displays the function menu for the source.
0 – 9	Enters the number.
BAND	Selects the band.

Button	Operations
↰	Exits the menu.
🔇	Mutes/restores the sound.
SOURCE	Selects a source.
LIST	Displays the item list for the selected source.
■	Stops playback.
►/❚❚	Starts/pauses playback.
CLOCK	Displays the clock.
DISP	Displays on-screen information.
DVD MENU	Displays the DVD disc menu.
TOP MENU	Displays the DVD disc menu.
DVD AUDIO	Selects the audio language.
SUBTITLE	Selects the subtitle language.
ANGLE	Selects the view angle.
ZOOM	Magnifies the picture. (Not available for still picture playback.)
GOTO	Enters direct search mode.

Tuner

LOCAL indicator
◯◯ indicator

Band
Preset number
Station name (if acquired)
The frequency of the tuned-in station

BASS indicator (➜ 13)
Sound mode indicator (➜ 13)

Tuner source screen

Tuner List

1 89.90		**4** 105.90
2 89.90		**5** 106.90
3 97.90		**6** 107.90

[Tuner List] menu screen

Search for a station

1 Press ⏻**/SOURCE** repeatedly to select **[Tuner]**.

2 Press **BAND** repeatedly to select the band.
- Selectable tuner band varies according to the selected **[Radio Area]** setting:
  - **[Latin]**/**[USA]**: FM1/FM2/FM3/AM1/AM2

3 Press ⌄ ⏮/⏭ ⌃ to search for a station automatically.
- "Auto Seek" appears.
  (or)
  Press and hold ⌄ ⏮/⏭ ⌃ repeatedly to search for a station manually.
- "Manual Seek" appears.

- The ◯◯ indicator lights up when receiving an FM stereo broadcast with sufficient signal strength.
- To store stations, perform **[Manual Store]** or **[Auto Store] (➜ right column)**

Select a stored station

1 Press **LIST** to display the **[Tuner List]** menu.

2 Turn the volume knob to select a preset number, then press the knob.

- If no operation is done for about 10 seconds, the operation will be canceled.
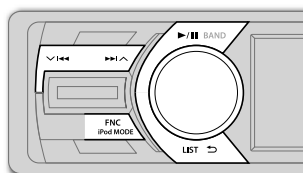- To exit, press ⤺.

Other settings—Tuner function

While listening to a station...

1 Press **FNC** to display the **[Tuner function]** menu.

2 Turn the volume knob to select the item to set (see the table below), then press the knob to make a selection.

3 Press ⤺ to exit.

- If no operation is done for about 10 seconds, the operation will be canceled.
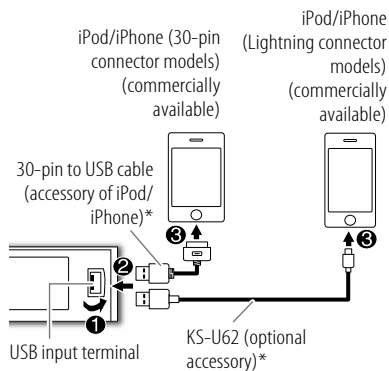
Default: **XX**

Manual Store	Stores a station manually (up to 6 stations for each band). While listening to a station you want to store, turn the volume knob to select a preset number, then press the knob. • The preset number, band, and "Stored OK!" appear.
Auto Store	Automatically searches and stores the 6 stations with the strongest signals for the selected band. • "Auto Store" appears.
Local Seek	**ON**: Tunes in only to the stations with sufficient signal strength. (LOCAL indicator lights up.) **OFF**: Deactivates the function.
Radio Area	**Latin**: For some South American countries, AM/FM intervals: 10 kHz/50 kHz. **USA**: For North/Central/South America, AM/FM intervals: 10 kHz/200 kHz.
RDS Clock Sync	**ON**: Synchronizes the clock time with FM RBDS. **OFF**: Deactivates the function. Set the clock manually. (➜ 4)

iPod/iPhone (Only for KD-AV41BT)

Artwork (shown if the file contains the artwork)

BASS indicator (➜ 13)

Playback status (▶: play/ ‖ : pause)/Playing time/Total playing time

♪ 012/128　　　AM 10:36

♪ Song Name
♫ Artist Name
Album Name

iPod　　BASS　ROCK

▶ 02:32　　　　　　06:32

iPod/iPhone playback screen

Song no./Total song number

Song information

Sound mode indicator (➜ 13)

Playback mode

≡ LIST　1/8　　　　iPod

♪　iPod / iPhone
Playlists
Artists
Albums
Genres

[List] menu screen

Start playback

You cannot play video from the iPod/ iPhone.

iPod/iPhone (30-pin connector models) (commercially available)

iPod/iPhone (Lightning connector models) (commercially available)

30-pin to USB cable (accessory of iPod/ iPhone)*

USB input terminal

KS-U62 (optional accessory)*

"USB Reading" appears, the source changes to **[iPod]**, and playback starts. (Current control mode appears for 2 seconds.) **(➜ right column)**

* Do not leave the cable inside the car when not using it.

To	Do this
Play/pause	Press ▶/ ‖.
Select the control mode	Press and hold **iPod MODE**. • To control music playback from this unit, select **[Head Unit Mode]**. • To control music playback from the iPod/ iPhone, select **[iPod Mode]**.
Select a song	Press ⌄ ⏮/⏭ ⌃ repeatedly.
Reverse/Fast-forward	Press and hold ⌄ ⏮/⏭ ⌃.
Select a song from the list	1 Press **LIST** to display the **[List]** menu. 2 Turn the volume knob to select an item, then press the knob. 　1.Select [♪]. 　2.Select category (**[Playlists]**/**[Artists]**/ **[Albums]**/**[Genres]**/**[Songs]**/ **[Composers]**/**[Audiobooks]**/ **[Podcasts]**) 　3.Select desired item. • If no operation is done for about 10 seconds, the operation will be canceled. • To return to the previous layer, press ⌄ ⏮. • To exit, press ⤺.

Other settings—iPod function

1 Press **FNC** to display the **[iPod function]** menu.
2 Turn the volume knob to select the item to set (see the table below), then press the knob to make a selection.
3 Press ⤺ to exit.

• If no operation is done for about 10 seconds, the operation will be canceled.

Default: **XX**

|	
Repeat*	**OFF**: Normal playback. (⇥ indicator lights up.) **One**: Functions the same as "Repeat One". (⇄ indicator lights up.) **All**: Functions the same as "Repeat All". (⇄ indicator lights up.)
Random*	**OFF**: Normal playback. (⇥ indicator lights up.) **Songs**: Functions the same as "Shuffle Songs". (⤨ indicator lights up.) **Albums**: Functions the same as "Shuffle Albums". (⤨ indicator lights up.)
Audiobook	**Normal**/**Slow**/**Fast**: Selects the speed of audiobooks.

* You cannot activate repeat mode and random mode at the same time. (**[OFF]** is automatically selected for the previously activated mode.)

Disc/USB

Start playback

Disc

Label side
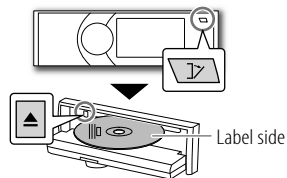
"DISC Reading" appears, the source changes to **[Disc]**, and playback starts.
• When the file list (the **[List]** menu) is displayed, turn the volume knob to select the file, then press the knob to start playback.
• To eject a disc, press ⏏ to open the faceplate, then press ▲ while the power is turned on.

USB device

USB input terminal

USB 2.0 cable* (commercially available)
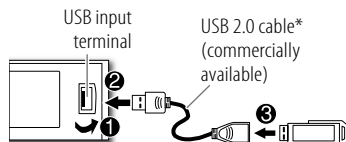
"USB Reading" appears, the source changes to **[USB]**, and playback starts.

* Do not leave the cable inside the car when not using it.
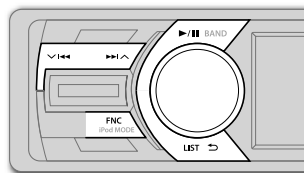
Folder no./Total folder number (MP3/WMA)

Source (**[Disc]** or **[USB]**)

BASS indicator (➜ 13)

Playback status (▶: play/❚❚: pause)/Playing time/Total playing time

Track/file no. / Total track/file number

Track/file information

Sound mode indicator (➜ 13)

Playback mode

Audio playback screen

CD/MP3/WMA

To	Do this
Play/pause	Press ▶/❚❚.
Select a track/file	Press ⌄ ⏮/⏭ ⌃ repeatedly.
Reverse/Fast-forward	Press and hold ⌄ ⏮/⏭ ⌃.
Select a file from a list	1 Press **LIST** to display **[List]** menu. 2 When the disc/device contains different types of files: Press **LIST** repeatedly to select the file type (♪). 3 Turn the volume knob to select an item, then press the knob. 1.MP3/WMA: Select a folder (if contained). 2.Select a track/file. • If no operation is done for about 10 seconds, the operation will be canceled. • To return to the previous layer, press ⌄ ⏮.

Other settings—CD function/Media function

1 Press **FNC** to display the **[CD function]** (CD) or **[Media function]** (MP3/WMA) menu.
2 Turn the volume knob to select the item to set (see the table below), then press the knob to make a selection.
3 Press ⤺ to exit.

• If no operation is done for about 10 seconds, the operation will be canceled.

Default: **XX**

Repeat	**All**: Repeats all tracks/files. (indicator lights up.) **One**: Repeats current track/file. (indicator lights up.) **Folder**: Repeats all files in the current folder. (indicator lights up.)
Random	**OFF**: Normal playback. **ON**: Randomly plays all tracks/files. (indicator lights up.)

• You cannot activate repeat mode and random mode at the same time. (**[OFF]** is automatically selected for the previously activated mode.)
If both the repeat mode and random mode are set to **[OFF]**, the unit repeats all tracks/files (indicator lights up.)
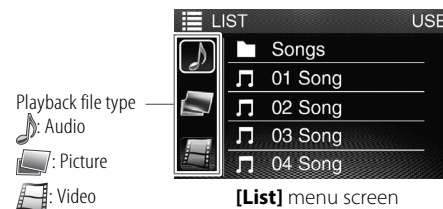
Playback information
- DVD Video: Title no./Chapter no./Playing time
- VCD/MPEG1/MPEG2: Playing time

Video playback screen

For DVD/VCD/MPEG1/MPEG2: On-screen information is displayed by pressing **DISP** on the remote control.

Playback file type
♪ : Audio
: Picture
: Video

[List] menu screen

DVD/VCD/MPEG1/MPEG2/JPEG

To	Do this
Play/pause	Press ►/❙❙.
Select a chapter/track/file	Press ⌄ ◄◄/►►❙ ⌃ repeatedly.
Reverse/Fast-forward	Press and hold ⌄ ◄◄/►►❙ ⌃. • Each time you press the button, the search speed changes.
Select an item from the disc menu/list	**1** Press **LIST**. DVD: Disc menu is displayed. VCD with PBC: PBC menu is displayed. • For VCD without PBC, the playback is started from the 1st track. MPEG1/MPEG2/JPEG: **[List]** menu is displayed. **2** When the disc/device contains different types of files: Press **LIST** repeatedly to select a playback file type ([ ]: video file/[ ]: picture file). **3** Turn the volume knob to select an item, then press the knob. Repeat the procedure until playback starts. • If no operation is done for about 10 seconds, the operation will be canceled. • To return to the previous layer, press ⌄ ◄◄. • DVD/VCD: To exit, press ⟵.

Various disc operations from the remote control (RM-RK259)	
Display the playback information	Press **DISP**. • To erase, press the button again.
Display the disc menu (DVD)	Press **DVD MENU** or **TOP MENU**.
Search for a chapter/ title/scene directly (DVD)	**1** Press **GOTO**. • Each time you press the button, the target item switches between chapter, title, and time. **2** Use the number buttons to select a chapter/title/scene. **3** Press **ENTER**.
Select the track from PBC menu (VCD)	Press **LIST** to display the PBC menu, then press the number button to select a track.
Select audio language	Press **DVD AUDIO** repeatedly.
Select subtitle language	Press **SUBTITLE** repeatedly.
Select view angle	Press **ANGLE** repeatedly.
Magnify the picture (except for JPEGs)	Press **ZOOM** repeatedly.

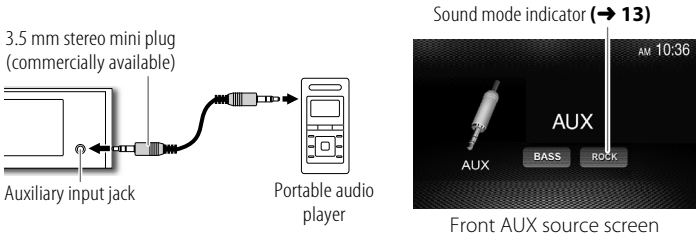## Other settings—DVD function/VCD function/Media function

1 Press **FNC** to display the **[DVD function]** (DVD), **[VCD function]** (VCD), or **[Media function]** (MPEG1/MPEG2) menu.

2 Turn the volume knob to select the item to set (see the table below), then press the knob to make a selection.

3 Press ⏎ to exit.

• If no operation is done for about 10 seconds, the operation will be canceled.

Default: **XX**

DVD/VCD/MPEG1/MPEG2	**Repeat**	DVD	**OFF**: Normal playback. **Ch**: Repeats current chapter. **Tt**: Repeats current title.
		VCD	**All**: Repeats all tracks/files. **One**: Repeats current track/file.
		MPEG1/MPEG2	**All**: Repeats all tracks/files. **One**: Repeats current track/file. **Folder**: Repeats all files in the current folder.
DVD	**DVD Audio**		Selects the audio language.
	Subtitle		Selects the subtitle language.
	Angle		Selects the view angle.
	Aspect Ratio		**16:9** / **4:3**: Selects the aspect ratio.
VCD	**Channel**		**Stereo** / **Left** / **Right**: Selects the audio channel.
	PBC		**ON**: Activates the PBC function. **OFF**: Deactivates the PBC function. • When PBC is activated, repeat mode is automatically deactivated (**[Off]**).
All discs/files	**Brightness**		**–00 — +08** (**04**): Adjusts the brightness.
	Contrast		**–00 — +08** (**04**): Adjusts the contrast.
	Color		**–00 — +08** (**04**): Adjusts the colors.
	Default		Restores the default settings.

External Components

Use a portable audio player (AUX)

3.5 mm stereo mini plug (commercially available)

Sound mode indicator (➜ 13)

Auxiliary input jack

Portable audio player

Front AUX source screen

1 Connect a portable audio player (commercially available).

2 Press ⏻/**SOURCE** repeatedly to select **[AUX]**.

3 Turn on the portable audio player and start playback.

Use a 3-core plug head stereo mini plug for optimum audio output.
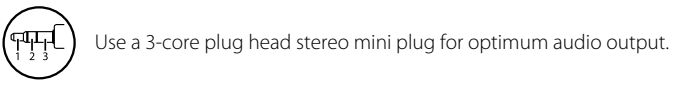
Use a rear view camera

To use a rear view camera, the REVERSE GEAR SIGNAL wire connection is required. For details, see "Installation/Connection". (➜ 20)

When a rear view camera is connected, the rear view screen is displayed when you shift the gear to the reverse (R) position.

• Check the safety of your surroundings with your eyes before backing up.

Rear view screen

Bluetooth (Only for KD-AV41BT)

Information for using Bluetooth® devices

Bluetooth®

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

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

> **About mobile phones compatible with Phone book Access Profile (PBAP)**
> If your mobile phone supports PBAP, you can display the following items on the touch panel screen when the mobile phone is connected.
> • Phone book (up to 9999 entries)
> • Dialed calls, received calls, and missed calls (up to 10 entries in total)

Connecting a Bluetooth device

To use a Bluetooth device (mobile phone or audio player), pair the device and the unit. Pairing allows Bluetooth devices to communicate with each other.
• Use a Bluetooth device compatible with Bluetooth 3.0.
• You can pair the device and the unit using SSP (Secure Simple Pairing) which only requires confirmation.
• Once a device and the unit are paired, the unit is registered on the device. When you next use the device with the unit, you can connect the device and the unit by selecting from the registered device list on your device.
• One device can be connected at a time.

Auto pairing
When iPod/iPhone is connected to the USB input terminal, the unit establishes pairing automatically with the connected iPod/iPhone even if the Bluetooth function is deactivated on iPod/iPhone.

Pairing a Bluetooth device manually
1 **Turn on the Bluetooth function on your Bluetooth device.**
2 **Search for the unit ("JVC unit") from your Bluetooth device.**
3 **Confirm the request on the device.**
   Pairing and connection are established. "Connect OK" appears.
   • " " appears when the Bluetooth mobile phone is connected.
   • " " appears when the Bluetooth audio player is connected.
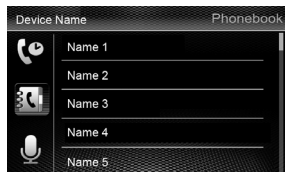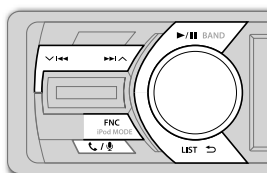
Disconnecting the device
Turn off the ignition switch.

Checking the information about the paired device
Select **[BT Info]** on the **[Settings/Bluetooth]** menu. **(➜ 14)**

Bluetooth

Phone screen ([**Phonebook**])

Voice dialing screen

BASS indicator (→ 13)

Playback status (▶: play/❚❚: pause)/ Playing time/Total playing time

Track information

Sound mode indicator (→ 13)

Bluetooth audio playback screen

### Bluetooth mobile phone

To	Do this
Make a call	1 Press 📞 / 🎤. The phone screen ([**Phonebook**]) is displayed. 2 Press ⌄ ⏮, turn the volume knob to select a method to make a call ([📞]: from the calls history/[📞]: from the phone book), then press the knob. 3 Turn the volume knob to select the target, then press the knob to make a call. • To return to the previous layer, press ⌄ ⏮. • To exit, press ⤺.
Receive a call	Press the volume knob when a call comes in.
Use voice dialing	1 Press and hold 📞 / 🎤 to display the voice dialing screen. • You can also display the voice dialing screen by selecting [🎤] as the method to make a call on the phone screen. 2 Press the volume knob to activate voice recognition function. "Please speak after the beep" appears and the beep sounds. 3 Say the name of the person you want to call. • To exit, press ⤺.
Switching between handsfree mode and phone mode	While talking, press **FNC**. Each time you press the button, "Transfer!" appears and talking method is switched between handsfree mode and phone mode.

Bluetooth audio player

To	Do this
Start Bluetooth audio player	Press ⏻/**SOURCE** repeatedly to select [**BT Audio**].
Play/pause	Press ▶/❚❚.
Select a track	Press ⌄ ⏮/⏭ ⌃ repeatedly.
Reverse/Fast-forward	Press and hold ⌄ ⏮/⏭ ⌃.
Select an item from the track list	1 Press **LIST** to display the track list. 2 Turn the volume knob to select an item, then press the knob. Repeat the procedure until playback starts. • If no operation is done for about 10 seconds, the operation will be canceled. • To return to the previous layer, press ⌄ ⏮. • To exit, press ⤺.

Sound/Display/Other Settings
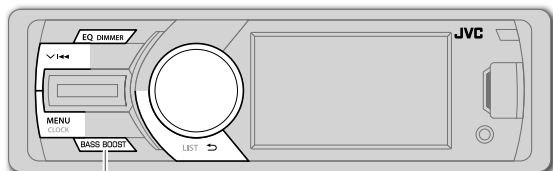
Only for KD-AV31. For KD-AV41BT, operate on the **[Settings/Audio]** menu, or from the remote control (RM-RK259).

[Settings/Audio] menu

## Select a preset equalizer (EQ)

Press **EQ** repeatedly to select a preset sound mode — **[Flat]** (default)/**[Pop]**/**[User]**/**[Techno]**/**[Rock]**/**[Classic]**/**[Jazz]**/**[Optimal]**. (Corresponding sound mode indicator lights up.)

Store your own sound settings

1 Press **EQ** repeatedly to select **[User]**.
2 Press **MENU** to display the top menu screen.
3 Turn the volume knob to select **[Settings]**, then press the knob to display the setting menu.
4 Check that **[ ]** (**[Settings/Audio]**) is selected, then press the knob.
5 Turn the volume knob to select the item to set (**[Bass]**/**[Treble]**), then press the knob.
6 Turn the volume knob to adjust the value, then press ∨ |◀◀.
7 Repeat steps **5** and **6** to adjust the value for other settings.
8 Press ⤺ to exit.
   The setting is stored to **[User]** in EQ.

• If no operation is done for about 10 seconds, the operation will be canceled.
• To return to the previous layer, press ∨ |◀◀.
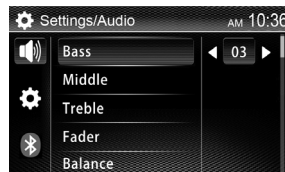
Activate the bass boost

Press **BASS BOOST**. (BASS indicator lights up.)
• To cancel, press the button again.

Only for KD-AV41BT:
You can also activate/deactivate the bass boost on the **[Settings/Audio]** menu.
1 Press **MENU** to display the top menu screen.
2 Turn the volume knob to select **[Settings]**, then press the knob to display the setting menu.
3 Check that **[ ]** (**[Settings/Audio]**) is selected, then press the knob.
4 Turn the volume knob to select **[Bass Boost]**, then press the knob.
5 Turn the volume knob to select **[ON]** (to activate) or **[OFF]** (to deactivate), then press ∨ |◀◀.
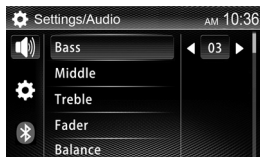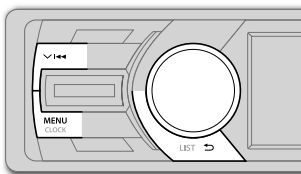6 Press ⤺ to exit.

• If no operation is done for about 10 seconds, the operation will be canceled.
• To return to the previous layer, press ∨ |◀◀.
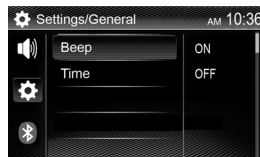
Change the display brightness (Dimmer)

Press and hold **DIMMER** repeatedly to select **[Dimmer Low]** or **[Dimmer High]**.

[Settings/Audio] menu

[Settings/General] menu

[Settings/Bluetooth] menu

Change the general settings/check information on the [Settings] menu

1 Press **MENU** to display the top menu screen.
2 Turn the volume knob to select **[Settings]**, then press the knob to display the setting menu.
3 Turn the volume knob to select the category (📢: **[Settings/Audio]**/
⚙: **[Settings/General]**/ᛒ: **[Settings/Bluetooth]**), then press the knob.
4 Turn the volume knob to select the item to set (see the table on the right column), then press the knob.
5 Turn the volume knob to change the setting, then press the knob.

• If no operation is done for about 10 seconds, the operation will be canceled.
• To return to the previous layer, press ∨ ⏮.
• To exit, press ↰.

Default: **XX**

Settings/Audio (📢)

Bass[*1]	**–15** — **+15** (**00**): Adjusts the sound elements of the bass tone.
Middle[*1]	**–15** — **+15** (**00**): Adjusts the sound elements of the middle tone.
Treble[*1]	**–15** — **+15** (**00**): Adjusts the sound elements of the treble tone.
Fader	**R12** — **F12** (**00**): Adjusts the front and rear speaker output balance.
Balance	**L12** — **R12** (**00**): Adjusts the left and right speaker output balance.
Bass Boost[*2]	**ON**/**OFF**: Activates or deactivates the bass boost.

Settings/General (⚙)

Beep	**ON**/**OFF**: Activates or deactivates the keypress tone.
Time	**12 Hour**/**24 Hour**: Selects time format. **Adjust**: Adjusts the clock.
Language	**English**/**Spanish**: Selects the text language used for on-screen information.

Settings/Bluetooth (ᛒ)[*2]

Sync Phonebook	**ON**/**OFF**: Activates or deactivates the synchronization of the phonebook in the connected mobile phone with the unit.
BT Info	Displays the information about the connected Bluetooth device (device name, phone name, Bluetooth version, and mac address).

[*1] Adjustable only when **[User]** is selected as the sound mode.
[*2] Only for KD-AV41BT.

More Information

About discs
- Playable discs:

Disc type	Recording format, file type, etc.
DVD • DTS sound cannot be reproduced or emitted from this unit.	DVD Video*1
DVD Recordable/Rewritable (DVD-R/-RW*2**, +R/+RW***3**)** • DVD Video: UDF bridge • MPEG1/MPEG2/JPEG/MP3/WMA: ISO 9660 level 1, level 2, Romeo, Joliet	• DVD Video • MPEG1/MPEG2 • JPEG • MP3/WMA
Dual Disc	DVD side
CD/VCD	• VCD (Video CD) • Audio CD/CD-DA
CD Recordable/Rewritable (CD-R/-RW) • ISO 9660 level 1, level 2, Romeo, Joliet	• VCD (Video CD) • CD-DA • MPEG1/MPEG2 • JPEG • MP3/WMA

*1 DVD Video Region Code:
North America area: 1
South America area: 4
*2 DVD-R recorded in multi-border format are also playable (except for dual layer discs). DVD-RW dual layer discs are not playable.
*3 It is possible to play back finalized +R/+RW (Video format only) discs. "DVD" is selected as the disc type when a +R/+RW disc is loaded. +RW double layer discs are not playable.

- Unplayable discs:
  - DVD-Audio, DVD-ROM (data), DVD-RAM, DVD+R/DVD+RW recorded in the DVD-VR/DVD+VR format, DTS-CD, SVCD (Super Video CD), CD-ROM, CD-I (CD-I Ready), etc.
  - Discs that are not round.
  - Discs with coloring on the recording surface or discs that are dirty.
  - Recordable/ReWritable discs that have not been finalized.
  - 3 inch discs. Attempting to insert using an adapter may cause malfunction.
- **DualDisc playback:** The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of the Non-DVD side of a DualDisc on this product cannot be recommended.

About USB devices
- This unit can play MPEG1/MPEG2/JPEG/MP3/WMA files stored on a USB mass storage class device.
- You cannot connect a USB device via a USB hub or Multi Card Reader.
- Connecting a cable whose total length is longer than 5 m may result in abnormal playback.
- The maximum number of characters for:
  - Folder names: 50 characters
  - File names: 50 characters
  - MP3/WMA Tag: 50 characters
- This unit can recognize a total of 65 025 files, 255 folders (255 files per folder including folder without unsupported files), and of 8 hierarchies.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 1 A.

About files
- Playing MPEG1/MPEG2 files:
  - This unit can play back MPEG1/MPEG2 files with the extension code <.mpg> or <.mpeg>.
  - The stream format should conform to MPEG system/program stream.
  - Audio streams should conform to MPEG1 Audio Layer-2, Dolby Digital or MP3.
  - The maximum bit rate for video signals (average) is 4 Mbps.
  - Files encoded in the interlaced scanning mode may not be played back correctly.
- Playing JPEG files:
  - This unit can play back JPEG files with the extension code <.jpg>.
  - This unit can play back JPEG files that are at 32 x 32 to 8 192 x 7 680 resolution.
    It may take time to display the file depending on its resolution.
  - This unit can play back baseline JPEG files. Progressive JPEG files or lossless JPEG files cannot be played.

- Playing MP3/WMA files:
  - This unit can play back files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
  - This unit can play back the files meeting the conditions below:
    - Bit rate: 32 kbps – 320 kbps
    - Sampling frequency: 8 kHz – 48 kHz
  - This unit can show ID3 Tag Version 1.0/1.1/2.2/2.3/2.4 (for MP3).
  - This unit can also show WMA Tag.
  - This unit can play back files recorded in VBR (variable bit rate).
  - Files recorded in VBR have a discrepancy in elapsed time indication.
  - This unit cannot play back the following files:
    - MP3 files encoded with MP3i and MP3 PRO format.
    - MP3 files encoded with Layer 1/2.
    - WMA files encoded with lossless, professional, and voice format.
    - WMA files which are not based upon Windows Media® Audio.
    - WMA files copy-protected with DRM.

About iPod/iPhone

- Made for
  - iPod touch 4th generation
  - iPod touch 3rd generation
  - iPod touch 2nd generation
  - iPod classic
  - iPod nano (6th Generation)
  - iPod nano (5th Generation)
  - iPod nano (4th Generation)
  - iPod nano (3rd Generation)
  - iPhone 6 Plus
  - iPhone 6
  - iPhone 5S
  - iPhone 5C
  - iPhone 5
  - iPhone 4S
  - iPhone 4
  - iPhone 3GS
  - iPhone 3G
- The song order displayed on the selection menu of this unit may differ from that of the iPod/iPhone.
- Video playback is not compatible with this unit.

Maintenance

Cleaning the unit: Wipe off dirt on the faceplate with a dry silicon or soft cloth.

Cleaning the connector: Detach the faceplate and clean the connector gently with a cotton swab, being careful not to damage the connector.
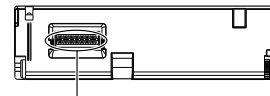
Connector (on the reverse side of the faceplate)

Handling discs:
- Do not touch the recording surface of the disc.
- Do not stick tape etc. on the disc, or use a disc with tape stuck on it.
- Do not use any accessories for the disc.
- Clean from the center of the disc and move outward.
- Clean the disc with a dry silicon or soft cloth. Do not use any solvents.
- When removing discs from this unit, pull them out horizontally.
- Remove burrs from the center hole and disc edge before inserting a disc.

Troubleshooting

	Symptom	Remedy
General	Sound cannot be heard.	• Adjust the volume to the optimum level. • Check the cords and connections.
	"PARKING is not enabled. No video while driving." appears and no playback picture is shown.	Parking brake is not engaged.
	The unit does not work at all.	Reset the unit. **(➜ 4)**
	The remote control does not work.	Replace the battery.
	Playback source cannot be selected.	The source is not ready. Insert a disc or connect a device beforehand.
Discs/USB device/files	• Recordable/Rewritable discs cannot be played back. • Tracks on the Recordable Rewritable discs cannot be skipped.	• Insert a finalized disc. • Finalize the discs with the component which you used for recording.
	"DVD Region Error" appears and DVD-Video does not play.	Insert a disc with the correct Region Code.
	Playback order is not as intended.	The playback order is determined by the file name (USB) or the order in which files were recorded (disc).
	Elapsed playing time is not correct.	The elapsed playing time depends on the recording process used.
	Playback does not start or the track is skipped.	• Check whether the track is a playable format. **(➜ 15)** • Record the tracks using a compliant application on the appropriate discs. • Add appropriate extension codes to the file name.
	It takes a long time to read the file.	• Do not use too many hierarchical levels and folders. • Reload the disc or reattach the USB device.
	Connected device cannot be detected.	• Check whether the connected device is compatible with this unit and ensure the files are in supported formats. **(➜ 15)** • Reattach the device.

	Symptom	Remedy
Tuner	• Radio reception is poor. • Static noise while listening to the radio.	• Connect the antenna firmly. • Pull the antenna out all the way.
iPod/iPhone*	The iPod/iPhone does not turn on or does not work.	• Check the connection between this unit and the iPod/iPhone. • Check whether the control mode is appropriate. **(➜ 7)** • Detach and reset the iPod/iPhone using hard reset.
	Sound is distorted.	Deactivate the equalizer either on this unit or the iPod/iPhone.
Bluetooth*	Phone sound quality is poor.	• Reduce the distance between the unit and the Bluetooth mobile phone. • Move the car to a place where you can get a better signal reception.
	The sound is interrupted or skipped while using a Bluetooth audio player.	• Reduce the distance between the unit and the Bluetooth audio player. • Turn off, then turn on the unit. (When the sound is not yet restored) connect the player again.
	The connected audio player cannot be controlled.	• Check whether the connected audio player supports AVRCP (Audio Video Remote Control Profile).
	The Bluetooth device does not detect the unit.	Search from the Bluetooth device again.
	The unit does not pair with the Bluetooth device.	• Turn off, then turn on the Bluetooth device. • Disconnect the device currently connected.

* Only for KD-AV41BT.

Specifications

Amplifier			
Maximum Power Output	Front/Rear	50 W per channel	
Continuous Power Output (RMS)	Front/Rear	20 W per channel	
Load Impedance	4 Ω (4 Ω to 8 Ω allowance)		
Audio Output Level (REAR OUT)	Line-Out Level/Impedance	2.5 V/10 kΩ load (full scale)	
	Output Impedance	1 kΩ	
Video Output (composite) (VIDEO OUT)	Color System	NTSC	
	Video-out Level/Impedance	1 Vp-p/75 Ω	
Other terminals	Input	Camera In, USB input, AUX, Antenna input	

Tuner			
FM	Frequency Range	With channel interval set to 50 kHz	87.5 MHz to 108.0 MHz
		With channel interval set to 200 kHz	87.9 MHz to 107.9 MHz
	Usable Sensitivity	9 dBf (0.8 μV/75 Ω)	
	50 dB Quieting Sensitivity	14 dBf (1.8 μV/75 Ω)	
	Alternate Channel Selectivity	65 dB (at 400 kHz)	
	Frequency Response	35 Hz to 14 000 Hz	
	Stereo Separation	42 dB	
AM	Frequency Range (10 kHz)	530 kHz to 1 700 kHz	
	Sensitivity/Selectivity	20 μV/55 dB	

USB		
USB Standard	USB 1.1 Full Speed	
Compatible Device	Mass storage class	
Compatible File System	FAT 32/16	
Maximum Supply Current	DC 5 V ⎓ 1 A	

DVD/CD player			
Signal Detection System	Non-contact optical pickup (semiconductor laser)		
Frequency Response	DVD, fs=48 kHz/96 kHz	17 Hz to 20 000 Hz	
	VCD/CD	17 Hz to 20 000 Hz	
Dynamic Range	90 dB		
Signal-to-Noise Ratio	80 dB		
Wow and Flutter	Less than measurable limit		

Bluetooth*		
Technology	Bluetooth 3.0	
Frequency	2.402 GHz to 2.480 GHz	
Output Power	+4 dBm (MAX), 0 dBm (AVE), Power Class 2	
Maximum Communication Range	Line of sight approx. 10 m (32.8 ft)	
Audio Codec	SBC/AAC	
Profile	HFP (Hands Free Profile) 1.6 A2DP (Advanced Audio Distribution Profile) 1.2 AVRCP (Audio/Video Remote Control Profile) 1.4 PBAP (PhoneBook Access Profile) 1.2 SPP (Serial Port Profile) 1.2	

Monitor		
Screen Size	3 Inch wide liquid crystal display	
Number of Pixels	320 pixels x 240 pixels	
Drive Method	TFT (Thin Film Transistor) active matrix format	
Color System	PAL/NTSC	
Aspect Ratio	16:9 (wide)	

General			
Power Requirements (Operating Voltage)	DC 14.4 V (11 V to 16 V allowance)		
Grounding System	Negative ground		
Allowable Storage Temperature	−10℃ to +60℃		
Allowable Operating Temperature	0℃ to +40℃		
Dimensions (W × H × D)	Installation Size (approx.)	182 mm × 52 mm × 167 mm	
	Panel Size (approx.)	171 mm × 48 mm × 34 mm	
Weight (excluding accessories)	1.2 kg		

Subject to change without notice.

* Only for KD-AV41BT.

Installation/Connection

⚠ Warning

- The unit can only be used with a 12 V DC power supply, negative ground.
- Disconnect the battery's negative terminal before wiring and mounting.
- Do not connect Battery wire (yellow) and Ignition wire (red) to the car chassis or Ground wire (black) to prevent a short circuit.
- Insulate unconnected wires with vinyl tape to prevent a short circuit.
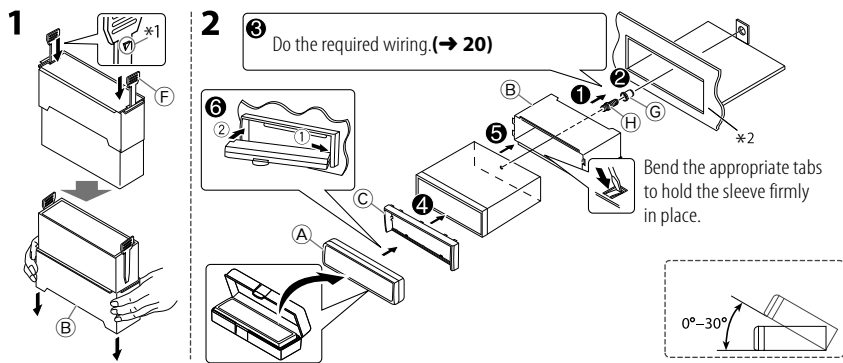- Be sure to ground this unit to the car's chassis again after installation.

⚠ Caution

- For safety's sake, leave wiring and mounting to professionals. Consult the car audio dealer.
- Install this unit in the console of your vehicle. Do not touch the metal parts of this unit during and shortly after use of the unit. Metal parts such as the heat sink and enclosure become hot.
- Do not connect the ⊖ wires of speaker to the car chassis, Ground wire (black), or in parallel.
- Mount the unit at an angle of less 30°.
- If your vehicle wiring harness does not have the ignition terminal, connect Ignition wire (red) to the terminal on the vehicle's fuse box which provides 12 V DC power supply and is turned on and off by the ignition key.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- If the fuse blows, first make sure the wires are not touching car's chassis, then replace the old fuse with one that has the same rating.

Basic procedure

1 Remove the key from the ignition switch, then disconnect the ⊖ terminal of the car battery.
2 Connect the wires properly.
   See "Wiring connection". **(➜ 20)**
3 Install the unit to your car.
   See "Installing the unit (in-dash mounting)". **(➜ right column)**
4 Connect the ⊖ terminal of the car battery.
5 Reset the unit. **(➜ 4)**

Check the supplied parts for installation beforehand. **(➜ 21)**

Installing the unit (in-dash mounting)

1

2 ③ Do the required wiring.**(➜ 20)**

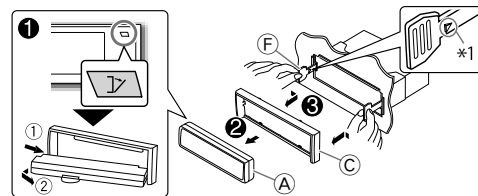Bend the appropriate tabs to hold the sleeve firmly in place.

0°–30°

When installing without the mounting sleeve

Flat head screws (supplied (①): M5 × 8 mm) or round head screws (not supplied: M5 × 6 mm)

8 mm   6 mm

Pocket
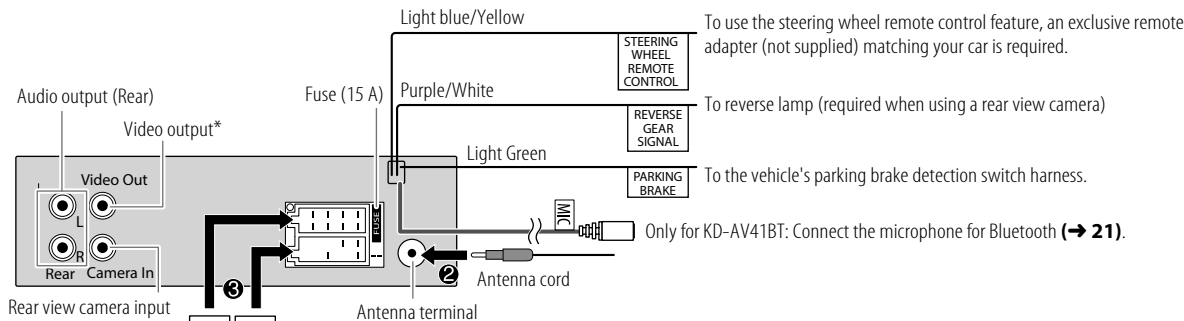
Bracket (not supplied)
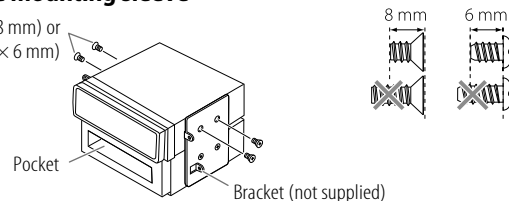
How to remove the unit

*1 Face the side with the protrusion inside when inserting the extraction keys.
*2 If the panel opening of your vehicle is too small to fit the unit, trim the upper and lower sides of the panel opening.
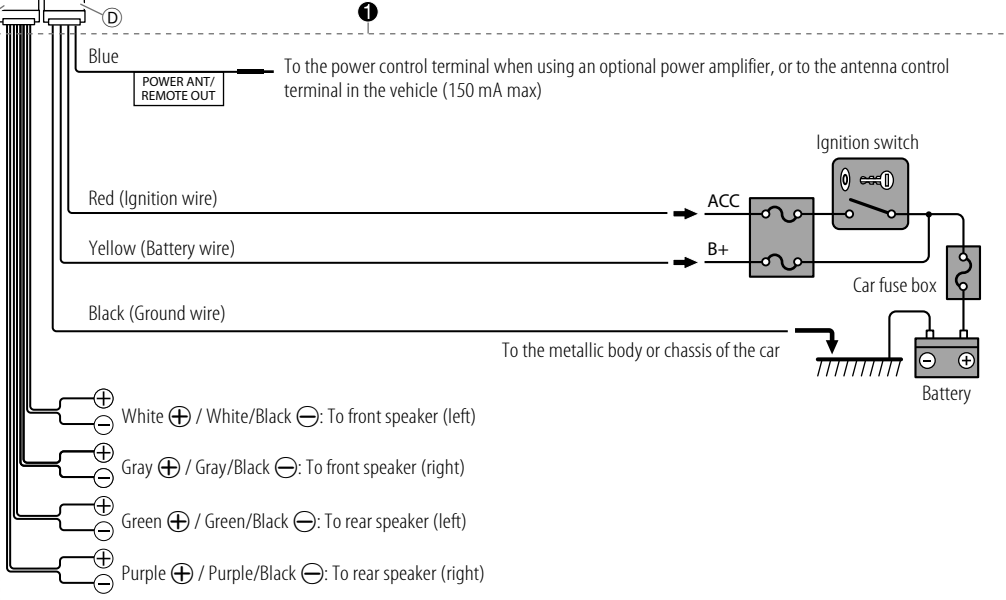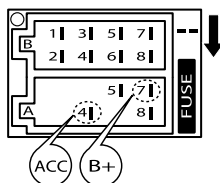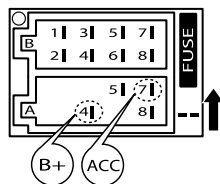
ENGLISH

Wiring connection

Light blue/Yellow

| STEERING WHEEL REMOTE CONTROL |

To use the steering wheel remote control feature, an exclusive remote adapter (not supplied) matching your car is required.

Purple/White

| REVERSE GEAR SIGNAL |

To reverse lamp (required when using a rear view camera)

Light Green

| PARKING BRAKE |

To the vehicle's parking brake detection switch harness.

Audio output (Rear)

Fuse (15 A)

Video output*

Video Out

L

R

Rear   Camera In

* Video is not output for the video output terminal when the source is **[Tuner]** or **[AUX]**.

MIC

Only for KD-AV41BT: Connect the microphone for Bluetooth **(➔ 21)**.

Antenna cord

Rear view camera input

Antenna terminal

❸   ❷

Ⓔ   Ⓓ   ❶

Blue

| POWER ANT/ REMOTE OUT |

To the power control terminal when using an optional power amplifier, or to the antenna control terminal in the vehicle (150 mA max)

Change the FUSE location to switch ACC and B+ pin location on the ISO connector.

B	1	3	5	7
	2	4	6	8
A			5	7
		4		8

FUSE

B+   ACC

B	1	3	5	7
	2	4	6	8
A			5	7
		4		8

FUSE

ACC   B+

Ignition switch

Red (Ignition wire) ➔ ACC

Yellow (Battery wire) ➔ B+

Car fuse box

Black (Ground wire)

To the metallic body or chassis of the car

Battery

White ⊕ / White/Black ⊖: To front speaker (left)

Gray ⊕ / Gray/Black ⊖: To front speaker (right)

Green ⊕ / Green/Black ⊖: To rear speaker (left)

Purple ⊕ / Purple/Black ⊖: To rear speaker (right)

Connecting microphone for Bluetooth (Only for KD-AV41BT)

Connect the microphone (Ⓙ) to the MIC terminal.
• To install the microphone, peel off the adhesive tape, fix it on the installation position, then adjust the direction of the microphone to face the driver. After installing, fix the microphone cable to the car with clamps (commercially available).
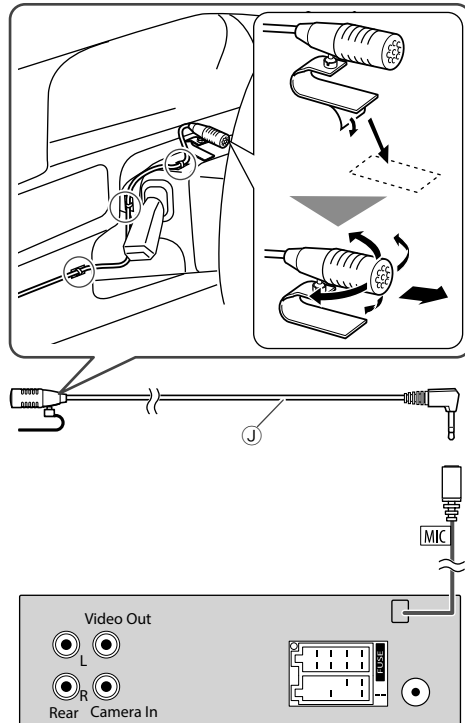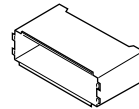

Parts list for installation
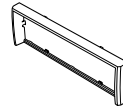
Ⓐ Faceplate/Faceplate case
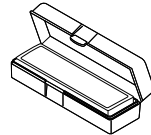
Ⓕ Extraction keys

Ⓑ Mounting sleeve

Ⓖ Rubber cushion

Ⓒ Trim plate

Ⓗ Mounting bolt
— M5 × 12 mm

Ⓓ Power cord

Ⓘ Flat head screws
— M5 × 8 mm

Ⓔ Speaker cord

Ⓙ Microphone*

* Only for KD-AV41BT.

ENGLISH