



ENGLISH
FRANÇAIS
DEUTSCH

KW-R520

CD RECEIVER

INSTRUCTION MANUAL

RÉCEPTEUR CD

MANUEL D'INSTRUCTIONS

CD-RECEIVER

BEDIENUNGSANLEITUNG

JVCKENWOOD Corporation



Pb

Information on Disposal of Old Electrical and Electronic Equipment and Batteries (applicable for countries that have adopted separate waste collection systems)

Products and batteries with the symbol (crossed-out wheeled bin) cannot be disposed as household waste.

Old electrical and electronic equipment and batteries should be recycled at a facility capable of handling these items and their waste byproducts.

Contact your local authority for details in locating a recycle facility nearest to you. Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

Notice: The sign "Pb" below the symbol for batteries indicates that this battery contains lead.

Information sur l'élimination des anciens équipements électriques et électroniques et piles électriques (applicable dans les pays qui ont adopté des systèmes de collecte sélective)

Les produits et piles électriques sur lesquels le pictogramme (poubelle barrée) est apposé ne peuvent pas être éliminés comme ordures ménagères.

Les anciens équipements électriques et électroniques et piles électriques doivent être recyclés sur des sites capables de traiter ces produits et leurs déchets.

Contactez vos autorités locales pour connaître le site de recyclage le plus proche. Un recyclage adapté et l'élimination des déchets aideront à conserver les ressources et à nous préserver des leurs effets nocifs sur notre santé et sur l'environnement.

Remarque: Le symbole "Pb" ci-dessous sur des piles électrique indique que cette pile contient du plomb.

Entsorgung von gebrauchten elektrischen und elektronischen Geräten und Batterien (anzuwenden in Ländern mit einem separaten Sammelsystem für solche Geräte)

Das Symbol (durchgestrichene Mülltonne) auf dem Produkt oder seiner Verpackung weist darauf hin, dass dieses Produkt nicht als normaler Haushaltsabfall behandelt werden darf, sondern an einer Annahmestelle für das Recycling von elektrischen und elektronischen Geräten und Batterien abgegeben werden muss.

Durch Ihren Beitrag zur korrekten Entsorgung dieses Produktes schützen Sie die Umwelt und die Gesundheit Ihrer Mitmenschen.

Unsachgemäße oder falsche Entsorgung gefährden Umwelt und Gesundheit. Weitere Informationen über das Recycling dieses Produktes erhalten Sie von Ihrer Gemeinde oder den kommunalen Entsorgungsbetrieben.

Achtung: Das Zeichen „Pb“ unter dem Symbol für Batterien zeigt an, dass diese Batterie Blei enthält.



Declaration of Conformity with regard to the EMC Directive

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

Manufacturer:

JVC KENWOOD Corporation

3-12, Moriya-cho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-0022, Japan

EU Representative:

JVC Technical Services Europe GmbH

Konrad-Adenauer-Allee 1-11, D-61118 Bad Vilbel, Germany

Déclaration de conformité se rapportant à la directive EMC

Déclaration de conformité se rapportant à la directive RoHS 2011/65/EU

Fabricant:

JVC KENWOOD Corporation

3-12, Moriya-cho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-0022, Japan

Représentants dans l'UE:

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Konformitätserklärung in Bezug auf die EMC-Vorschrift

Konformitätserklärung in Bezug auf die RoHS-Vorschrift 2011/65/EU

Hersteller:

JVC KENWOOD Corporation

3-12, Moriya-cho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-0022, Japan

EU-Vertreter:

JVC Technical Services Europe GmbH

Konrad-Adenauer-Allee 1-11, D-61118 Bad Vilbel, Germany

For Israel

מידע בדבר השלכה לאשפה של ציוד חשמלי ואלקטרוני ישן וכן סוללות (רלוונטי למדינות שמשתמשות במערכת איסוף אשפה מופרדת).

לא ניתן להשליך מוצרים וסוללות עם הסימון (פח אשפה עם X עליו) כאשפה ביתית רגילה. יש למחזר ציוד חשמלי ואלקטרוני ישן וכן סוללות במתקן המסוגל לטפל בפריטים כאלה ובתוצרי הלואי שלהם.

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

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

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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 Warning and Caution 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:

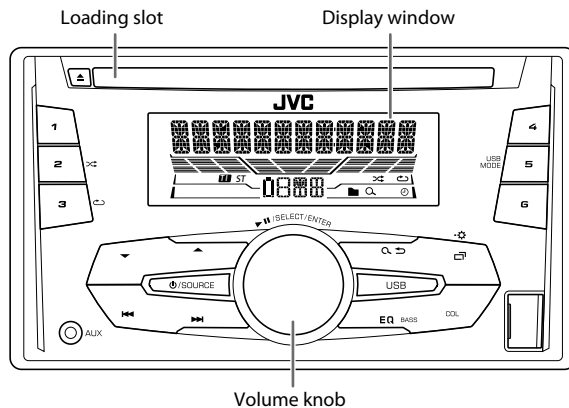
- Avoid using the external device if it might hinder safe driving.
- Make sure all important data has been backed up. We shall bear no responsibility for any loss of recorded data.
- Never put or leave any metallic objects (such as coins or metal tools) inside the unit, to prevent a short circuit.
-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

How to read this manual

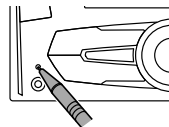
- Operations are explained mainly using buttons on the faceplate.
- English indications are used for the purpose of explanation. You can select the display language from the menu. (→ 4)
- [XX] indicates the selected items.
- (→ XX) indicates references are available on the stated page.

BASICS

Faceplate



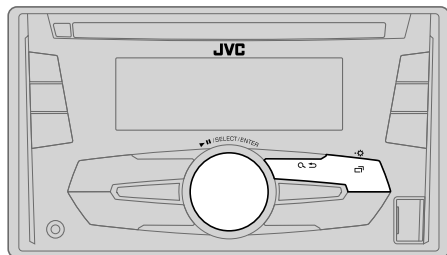
How to reset



Your preset adjustments will be erased except stored radio stations.

To	On the faceplate
Turn on the power	Press PH/SOURCE . <ul style="list-style-type: none">Press and hold to turn off the power.
Adjust the volume	Turn the volume knob. Press the volume knob to mute the sound or pause playback. <ul style="list-style-type: none">Press again to cancel.
Select a source	<ul style="list-style-type: none">Press PH/SOURCE repeatedly.Press PH/SOURCE, then turn the volume knob within 2 seconds.
Change the display information	Press EQ repeatedly. (► 13)

GETTING STARTED



1 Cancel the demonstration

When you turn on the power (or after you reset the unit), the display shows: "CANCEL DEMO" → "PRESS" → "VOLUME KNOB"

- 1 Press the volume knob.
[YES] is selected for the initial setup.
- 2 Press the volume knob again.
"DEMO OFF" appears.

2 Set the clock

- 1 Press and hold to exit.
- 2 Turn the volume knob to select [CLOCK], then press the knob.
- 3 Turn the volume knob to select [CLOCK SET], then press the knob.
- 4 Turn the volume knob to make the settings, then press the knob.
Day → Hour → Minute
- 5 Turn the volume knob to select [24H/12H], then press the knob.
- 6 Turn the volume knob to select [12 HOUR] or [24 HOUR], then press the knob.
- 7 Press to exit.

To return to the previous setting item, press .

3 Set the basic settings

- 1 Press and hold .
- 2 Turn the volume knob to select an item (see the following table), then press the knob.
- 3 Repeat step 2 until the desired item is selected or activated.
- 4 Press to exit.

To return to the previous setting item, press .

Default: **XX**

SETTINGS

BEEP ON: Activates the keypress tone. ; **OFF**: Deactivates.

SRC SELECT

AM* ON: Enables AM in source selection. ; **OFF**: Disables.

AUX* **BT ADAPTER**: Selects when the KS-BTA100 Bluetooth adapter is connected to the AUX jack. (→ 8) ; ON: Enables AUX in source selection. ; **OFF**: Disables.

F/W UPDATE

SYSTEM

F/W xxxx **YES**: Starts upgrading the firmware. ; **NO**: Cancels (upgrading is not activated).
For details on how to update the firmware, see: <<http://www.jvc.net/cs/car/>>.

CLOCK

CLOCK SYNC **AUTO**: The clock time is automatically set using the Clock Time (CT) data in FM Radio Data System signal. ; **OFF**: Cancels.

CLOCK DISP **ON**: The clock time is shown on the display even when the unit is turned off. ; **OFF**: Cancels.

ENGLISH

РУССКИЙ Select the display language for menu and music information if applicable.
By default, **ENGLISH** is selected.

ESPAÑOL

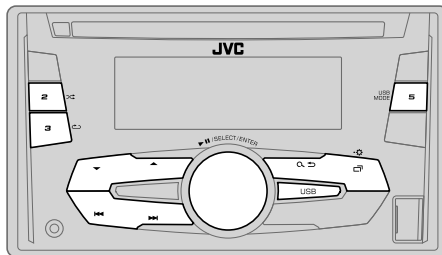
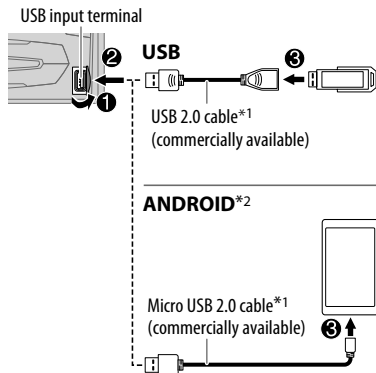
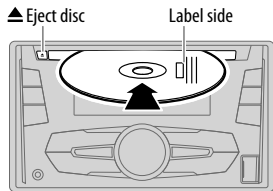
* Not displayed when the corresponding source is selected.

CD / USB / ANDROID

Start playback

The source changes automatically and playback starts.

CD



To directly select USB/ ANDROID source, press **USB**.

To	On the faceplate
Reverse / Fast-forward ^{*3}	Press and hold ◀◀ / ▶▶ .
Select a track/file	Press ◀◀ / ▶▶ .
Select a folder ^{*4}	Press ▲ / ▼ .
Repeat play ^{*3}	Press 3 repeatedly. TRACK RPT/ ALL RPT : Audio CD TRACK RPT/ FOLDER RPT/ ALL RPT : MP3/WMA/WAV/FLAC file ONE RPT/ ALL RPT/ RPT OFF : ANDROID
Random play ^{*3}	Press 2 repeatedly. ALL RND/ RND OFF : Audio CD FOLDER RND/ ALL RND/ RND OFF : MP3/WMA/WAV/FLAC file SONG RND/ ALL RND/ RND OFF : ANDROID

^{*1} Do not leave the cable inside the car when not using.

^{*2} When connecting an Android device, "Press [VIEW] to install JVC MUSIC PLAY APP" is shown. Follow the instructions to install the application. You can also install the latest version of JVC MUSIC PLAY application on your Android device before connecting. (➔ 12)

^{*3} For ANDROID: Applicable only when [AUTO MODE] is selected. (➔ 6)

^{*4} For CD: Only for MP3/WMA files. This does not work for ANDROID.

CD / USB / ANDROID

Select control mode

While in **ANDROID** source, press **5 USB MODE** repeatedly.

AUTO MODE: Control Android device from this unit via JVC MUSIC PLAY application installed in the Android device.

AUDIO MODE: Control Android device using the Android device itself via other media player applications installed in the Android device. However, you can still play/pause or file skip from this unit.

Select music drive

Press **5 USB MODE** repeatedly.

Stored songs in the following drive will be played back.

- Selected internal or external memory of a smartphone (Mass Storage Class).
- Selected drive of a multiple drives device.

Select a file from a folder/list

- 1 Press **Q**.
- 2 Turn the volume knob to select a folder/list, then press the knob.
- 3 Turn the volume knob to select a file, then press the knob.

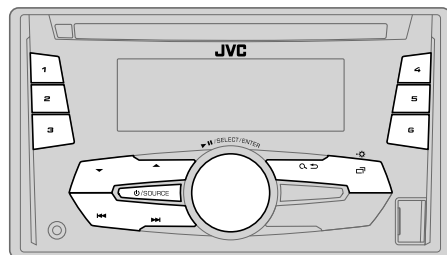
Quick Search

If you have many files, you can search through them quickly.

Turn the volume knob quickly to browse through the list quickly.

- To return to the previous setting item, press **Q**.
- To cancel, press and hold **Q**.
- For **ANDROID**, applicable only when [**AUTO MODE**] is selected.

RADIO



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

Search for a station

- 1 Press **Q**/SOURCE repeatedly to select FM or AM.
- 2 Press **◀** / **▶** to search for a station automatically.
(or)
Press and hold **◀** / **▶** until "M" flashes, then press repeatedly to search for a station manually.

Settings in memory

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

Store a station

While listening to a station....

Press and hold one of the number buttons (**1** to **6**).

- (or)
- 1 Press and hold the volume knob until "PRESET MODE" flashes.
 - 2 Turn the volume knob to select a preset number, then press the knob.
The preset number flashes and "MEMORY" appears.

RADIO

Select a stored station

Press ▲/▼ or one of the number buttons (1 to 6).

(or)

- 1 Press .
- 2 Turn the volume knob to select a preset number, then press the knob to confirm.

Other settings

- 1 Press and hold .
- 2 Turn the volume knob to select [TUNER], then press the knob.
- 3 Turn the volume knob to select an item (see the following table), then press the knob.
- 4 Repeat step 3 until the desired item is selected/activated or follow the instructions stated on the selected item.
- 5 Press to exit.

To return to the previous setting item, press .

Default: **XX**

RADIO TIMER	<p>Turns on the radio at a specific time regardless of the current source.</p> <ol style="list-style-type: none"> 1 ONCE/ DAILY/ WEEKLY/ OFF: Select how often the timer will be turned on. 2 FM/ AM: Select the band. 3 01 to 18 (for FM)/ 01 to 06 (for AM): Select the preset station. 4 Set the activation day*1 and time. <p> lights up when complete.</p> <p>Radio Timer will not activate for the following cases.</p> <ul style="list-style-type: none"> • The unit is turned off. • [OFF] is selected for [AM] in [SRC SELECT] after Radio Timer for AM is selected. (➡ 4)
SSM	<p>SSM 01 – 06 / SSM 07 – 12 / SSM 13 – 18: Automatically presets up to 18 stations for FM. "SSM" stops flashing when the first 6 stations are stored. Select SSM 07 – 12 / SSM 13 – 18 to store the following 12 stations.</p>

LOCAL SEEK	<p>ON: Searches only FM stations with good reception. ; OFF: Cancels.</p> <ul style="list-style-type: none"> • Settings made are applicable only to the selected source/station. Once you change the source/station, you need to make the settings again.
IF BAND	<p>AUTO: Increases the tuner selectivity to reduce interference noises from adjacent FM stations. (Stereo effect may be lost.) ; WIDE: Subjects to interference noises from adjacent FM stations, but sound quality will not be degraded and the stereo effect will remain.</p>
MONO	<p>ON: Improves the FM reception, but the stereo effect will be lost. ; OFF: Cancels.</p>
NEWS-STBY*2	<p>ON: The unit will temporarily switch to News Programme if available. ; OFF: Cancels.</p>
REGIONAL*2	<p>ON: Switches to another station only in the specific region using the "AF" control. ; OFF: Cancels.</p>
AF SET*2	<p>ON: Automatically searches for another station broadcasting the same program in the same Radio Data System network with better reception when the current reception is poor. ; OFF: Cancels.</p>
TI SET*2	<p>ON: Allows the unit to temporarily switch to Traffic Information if available ("TI" lights up). ; OFF: Cancels.</p>
PTY SEARCH*2	<p>Select a PTY code (see below). If there is a station broadcasting a program of the same PTY code as you have selected, that station is tuned in.</p>

PTY code: NEWS, AFFAIRS, INFO, SPORT, EDUCATE, DRAMA, CULTURE, SCIENCE, VARIED, POP M (music), ROCK M (music), EASY M (music), LIGHT M (music), CLASSICS, OTHER M (music), WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ, COUNTRY, NATION M (music), OLDIES, FOLK M (music), DOCUMENT

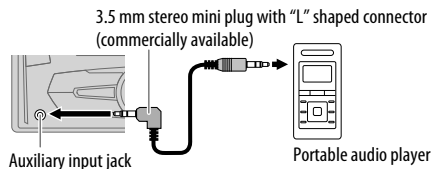
*1 Selectable only when [ONCE] or [WEEKLY] is selected in step 1.

*2 Only for FM source.

AUX

Use a portable audio player

- 1 Connect a portable audio player (commercially available).



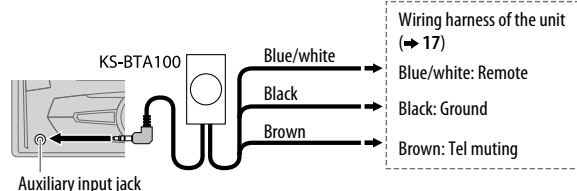
- 2 Select [ON] for [AUX] in [SRC SELECT]. (→ 4)
- 3 Press **Q** / **SOURCE** repeatedly to select AUX.
- 4 Turn on the portable audio player and start playback.



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

Use a Bluetooth® device

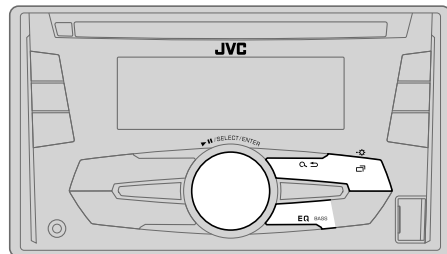
- 1 Connect the Bluetooth adapter, KS-BTA100 (separately purchased).



- 2 Register (pair) the Bluetooth device with KS-BTA100.
- 3 Select [BT ADAPTER] for [AUX] in [SRC SELECT]. (→ 4)
- 4 Press **Q** / **SOURCE** repeatedly to select BT AUDIO.
- 5 Start using the Bluetooth device.

For details, refer to the instruction manual of KS-BTA100.

AUDIO SETTINGS



Select a preset equalizer

Press **EQ BASS** repeatedly.

(or)

Press **EQ BASS**, then turn the volume knob within 5 seconds.



Preset equalizer: FLAT (default), HARD ROCK, HIP HOP, JAZZ, POP, R&B, TALK, USER, VOCAL BOOST, BASS BOOST, CLASSICAL, DANCE


Store your own sound settings

- 1 Press and hold **EQ BASS** to enter EASY EQ setting.
 - 2 Turn the volume knob to select an item, then press the knob. Refer to [EASY EQ] for setting (→ 9) and the result is stored to [USER].
- To return to the previous setting item, press **Q** ↶.
 - To exit, press **EQ BASS**.

AUDIO SETTINGS

Other settings

- 1 Press and hold .
- 2 Turn the volume knob to select an item (see the following table), then press the knob.
- 3 Repeat step 2 until the desired item is selected/activated or follow the instructions stated on the selected item.
- 4 Press  to exit.

To return to the previous setting item, press .

Default: XX

EQ SETTING

EQ PRESET Select a preset equalizer suitable to the music genre. (Select [USER] to use the settings made in [EASY EQ].)
FLAT (default) / **HARD ROCK** / **HIP HOP** / **JAZZ** / **POP** / **R&B** / **TALK** / **USER** / **VOCAL BOOST** / **BASS BOOST** / **CLASSICAL** / **DANCE**

EASY EQ Adjust your own sound settings. The settings are stored to [USER].

SUB.W SP*1*2: 00 to +06 (Default: 03)
SUB.W*1*3: -08 to +08 00
BASS LVL: -06 to +06 00
MID LVL: -06 to +06 00
TRE LVL: -06 to +06 00

- PRO EQ**
- 1 **BASS / MIDDLE / TREBLE**: Select a sound tone.
 - 2 Adjust the sound elements of the selected sound tone.

BASS Frequency: 60/ 80/ 100/ 200 HZ (Default: 80 HZ)
 Level: -06 to +06 00
 Q: Q1.0/ Q1.25/ Q1.5/ Q2.0 Q1.0

MIDDLE Frequency: 0.5/ 1.0/ 1.5/ 2.5 KHZ (Default: 1.0 KHZ)
 Level: -06 to +06 00
 Q: Q0.75/ Q1.0/ Q1.25 Q1.25

TREBLE Frequency: 10.0/ 12.5/ 15.0/ 17.5 KHZ (Default: 10.0 KHZ)
 Level: -06 to +06 00
 Q: Q FIX Q FIX

AUDIO

BASS BOOST +01 — +05 (+01): Selects your preferred bass boost level.;
OFF: Cancels.

LOUD 01 / 02: Boosts low or high frequencies to produce a well-balanced sound at low volume.; **OFF**: Cancels.

SUB.W LEVEL*1 **SPK-OUT***2 00 to +06 (+03): Adjusts the output level of the subwoofer connected via speaker lead. (➡ 17)

PRE-OUT*3 -08 to +08 (00): Adjusts the output level of the subwoofer connected to the lineout terminals (REAR/ SW) through an external amplifier. (➡ 17)

SUB.W*3 **ON / OFF**: Turns on or off the subwoofer output.

SUB.W LPF*1 **THROUGH**: All signals are sent to the subwoofer.; **LOW 55HZ** / **MID 85HZ** / **HIGH 120HZ**: Audio signals with frequencies lower than 55 Hz/ 85 Hz/ 120 Hz are sent to the subwoofer.

SUB.W PHASE*1 **REVERSE** (180°) / **NORMAL** (0°): Selects the phase of the subwoofer output to be in line with the speaker output for optimum performance. (Selectable only if a setting other than [THROUGH] is selected for [SUB.W LPF].)

FADER R06 — F06 (00): Adjusts the front and rear speaker output balance.

BALANCE*4 L06 — R06 (00): Adjusts the left and right speaker output balance.

VOL ADJUST -15 — +06 (00): Preset the initial volume level of each source (compared to the FM volume level). Before adjustment, select the source you want to adjust. ("VOL ADJ FIX" appears if FM is selected.)

*1 Displayed only when [SUB.W] is set to [ON].

*2 Displayed only when [SPK/PRE OUT] is set to [SUB.W/SUB.W]. (➡ 10)

*3 Displayed only when [SPK/PRE OUT] is set to [REAR/SUB.W] or [SUB.W/SUB.W]. (➡ 10)

*4 This adjustment will not affect the subwoofer output.

AUDIO SETTINGS

AMP GAIN	LOW POWER: Limits the maximum volume level to 25. (Select if the maximum power of each speaker is less than 50 W to prevent damaging the speakers.) ; HIGH POWER: The maximum volume level is 35.
D.T.EXP (Digital Track Expander)	ON: Creates realistic sound by compensating the high-frequency components and restoring the rise-time of the waveform that are lost in audio data compression. ; OFF: Cancels.
TEL MUTING ^{*5}	ON: Mutes the sounds while using the cellular phone (not connected through KS-BTA100). ; OFF: Cancels.
SPK/PRE OUT	Depending on the speaker connection method, select the appropriate setting to get the desired output. (➡ Speaker output settings)

^{*5} Does not work if [BT ADAPTER] is selected for [AUX] in [SRC SELECT]. (➡ 4)

Speaker output settings

Select the output setting for the speakers [SPK/PRE OUT], base on the speaker connection method.

Connection via lineout terminals

For connections through an external amplifier. (➡ 17)

Setting on [SPK/PRE OUT]	Audio signal through lineout terminal
	REAR/SW
REAR/REAR	Rear speakers output
REAR/SUB.W	Subwoofer output
SUB.W/SUB.W	Subwoofer output

Connection via speaker leads

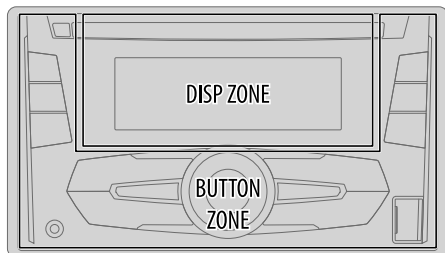
For connections without using an external amplifier. However, with this settings you can also enjoy the subwoofer output. (➡ 17)

Setting on [SPK/PRE OUT]	Audio signal through rear speaker lead	
	L (left)	R (right)
REAR/REAR	Rear speakers output	Rear speakers output
REAR/SUB.W	Rear speakers output	Rear speakers output
SUB.W/SUB.W	Subwoofer output	(Mute)

If [SUB.W/SUB.W] is selected:

- [HIGH 120HZ] is selected in [SUB.W LPF] and [THROUGH] is not available.
- [R01] is selected in [FADER] and selectable range is [R06] to [00].

DISPLAY SETTINGS



- 1 Press and hold . Press **COL** to enter [COLOR] directly.
- 2 Turn the volume knob to select an item (see the following table), then press the knob.
- 3 Repeat step 2 until the desired item is selected/activated or follow the instructions stated on the selected item.
- 4 Press to exit.

To return to the previous setting item, press .

Default: **XX**

DISPLAY

DIMMER	<p>Dim the display and button illuminations.</p> <p>OFF: Dimmer is turned off.</p> <p>ON: Dimmer is turned on. Brightness changes to [NIGHT] setting. (→ [BRIGHTNESS])</p> <p>DIMMER TIME: Set the dimmer on and off time.</p> <ol style="list-style-type: none"> 1 Turn the volume knob to adjust the [ON] time, then press the knob. 2 Turn the volume knob to adjust the [OFF] time, then press the knob. <p>(Default: [ON]: 18:00 or 6:00 PM [OFF]: 6:00 or 6:00 AM)</p> <p>AUTO: Dimmer turns on and off automatically when you turn off or on the car headlights.*1</p>
---------------	---

BRIGHTNESS	<p>Set the button, display and USB input terminal brightness for day and night separately.</p> <ol style="list-style-type: none"> 1 DAY / NIGHT: Select day or night. 2 Select a zone. (→ Illustration on left column) 3 Set the brightness level (00 to 31). (Default: BUTTON ZONE: DAY: 25 ; NIGHT: 09 DISP ZONE: DAY: 31 ; NIGHT: 12)
SCROLL *2	<p>ONCE: Scrolls the display information once. ; AUTO: Repeats scrolling at 5-second intervals. ; OFF: Cancels.</p>
COLOR	
PRESET	<p>Select a color for the button illumination.</p> <ul style="list-style-type: none"> • COLOR 01 to COLOR 49 [COLOR 08] • USER: The color you have created for [DAY COLOR] or [NIGHT COLOR] is shown. • COLOR FLOW01 to COLOR FLOW03: Color changes at different speeds.
DAY COLOR	<p>Make your own day and night colors for the button illumination.</p> <ol style="list-style-type: none"> 1 RED / GREEN / BLUE: Select a primary color. 2 00 to 31: Select the level.
NIGHT COLOR	<p>Repeat steps 1 and 2 for all primary colors.</p> <ul style="list-style-type: none"> • Your setting is stored to [USER] in [PRESET].
MENU COLOR	<p>ON: Changes the button illumination in menu mode or when selecting a music file from a folder/list. ; OFF: Cancels.</p>

[NIGHT COLOR] or [DAY COLOR] is changed by turning on or off your car's headlights.

*1 The illumination control wire connection is required. (→ 17)

*2 Some characters or symbols will not be shown correctly (or will be blanked).

REFERENCES

■ Maintenance

Cleaning the unit

Wipe off dirt on the faceplate with a dry silicone or soft cloth.

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 silicone 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.

■ More information

Visit also the following website <<http://www.jvc.net/cs/car/>> for:

- Latest firmware updates and latest compatible item list
- Android™ application JVC MUSIC PLAY
- Any other latest information

About discs and audio files

- This unit can only play the following CDs:



- This unit can play back multi-session discs; however, unclosed sessions will be skipped during playback.
- **Unplayable discs:**
 - 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.
 - 8 cm CD. 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 Non-DVD side of a DualDisc on this product cannot be recommended.

• Playable files:

- File extensions: MP3 (.mp3), WMA (.wma)
- Bit rate: MP3: 8 kbps — 320 kbps
WMA: 32 kbps — 192 kbps
- Sampling frequency:
MP3: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz, 12 kHz, 11.025 kHz, 8 kHz
WMA: 8 kHz — 48 kHz
- Variable bit rate (VBR) files.

• Maximum number of characters for file/folder name:

- It depends on the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
- ISO 9660 Level 1 and 2: 32 characters
- Romeo: 32 characters
- Joliet: 32 characters
- Windows long file name: 32 characters

About USB devices


- This unit can play MP3/WMA/WAV/FLAC files stored on a USB mass storage class device.
- You cannot connect a USB device via a USB hub.
- Connecting a cable whose total length is longer than 5 m may result in abnormal playback.
- The maximum number of characters for:
 - Folder names: 64 characters
 - File names: 64 characters
 - MP3 Tag: 64 characters
 - WMA Tag: 64 characters
 - WAV Tag: 64 characters
 - FLAC Tag: 64 characters
- This unit can recognize a total of 15 000 files, 500 folders (999 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 Android device

- This unit supports Android OS 4.1 and above.
- Some Android devices (with OS 4.1 and above) may not fully support Android Open Accessory (AOA) 2.0.
- If the Android device supports both mass storage class device and AOA 2.0, this unit always playback via AOA 2.0 as priority.

REFERENCES

Change the display information

Each time you press , the display information changes.

- If the information is unavailable or not recorded, "NO TEXT", "NO NAME", or other information (eg. station name) appears.



FM or AM	Frequency ↔ Day/Clock
	(For FM Radio Data System stations only) Station name (PS) → Frequency → Program type (PTY) → Radio text+ → Day/Clock → (back to the beginning)
CD or USB	(For CD-DA) Playing time → Day/Clock → Disc name → Track title → (back to the beginning)
	(For MP3/WMA/WAV/FLAC files) Playing time → Day/Clock → Album title/Artist → Track title → Folder/file name → (back to the beginning)
ANDROID	Playing time → Day/Clock → Album title/Artist → Track title → (back to the beginning)
AUX	AUX ↔ Day/Clock
BT AUDIO	BT AUDIO ↔ Day/Clock

Available Cyrillic letters

- ☒ Available characters
☐ Display indications

А	Б	В	Г	Д	Е	Ж	З	И	Й	К	Л	М	Н	О	П	Р
А	Б	В	Г	Д	Е	Ж	З	И	Й	К	Л	М	Н	О	П	Р
С	Т	У	Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы	Ь	Э	Ю	Я	Ё	
С	Т	У	Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы	Ь	Э	Ю	Я	Ё	

TROUBLESHOOTING

Symptom	Remedy
General	Sound cannot be heard. <ul style="list-style-type: none"> Adjust the volume to the optimum level. Check the cords and connections.
	"MISWIRING CHECK WIRING THEN PWR ON" appears. <ul style="list-style-type: none"> Turn the power off, then check to be sure the terminals of the speaker wires are insulated properly. Turn the power on again.
	"PROTECTING SEND SERVICE" appears. <ul style="list-style-type: none"> Send the unit to the nearest service center.
Radio	Source cannot be selected. <ul style="list-style-type: none"> Check the [SRC SELECT] setting. (→ 4)
	<ul style="list-style-type: none"> Radio reception is poor. Static noise while listening to the radio. Connect the antenna firmly.
	Disc cannot be ejected. <ul style="list-style-type: none"> Press and hold  to forcibly eject the disc. Be careful not to drop the disc when it is ejected.
CD / USB	"IN DISC" appears. <ul style="list-style-type: none"> Make sure nothing is blocking the loading slot when you eject the disc.
	"PLEASE" and "EJECT" appear alternately. <ul style="list-style-type: none"> Press , then insert the disc correctly.
	Playback order is not as intended. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> This depends on the recording process earlier.
	"NOT SUPPORT" appears and track skips. <ul style="list-style-type: none"> Check whether the track is a playable format. (→ 12)
	"READING" keeps flashing. <ul style="list-style-type: none"> Do not use too many hierarchical levels and folders. Reload the disc or reattach the USB device.

TROUBLESHOOTING

Symptom	Remedy
CD / USB	<p>"CANNOT PLAY" flashes and/or connected device cannot be detected.</p> <ul style="list-style-type: none"> Check whether the connected device is compatible with this unit and ensure the files are in supported formats. (➡ 12) Reattach the device.
	<p>Correct characters are not displayed.</p> <p>This unit can only display uppercase letters, numbers, and a limited number of symbols.</p>
ANDROID	<ul style="list-style-type: none"> Sound cannot be heard during playback. Sound output only from the Android device. <ul style="list-style-type: none"> Reconnect the Android device. If in [AUDIO MODE], launch any media player application on the Android device and start playback. If in [AUDIO MODE], relaunch the current media player application or use another media player application. Restart the Android device. If this does not solve the problem, the connected Android device is unable to route the audio signal to unit. (➡ 12)
	<p>Cannot playback at [AUTO MODE].</p> <ul style="list-style-type: none"> Make sure JVC MUSIC PLAY APP is installed on the Android device. (➡ 5) Reconnect the Android device and select the appropriate control mode. (➡ 6) If this does not solve the problem, the connected Android device does not support [AUTO MODE]. (➡ 12)
	<p>"NO DEVICE" or "READING" keeps flashing.</p> <ul style="list-style-type: none"> Switch off the developer options on the Android device. Reconnect the Android device. If this does not solve the problem, the connected Android device does not support [AUTO MODE]. (➡ 12)
	<p>Playback is intermittent or sound skips.</p> <p>Turn off the power saving mode on the Android device.</p>
	<p>"CANNOT PLAY"</p> <ul style="list-style-type: none"> Make sure Android device contains playable audio files. Reconnect the Android device. Restart the Android device.

If you still have troubles, reset the unit. (➡ 3)

SPECIFICATIONS

Tuner	FM	Frequency Range	87.5 MHz — 108.0 MHz (50 kHz step)
		Usable Sensitivity (S/N = 26 dB)	0.71 μ V/75 Ω
		Quieting Sensitivity (DIN S/N = 46 dB)	2.0 μ V/75 Ω
		Frequency Response (± 3 dB)	30 Hz — 15 kHz
		Signal-to-Noise Ratio (MONO)	64 dB
		Stereo Separation (1 kHz)	40 dB
CD player	MW	Frequency Range	531 kHz — 1 611 kHz (9 kHz step)
		Usable Sensitivity (S/N = 20 dB)	28.2 μ V
	LW	Frequency Range	153 kHz — 279 kHz (9 kHz step)
		Usable Sensitivity (S/N = 20 dB)	50 μ V
CD player		Laser Diode	GaAlAs
		Digital Filter (D/A)	8 times over sampling
		Spindle Speed	500 rpm — 200 rpm (CLV)
		Wow & Flutter	Below measurable limit
		Frequency Response (± 1 dB)	20 Hz — 20 kHz
		Total Harmonic Distortion (1 kHz)	0.01 %
		Signal-to-Noise Ratio (1 kHz)	105 dB
		Dynamic Range	90 dB
		Channel Separation	85 dB
		MP3 Decode	Compliant with MPEG-1/2 Audio Layer-3
		WMA Decode	Compliant with Windows Media Audio

SPECIFICATIONS

USB	USB Standard	USB 1.1, USB 2.0 (Full speed)
	Compatible Devices	Mass storage class
	File System	FAT12/ 16/ 32
	Maximum Supply Current	DC 5 V \pm 1 A
	MP3 Decode	Compliant with MPEG-1/2 Audio Layer-3
	WMA Decode	Compliant with Windows Media Audio
	WAV Decode	Linear-PCM
Auxiliary	FLAC Decode	FLAC files
	Frequency Response (± 3 dB)	20 Hz — 20 kHz
	Input Maximum Voltage	1 000 mV
Audio	Input Impedance	30 k Ω
	Maximum Output Power	50 W \times 4 or 50 W \times 2 + 50 W \times 1 (Subwoofer = 4 Ω)
	Full Bandwidth Power (at less than 1 % THD)	22 W \times 4
	Speaker Impedance	4 Ω — 8 Ω
	Preout Level/Load (CD/USB)	2 500 mV/10 k Ω
Audio	Preout Impedance	\leq 600 Ω

General	Operating Voltage (10.5 V — 16 V allowable)	14.4 V
	Maximum Current Consumption	10 A
	Operating Temperature Range	–10°C — +60°C
	Installation Size (W \times H \times D)	182 mm \times 112 mm \times 158 mm
	Weight	1.6 kg

Subject to change without notice.

▲ 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

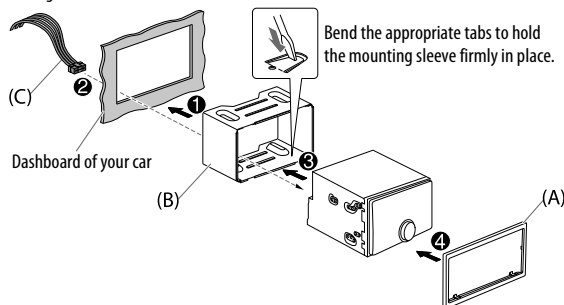
- For safety's sake, leave wiring and mounting to professionals. Consult the car audio dealer.
- Install this unit in the console of your vehicle. Do not touch the metal parts of this unit during and shortly after use of the unit. Metal parts such as the heat sink and enclosure become hot.
- Do not connect the \ominus wires of speakers to the car chassis or Ground wire (black), or connect them in parallel.
- Connect speakers with a maximum power of more than 50 W. If the maximum power of the speakers is lower than 50 W, change the [AMP GAIN] setting to avoid damaging the speakers. (➔ 10)
- Mount the unit at an angle of less than 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.
- Keep all cables away from heat dissipate metal parts.
- 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 \ominus terminal of the car battery.
- 2 Connect the wires properly.
See Wiring connection. (➔ 17)
- 3 Install the unit to your car.
See Installing the unit (in-dash mounting).
- 4 Connect the \ominus terminal of the car battery.
- 5 Reset the unit. (➔ 3)

Installing the unit (in-dash mounting)

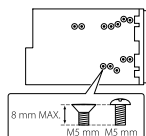
Do the required wiring.
(➔ 17)



When installing without the mounting sleeve

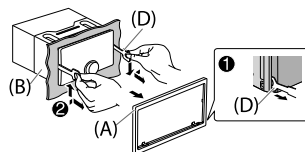
- 1 Remove the mounting sleeve and trim plate from the unit.
- 2 Align the holes in the unit (on both sides) with the vehicle mounting bracket and secure the unit with screws (supplied).

▲ Use only the specified screws. Using wrong screws might damage the unit.

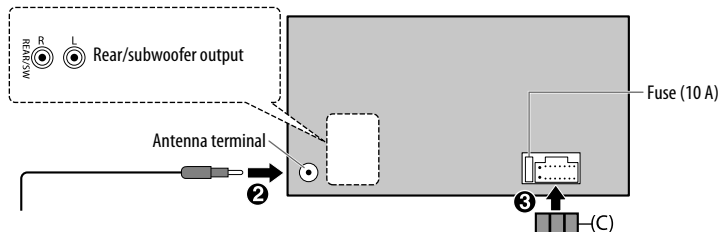


How to remove the unit

- 1 Fit the catch pin on the extraction keys into the holes on both sides of the trim plate, then pull it out.
- 2 Insert the extraction keys deeply into the slots on each side, then follow the arrows as shown below.

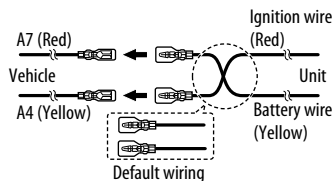


Wiring connection



Connecting the ISO connectors on some VW/Audi or Opel (Vauxhall) automobiles

You may need to modify the wiring of the supplied wiring harness as illustrated below.



* You can also connect a subwoofer speaker directly without an external subwoofer amplifier. For setting, ➔ 10.

If your car does not have an ISO terminal

We recommend installing the unit with a commercially available custom wiring harness specific for your car and leave this job to professionals for your safety. Consult your car audio dealer.

When connecting to an external amplifier, connect its ground wire to the car's chassis to avoid damaging the unit.

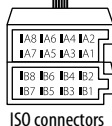
If no connections are made, do not let the wire come out from the tab.

Light blue/yellow

(Steering remote control wire)

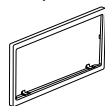
To the steering wheel remote control adapter

Pin	Color and function	
A2	Brown	: Mobile phone system
A4	Yellow	: Battery
A5	Blue/White	: Power control
A6	Orange/white	: Car light control switch
A7	Red	: Ignition (ACC)
A8	Black	: Earth (ground) connection
B1	Purple ⊕	: Rear speaker (right)
B2	Purple/black ⊖	
B3	Gray ⊕	: Front speaker (right)
B4	Gray/black ⊖	
B5	White ⊕	: Front speaker (left)
B6	White/black ⊖	
B7	Green ⊕	: Rear speaker (left)*
B8	Green/black ⊖	



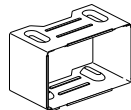
Part list for installation

(A) Trim plate



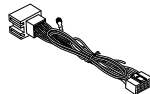
(×1)

(B) Mounting sleeve



(×1)

(C) Wiring harness



(×1)

(D) Extraction key



(×2)

(E) Flat head screw (M5 × 8 mm)



(×8)

(F) Round head screw (M5 × 8 mm)



(×8)