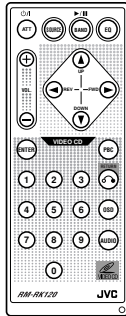
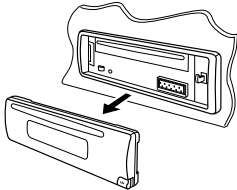


# JVC

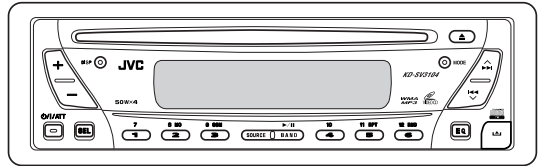


## VCD/CD RECEIVER

# KD-SV3104



WMA  
MP3



For canceling the display demonstration, see page 9.

For installation and connections, refer to the separate manual.

# INSTRUCTIONS

GET0304-001B  
[U]

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 invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

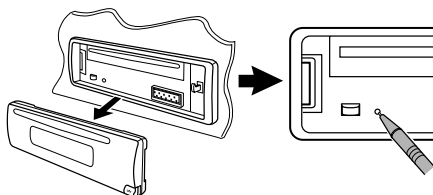
<b>CAUTION:</b> Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	<b>ADVARSEL:</b> Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling. (d)	<b>VARNING:</b> Synlig och osynlig laserstråling när den öppnas och spårren är urkopplad. Beträkta ej strålen. (s)	<b>VARO:</b> Avarhassa ja suojalukitus ohitettuna tai viallisena olet alittuna näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan iiseesi. (f)
--	---	--	---

### WARNING:

- **DO NOT** install any unit in locations where;
  - it may obstruct the steering wheel and gearshift lever operations, as this may result in a traffic accident.
  - it may obstruct the operation of safety devices such as air bags, as this may result in a fatal accident.
  - it may obstruct visibility.
- **DO NOT** operate any unit while manipulating the steering wheel, as this may result in a traffic accident.
- The driver must not watch the monitor while driving.

If the driver watches the monitor while driving, it may lead to carelessness and cause an accident.
- If you need to operate the unit while driving, be sure to look ahead carefully or you may be involved in a traffic accident.
- If the parking brake is not engaged, “PARKING” flashes on the display, and no playback picture will be shown on the monitor.
  - This warning appears only when the parking brake wire is connected to the parking brake system built in the car (refer to the Installation/ Connection Manual).

### How to reset your unit



*This will reset the microcomputer. Your preset adjustments will also be erased.*

### How to forcibly eject a disc

If a disc cannot be recognized by the unit or cannot be ejected, ejects the disc as follows.



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

# Contents

How to reset your unit .....	2	<b>Sound adjustments .....</b>	<b>21</b>
How to forcibly eject a disc .....	2	<b>Selecting preset sound modes</b>	
How to read this manual .....	4	<b>(C-EQ: custom equalizer) .....</b>	<b>21</b>
How to use the MODE button .....	4	Adjusting the sound .....	22
<b>Control panel — KD-SV3104 .....</b>	<b>5</b>	<b>General settings — PSM .....</b>	<b>23</b>
Parts identification .....	5	Basic procedure .....	23
<b>Remote controller — RM-RK120 ...</b>	<b>6</b>	<b>Detaching the control panel....</b>	<b>25</b>
Main elements and features .....	7	<b>External component</b>	
<b>Getting started .....</b>	<b>8</b>	<b>operations.....</b>	<b>26</b>
<b>Basic operations .....</b>	<b>8</b>	<b>Playing an external component .....</b>	<b>26</b>
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Setting the clock .....	9	<b>More about this unit.....</b>	<b>28</b>
<b>Radio operations .....</b>	<b>10</b>	<b>Troubleshooting .....</b>	<b>30</b>
<b>Listening to the radio.....</b>	<b>10</b>	<b>Specifications .....</b>	<b>33</b>
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<b>Playing a disc in the unit .....</b>	<b>13</b>		
<b>Playing a disc in the CD changer .....</b>	<b>15</b>		
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On-Screen (OSD) information.....	18		
Selecting the audio channel .....	18		
MP3/WMA control screen operations ...	18		
Changing the display information .....	19		
Selecting the playback modes.....	20		

## 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.


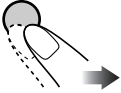
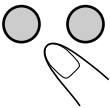
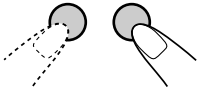
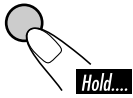
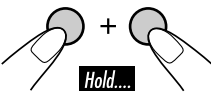
## Temperature inside the car....

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 read this manual

The following methods are used to make the explanations simple and easy-to-understand:

- Some related tips and notes are explained in “More about this unit” (see pages 28 and 29).
- Button operations are mainly explained with the illustrations as follows:

	Press briefly.
	Press repeatedly.
	Press either one.
	
	Press and hold until your desired response begins.
	Press and hold both buttons at the same time.

The following marks are used to indicate...



: Built-in VCD/CD player operations.



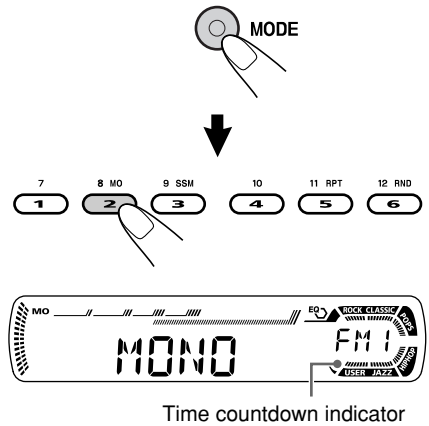
: External CD changer operations.

## How to use the MODE button

If you press MODE, the unit goes into functions mode, then the number buttons and

▲▶▶/◀◀▼ buttons work as different function buttons.

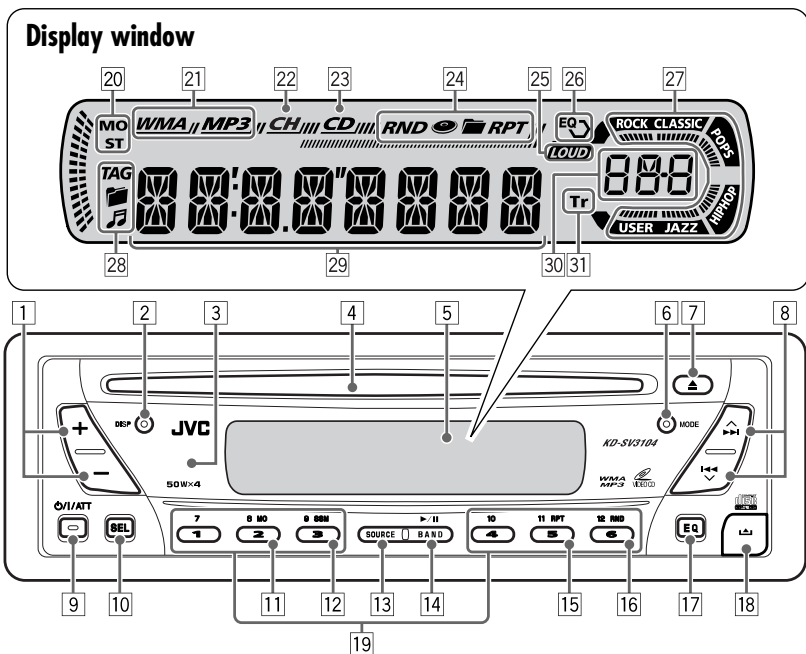
Ex.: When number button 2 works as MO (monaural) button.



To use these buttons for original functions again after pressing MODE, wait for 5 seconds without pressing any of these buttons until the functions mode is cleared.

- Pressing MODE again also clears the functions mode.

## Parts identification



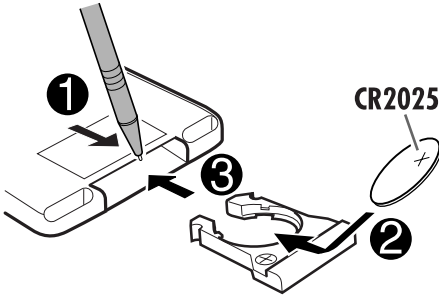
- 1 +/- buttons
- 2 DISP (display) button
- 3 Remote sensor
- 4 Loading slot
- 5 Display window
- 6 MODE button
- 7 ▲ (eject) button
- 8 ▲ ►►/|◀◀ ▼ buttons
- 9 ⏻/⏻/ATT (standby/on/attenuator) button
- 10 SEL (select) button
- 11 MO (monaural) button
- 12 SSM (Strong-station Sequential Memory) button
- 13 SOURCE button
- 14 • BAND button
- 15 ►/|| (play/pause) button
- 16 RPT (repeat) button
- 17 RND (random) button
- 18 EQ (equalizer) button
- 19 ◀ (control panel release) button
- 20 Number buttons

### Display window

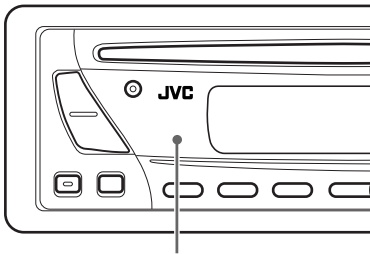
- 20 Tuner reception indicators—  
MO (monaural), ST (stereo)
- 21 Disc type indicators—WMA, MP3
- 22 CH (CD changer) indicator
- 23 CD indicator
- 24 Playback mode / item indicators—  
RND (random), (disc), (folder),  
RPT (repeat)
- 25 LOUD (loudness) indicator
- 26 EQ (equalizer) indicator
- 27 Sound mode (C-EQ: custom equalizer)  
indicators—ROCK, CLASSIC, POPS,  
HIP HOP, JAZZ, USER  
• *also works as the time countdown  
indicator.*
- 28 Disc information indicators—  
TAG (ID3 Tag), (folder), (track/file)
- 29 Main display
- 30 Source display / Volume level indicator
- 31 Tr (track) indicator

# Remote controller — RM-RK120

## ■ Installing the lithium coin battery (CR2025)



- Aim the remote controller directly at the remote sensor on the unit. Make sure there is no obstacle in between.



Remote sensor

- DO NOT expose the remote sensor to strong light (direct sunlight or artificial lighting).

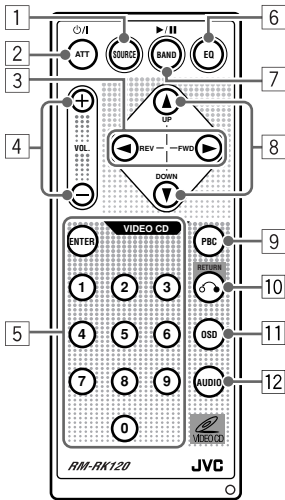
### Caution:

- Do not leave the remote controller in a place (such as dashboard) exposed to direct sunlight for a long time.

### Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid risk of accident.
- To prevent the battery from over-heating, cracking, or starting a fire:
  - Do not recharge, short, disassemble, or 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.

## Main elements and features

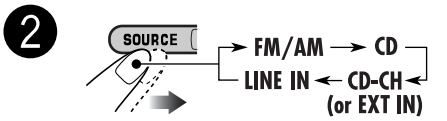
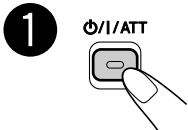
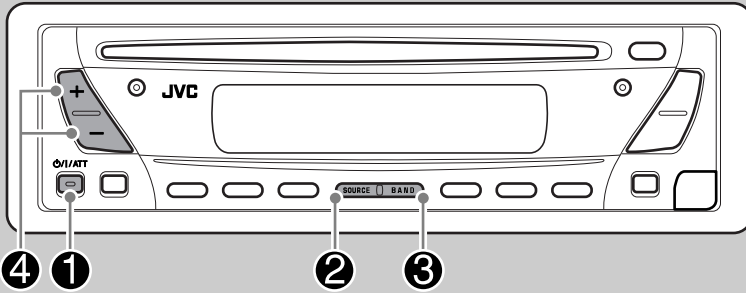


- 1 SOURCE button
  - Selects the playback source.
- 2  $\Phi$ /I ATT (standby/on attenuator) button
  - Turns on and off the power and also attenuates the sound.
- 3  $\blacktriangleleft$  REV / FWD  $\blacktriangleright$  buttons
  - Searches for stations if pressed briefly.
  - Fast-forwards or reverses the track if pressed and held.
  - Changes the tracks/files of the disc.
- 4 VOL. + / - buttons
  - Adjusts the volume level.
- 5 ENTER and number buttons
  - Selects a track/file directly.
    - Press the number button(s), then press ENTER.
  - Selects an item from the menu while playing back a Video CD (VCD) in Playback Control (PBC) function.
    - Press the number button(s), then press ENTER.

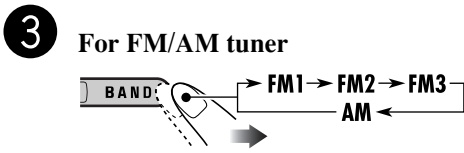
- Selects the discs while operating the CD changer.
  - To select disc number 1 – 6, press number button 1 – 6 briefly.
  - To select disc number 7 – 12, press and hold number button 1 (7) – 6 (12).
- 6 EQ (equalizer) button
  - Selects the sound mode (C-EQ: custom equalizer).
- 7 BAND  $\blacktriangleright$ /|| button
  - Changes the FM/AM bands.
  - Stops disc playback temporarily. To resume playback, press the button again.
    - Not used for CD changer operations.
    - While playing a VCD, the playback scene at the moment stops and remain stills.
- 8  $\blacktriangle$  UP / DOWN  $\blacktriangledown$  buttons
  - Changes the preset stations.
  - Changes the folder of the MP3/WMA discs if pressed briefly.
  - Changes the disc while operating the CD changer if pressed and held.
- 9 PBC (Playback Control) button
  - Activates or deactivates the PBC function.
- 10 RETURN button
  - Returns to the previous menu while playing a VCD in PBC function.
- 11 OSD (On-Screen Display) button
  - Turn on and off the OSD on the monitor.
- 12 AUDIO button
  - Selects the audio channel for VCD playback.

# Getting started

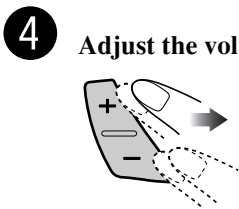
## Basic operations



You cannot select some sources if they are not ready.

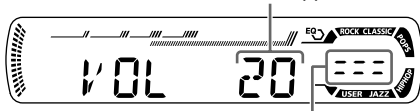


For FM/AM tuner

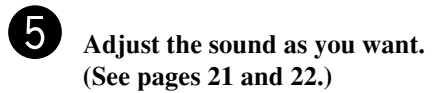


Adjust the volume.

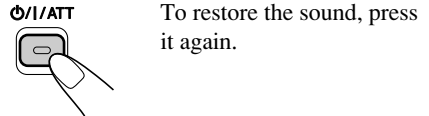
Volume level appears.



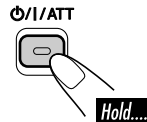
Volume level indicator



### To drop the volume in a moment (ATT)



### To turn off the power



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

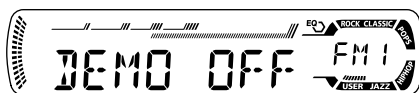
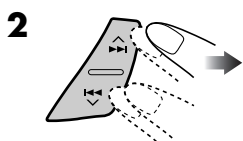
Discs produce very little noise compared with other sources. Lower the volume before playing a disc to avoid damaging the speakers by the sudden increase of the output level.



## Canceling the display demonstrations

If no operations are done for about 20 seconds, display demonstration starts.

[Initial: DEMO ON]—see page 24.



4 Finish the procedure.



## To activate the display demonstration

In step 3 above...



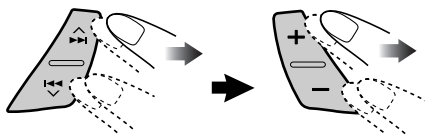
## Setting the clock



2 Set the hour and minute.

1 Select “CLOCK H” (hour), then adjust the hour.

2 Select “CLOCK M” (minute), then adjust the minute.



3 Finish the procedure.

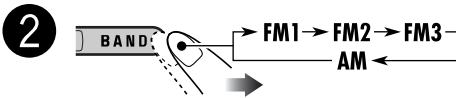
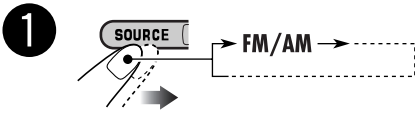
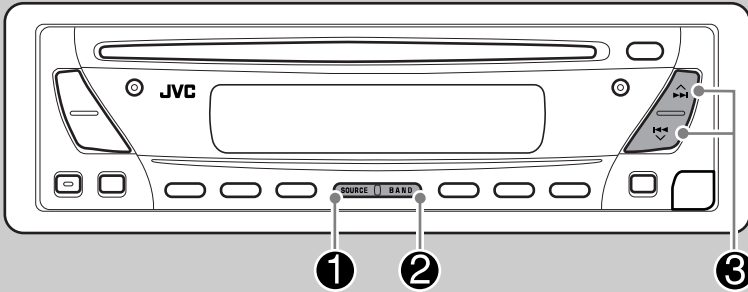


To check the current clock time when the power is turned off

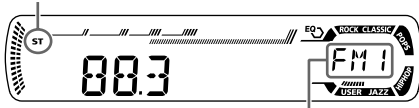


# Radio operations

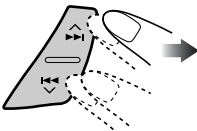
## Listening to the radio



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



Selected band appears.

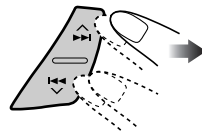
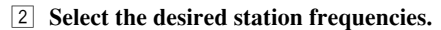
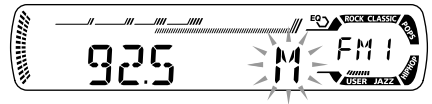
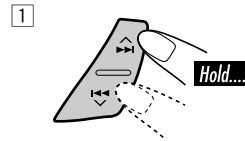


When a station is received, searching stops.

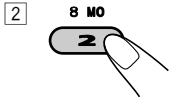
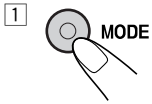
To stop searching, press the same button again.

### To tune in to a station manually

In step **3** on the left...



## When an FM stereo broadcast is hard to receive



Lights up when monaural mode is activated.



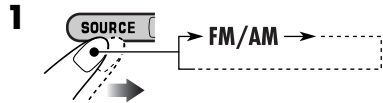
Reception improves, but stereo effect will be lost.

To restore the stereo effect, repeat the same procedure. "MONO OFF" appears and the MO indicator goes off.

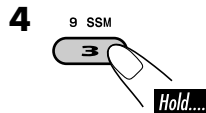
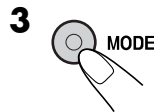
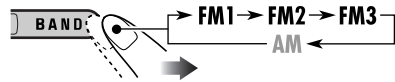
## Storing stations in memory

You can preset six stations for each band.

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



2 Select the FM band (FM1 – FM3) you want to store into.

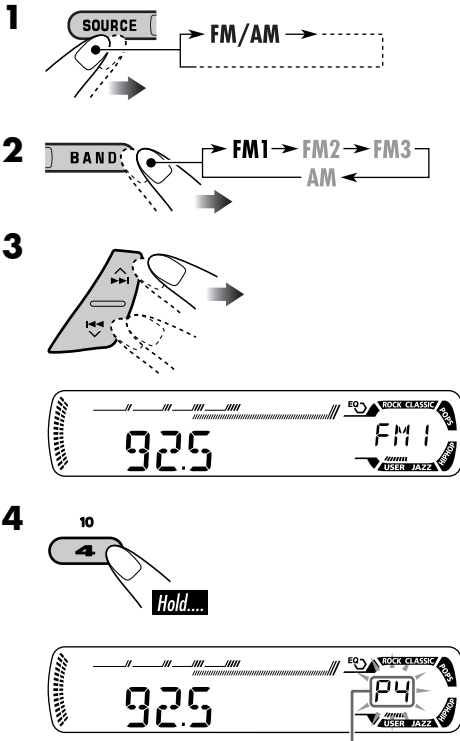


"SSM" flashes, then disappears when automatic presetting is over.

Local FM stations with the strongest signals are searched and stored automatically in the FM band.

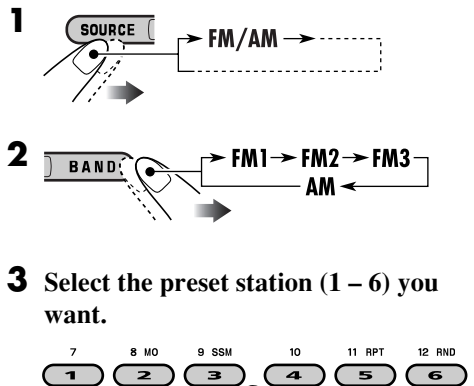
## Manual presetting

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

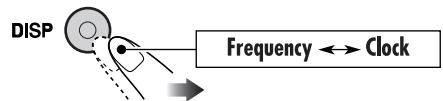


Preset number flashes for a while.

## Listening to a preset station

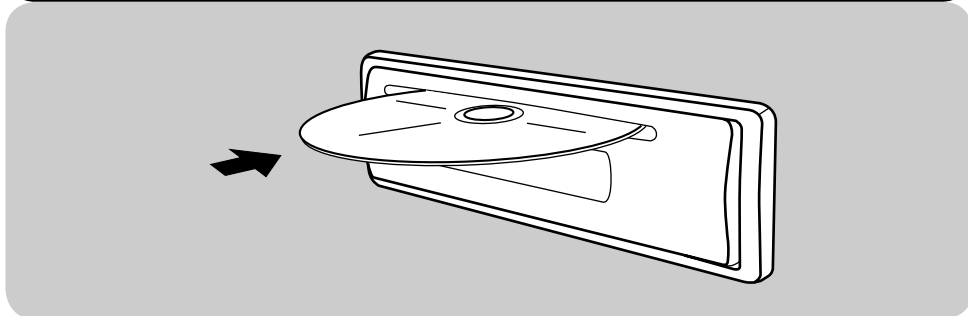
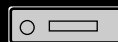


To check the current clock time while listening to an FM or AM station



# Disc operations

## Playing a disc in the unit



The disc type is automatically detected, and playback starts automatically. All tracks will be played repeatedly until you change the source or eject the disc.

- If a disc menu appears on the monitor while playing a VCD with PBC, see page 17.

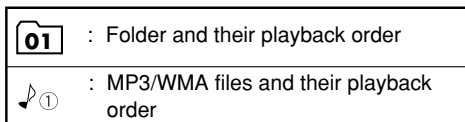
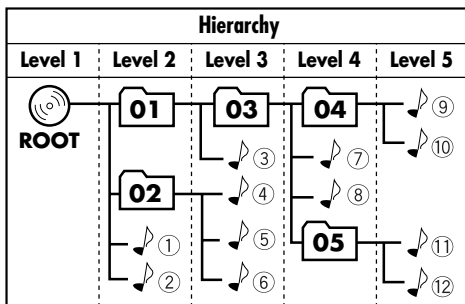
**Before performing any operations, make sure the following....**

- Turn on the monitor and select the appropriate monitor input before playing a VCD.
- If you turn on the monitor, you can also control the MP3/WMA playback by referring to the monitor screen (see page 18).
- Select the video system suitable for your monitor (see page 24).

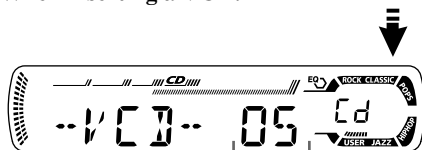
### About MP3 and WMA discs

MP3 and WMA (Windows Media® Audio) “tracks” (words “file” and “track” are used interchangeably) are recorded in “folders.”

### MP3 and WMA discs playback/search order



- **When inserting a VCD:**



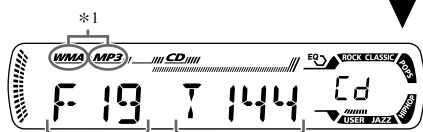
Total track number of the inserted disc



Clock      Current track number

*To be continued...*

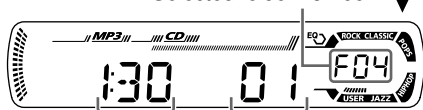
- When inserting an MP3 or a WMA disc:



Total folder number      Total track number

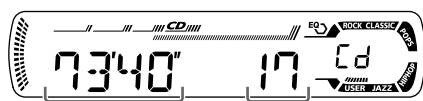
Disc information appears automatically (see page 19).

Selected folder number



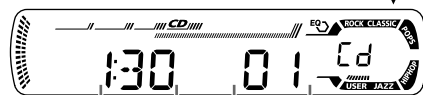
Clock      Current track number

- When inserting an audio CD or a CD Text disc:



Total playing time of the inserted disc      Total track number of the inserted disc

CD Text: Disc title/performer →  
Track title appears automatically (see page 19).



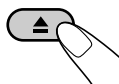
Clock\*2      Current track number

## To stop play temporarily



- To resume playback, press the button again.

## To stop play and eject the disc

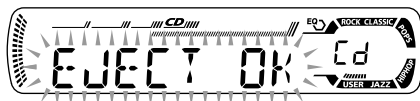


## Prohibiting disc ejection

You can lock a disc in the loading slot.



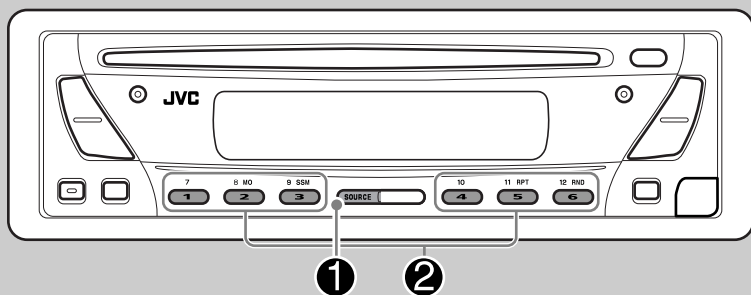
To cancel the prohibition, repeat the same procedure.



\*1 Either the MP3 or WMA indicator lights up depending on the detected file.

\*2 Elapsed playing time appears for a while if the current disc is an audio CD.

# Playing a disc in the CD changer



## About the CD changer

It is recommended to use the JVC MP3-compatible CD changer with your unit.

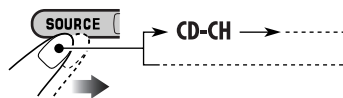
- You can also connect other CH-X series CD changers (except CH-X99 and CH-X100). However, they are not compatible with MP3 discs, so you cannot play back MP3 discs.
- You cannot use the KD-MK series CD changers with this unit.
- Disc text information recorded in the CD Text can be displayed when a JVC CD Text compatible CD changer is connected.

Before operating your CD changer:

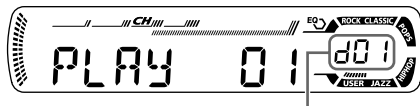
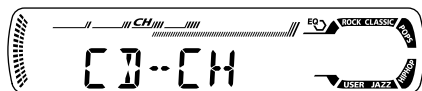
- Refer also to the Instructions supplied with your CD changer.
- You cannot control and play any WMA or VCD disc in the CD changer.

All tracks of the inserted discs in the magazine will be played repeatedly until you change the source or eject the magazine from the CD changer.

1



\* If you have changed "EXT IN" setting to "EXT IN" (see page 24), you cannot select the CD changer.



Selected disc number

2

## Select a disc.

For disc number from 01 – 06:



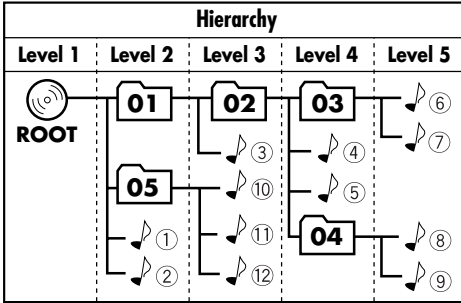
For disc number from 07 – 12:



Hold....

To be continued....

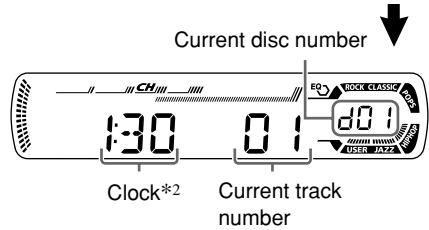
## MP3 discs playback/search order in the CD changer



<b>01</b>	: Folder and their playback order
①	: MP3 files and their playback order

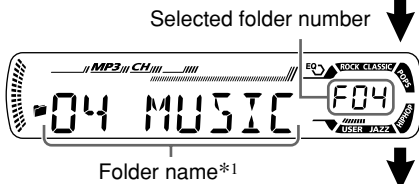
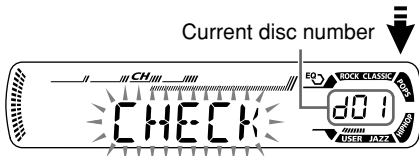
- When the current disc is an audio CD or a CD Text disc:

CD Text: Disc title/performer →  
Track title appears automatically  
(see page 19).

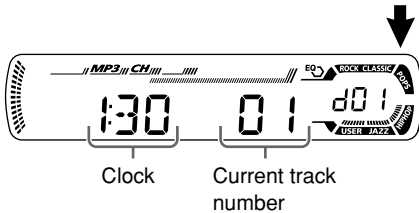


- \*1 "ROOT" appears if no folder is included in the disc.
- \*2 Elapsed playing time appears for a while if the current disc is an audio CD.

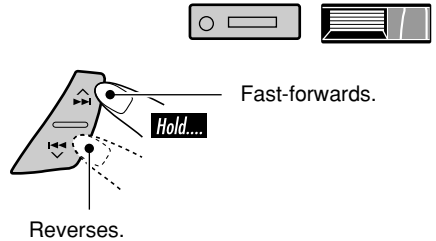
- When the current disc is an MP3 disc:



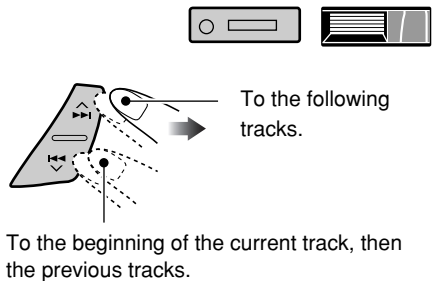
Disc information appears automatically (see page 19).



## To fast-forward or reverse the track






## To go to the next or previous tracks

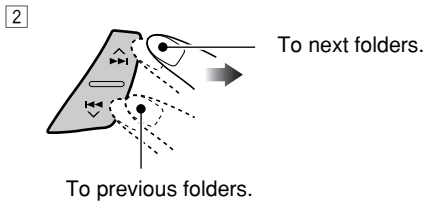
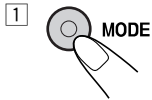




## To go to the next or previous folders (only for MP3 or WMA discs)

For MP3 discs:  

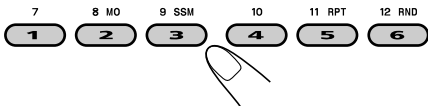
For WMA discs: 



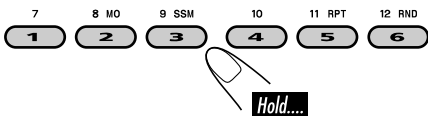
## To locate a particular track (for audio CD, CD Text, or VCD with PBC set to "PBC OFF") or folder (for MP3 or WMA discs) directly



To select a number from 01 – 06:



To select a number from 07 – 12:



- To use folder search on MP3/WMA discs, it is required that folders are assigned with 2-digits number at the beginning of their folder names—01, 02, 03, and so on.

## **Playback Control (PBC) operations**



This operation is only possible when using the remote controller.

### 1 While playing a VCD....

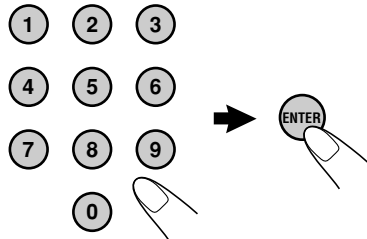


**PBC ON** : A menu appears on the monitor.

**PBC OFF** : Cancels.

- A menu may be a list of items, submenus, or some moving pictures.

### 2 Select the item you want.



- To select an item from the submenus, repeat this step.

The selected item starts playback automatically.

### To correct a mis-entry and to return to the previous menu



## On-Screen (OSD) information



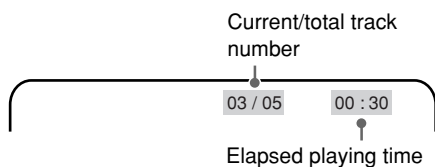
This operation is only possible when using the remote controller.

You can check the track number and elapsed playing time if the monitor is turned on.

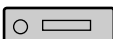
### While playing a disc....



- To turn off the On-Screen Display, press the button again.

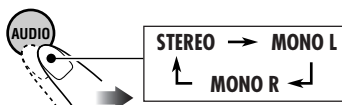


## Selecting the audio channel



This operation is only possible when using the remote controller.

You can select the audio channel to play. (This is convenient when playing a Karaoke VCD.)



**STEREO** : To listen to normal stereo (left/right) playback.

**MONO L** : To listen to the L (left) audio channel.

**MONO R** : To listen to the R (right) audio channel.

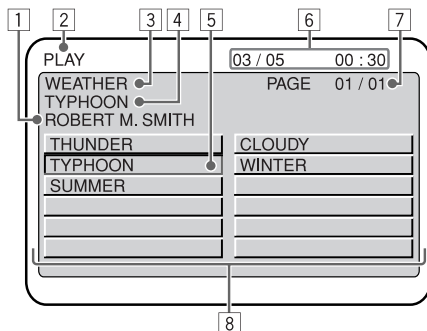
- The audio channel is automatically set to “STEREO” when you change the disc or source.

## MP3/WMA control screen operations



You can also control the playback of an MP3/WMA disc by referring to the monitor.

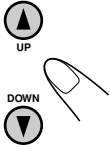
- The control screen automatically appears on the monitor when you insert an MP3/WMA disc.



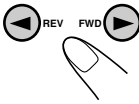
- Artiste name\* (only for MP3 discs)
  - The artiste name will scroll on the monitor if it cannot be shown at a time.
- Operation mode—PLAY, PAUSE, FF (fast-forward), FR (fast-reverse), SELECT (selected track number), REPEAT TRACK, REPEAT FOLDER, REPEAT OFF, RANDOM FOLDER, RANDOM DISC, RANDOM OFF
  - Operation mode appears for a while on the monitor.
- Folder name\*
- Track title\* (only for MP3 discs)
  - The track title will scroll on the monitor if it cannot be shown at a time.
- Highlighted bar for the current file name\*
- OSD indication—Current/total track number, Elapsed playing time
  - Appears only if you turn on the OSD (see left column).
- Current list/total list number
- Track list
  - The monitor can show 12 tracks at a time and a maximum of 239 tracks for a disc.

\* Some symbols will not be shown (and will be substituted or blanked) on the control screen.

## To select a folder



## To select a track

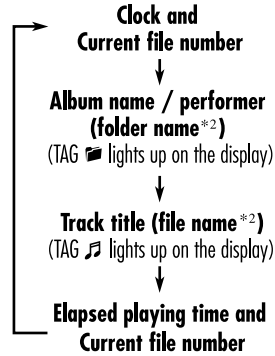


- Pressing these buttons repeatedly can also select tracks from the previous/next folders.

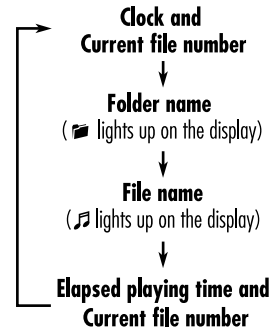
- See also page 16 for using the buttons on the control panel to select a folder or track.

## While playing an MP3 ( / ) or WMA ( ) disc

- Only for MP3 disc: When “TAG DISP” is set to “TAG ON” (see page 24)



- For MP3 disc: When “TAG DISP” is set to “TAG OFF”
- For WMA disc:

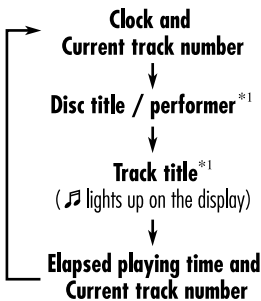


- \*1 If the current disc is an audio CD or a VCD, “NO NAME” appears.
- \*2 If an MP3 file does not have ID3 tags, folder name and file name appear. In this case, the TAG indicator will not light up.

## Changing the display information



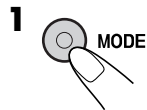
## While playing an audio CD, a CD Text ( / ), or a VCD ( ) with PBC set to “PBC OFF” (see page 17)



## Selecting the playback modes

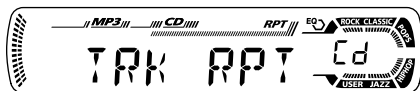
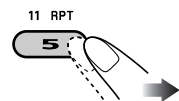
You can use only one of the following playback modes at a time.

- For VCD: While PBC (see page 17) is not in use.



### 2 Select your desired playback mode.

#### Repeat play



Ex.: When "TRK RPT" is selected while playing an MP3 disc

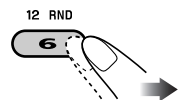
#### Mode

#### Plays repeatedly

- TRK RPT** : The current track.
- RPT lights up.
- FLDR RPT**\*1 : All tracks of the current folder.
- and RPT light up.
- DISC RPT**\*2 : All tracks of the current disc.
- and RPT light up.
- RPT OFF** : Cancels.

#### Random play

While playing an MP3/WMA/VCD disc on the unit, random play starts from the next track.



Ex.: When "DISC RND" is selected while playing an MP3 disc

#### Mode

#### Plays at random

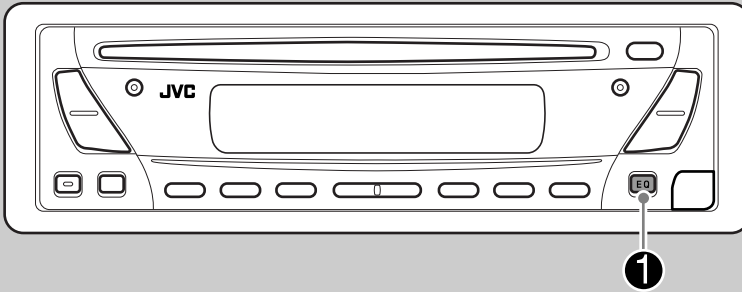
- FLDR RND**\*1 : All tracks of the current folder, then tracks of the next folder and so on.
- RND and light up.
- DISC RND** : All tracks of the current disc.
- RND and light up.
- MAG RND**\*2 : All tracks of the inserted discs.
- RND lights up.
- RND OFF** : Cancels.

\*1 Only while playing an MP3 ( / ) or WMA ( ) disc.

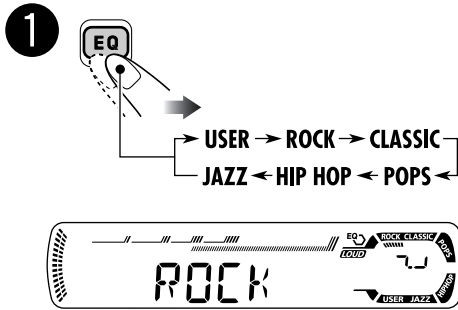
\*2 Only while playing discs in the CD changer ( ).

# Sound adjustments

## Selecting preset sound modes (C-EQ: custom equalizer)



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



Ex.: When "ROCK" is selected

Indication	For:	Preset values		
		BAS <sup>*1</sup>	TRE <sup>*2</sup>	LOUD <sup>*3</sup>
USER	(Flat sound)	00	00	OFF
ROCK	Rock or disco music	+03	+01	ON
CLASSIC	Classical music	+01	-02	OFF
POPS	Light music	+04	+01	OFF
HIP HOP	Funk or rap music	+02	00	ON
JAZZ	Jazz music	+02	+03	OFF

\*1 BAS: Bass

\*2 TRE: Treble

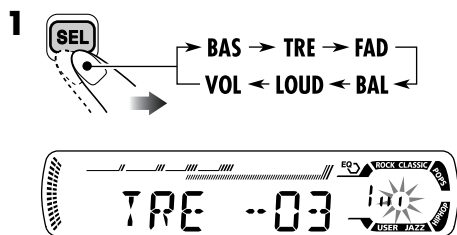
\*3 LOUD: Loudness

Indication pattern for each sound mode:

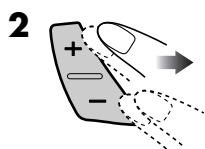
USER	ROCK	CLASSIC
JAZZ	HIP HOP	POPS

## Adjusting the sound

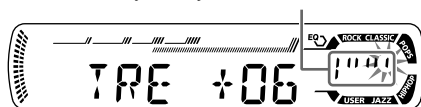
You can adjust the sound characteristics to your preference.



Ex.: When "TRE" is selected



Indication pattern changes as you adjust the level.



Indication	To do:	Range
BAS* <sup>1</sup> (bass)	Adjust the bass.	-06 (min.) to +06 (max.)
TRE* <sup>1</sup> (treble)	Adjust the treble.	-06 (min.) to +06 (max.)
FAD* <sup>2</sup> (fader)	Adjust the front and rear speaker balance.	R06 (Rear only) to F06 (Front only)
BAL (balance)	Adjust the left and right speaker balance.	L06 (Left only) to R06 (Right only)
LOUD* <sup>1</sup> (loudness)	Boost low and high frequencies to produce a well-balanced sound at low volume level.	LOUD ON ↕ LOUD OFF
VOL* <sup>3</sup> (volume)	Adjust the volume.	00 (min.) to 30 or 50 (max.)* <sup>4</sup>

\*<sup>1</sup> When you adjust the bass, treble, or loudness, the adjustment you have made is stored for the currently selected sound mode (C-EQ) including "USER."

\*<sup>2</sup> If you are using a two-speaker system, set the fader level to "00."

\*<sup>3</sup> Normally the +/- buttons work as the volume control. So you do not have to select "VOL" to adjust the volume level.

\*<sup>4</sup> Depending on the amplifier gain control setting. (See page 24 for details.)

# General settings — PSM

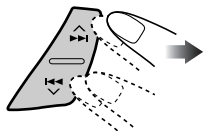
## Basic procedure

You can change PSM (Preferred Setting Mode) items listed in the table on page 24.

1

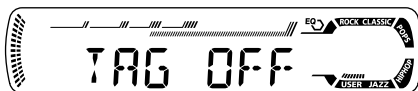
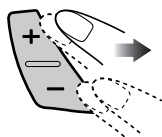


2 Select a PSM item.



Ex.: If "TAG DISP" is selected

3 Adjust the PSM item selected.



Ex.: If "TAG OFF" is selected

4 Repeat steps 2 and 3 to adjust the other PSM items if necessary.

5 Finish the procedure.



<b>Indications</b>	<b>Selectable settings, [reference page]</b>
<b>DEMO</b> Display demonstration	<b>DEMO ON</b> : [Initial]; Display demonstration will be activated automatically if no operation is done for about 20 seconds, [9]. <b>DEMO OFF</b> : Cancels.
<b>CLOCK H</b> Hour adjustment	1 – 12, [9] [Initial: 1 (1:00)]
<b>CLOCK M</b> Minute adjustment	00 – 59, [9] [Initial: 00 (1:00)]
<b>DIMMER</b> Dimmer	<b>ON</b> : Activates dimmer. <b>OFF</b> : [Initial]; Cancels.
<b>TEL</b> Telephone muting	<b>MUTING 1/ MUTING 2</b> : Select either one which mutes the sounds while using the cellular phone. <b>OFF</b> : [Initial]; Cancels.
<b>SCROLL</b> *1 Scroll	<b>ONCE</b> : [Initial]; Scrolls the disc information once. <b>AUTO</b> : Repeats scrolling (5-seconds interval in between). <b>OFF</b> : Cancels. • Pressing DISP for more than one second can scroll the display regardless of the setting.
<b>TAG DISP</b> Tag display	<b>TAG ON</b> : [Initial]; Shows the ID3 tag while playing MP3 tracks, [19]. <b>TAG OFF</b> : Cancels.
<b>AMP GAIN</b> Amplifier gain control	You can change the maximum volume level of this unit. <b>LOW PWR</b> : VOL 00 – VOL 30 (Select this if the maximum power of the speaker is less than 50 W to prevent them from damaging the speaker.) <b>HIGH PWR</b> : [Initial]; VOL 00 – VOL 50
<b>VIDEO</b> Video system	<b>PAL</b> : [Initial]; Select this if your monitor is of the PAL color system. <b>NTSC</b> : Select this if your monitor is of the NTSC color system. • Press SEL to activate the selection before you select the other PSM items to adjust.
<b>EXT IN</b> *2 External input	<b>CHANGER</b> : [Initial]; To use a JVC CD changer, [15]. <b>EXT IN</b> : To use another external component, [26].

\*1 Some characters or symbols will not be shown (and will be blanked) on the display.  
(Ex. "ABC&!d#" ⇒ "ABCA D ".)

\*2 Displayed only when one of the following sources is selected—FM, AM, or CD.



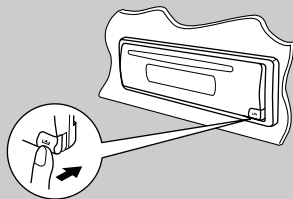
# Detaching the control panel

When detaching or attaching the control panel, be careful not to damage the connectors on the back of the control panel and on the panel holder.

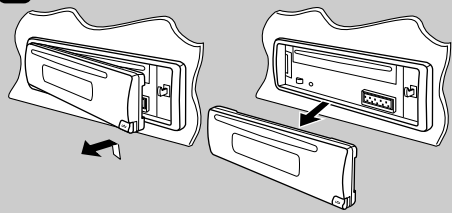
## ■ Detaching the control panel

Before detaching the control panel, be sure to turn off the power.

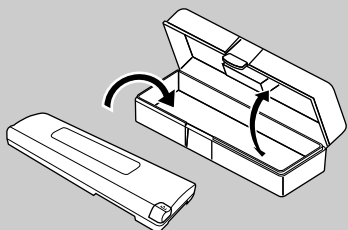
1



2

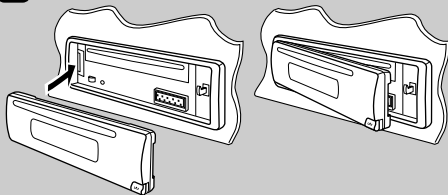


3

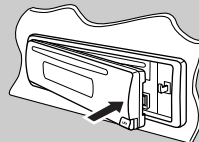


## ■ Attaching the control panel

1

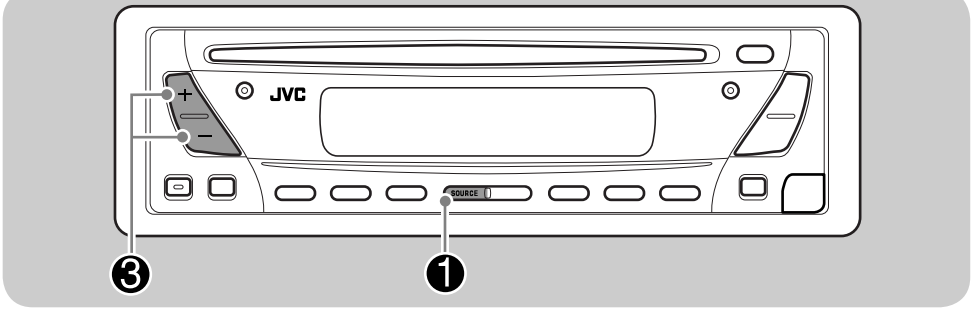


2



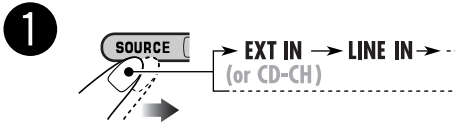
# External component operations

## Playing an external component



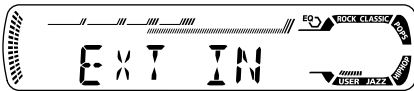
You can connect an external component to the LINE IN plugs on the rear, and another to the CD changer jack on the rear using the Line Input Adapter KS-U57 (not supplied).

- For connection, see Installation/Connection Manual (separate volume).



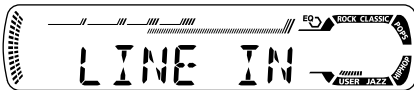
**1**

EXT IN : For selecting the external component connected to the CD changer jack on the rear using KS-U57.



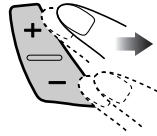
- If “EXT IN” does not appear, see page 24 and select the external input (EXT IN).

LINE IN : For selecting the external component connected to the LINE IN plugs.



- 2** Turn on the connected component and start playing the source.

- 3** Adjust the volume.



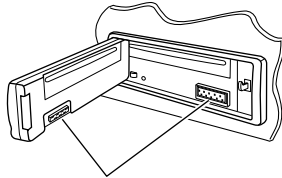
- 4** Adjust the sound as you want. (See pages 21 and 22.)

# 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.



Connector

## Moisture condensation

Moisture may condense on the lens inside the VCD/CD player in the following cases:

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

Should this occur, the VCD/CD player may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

## 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 into its case,** gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs into the 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 solvent (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:

Warped disc



Sticker



Sticker residue

Disc



Stick-on label

# More about this unit

## Basic operations

### Turning on the power

- By pressing SOURCE on the unit, you can also turn on the power.

### Turning off the power

- If you turn off the power while listening to a disc, disc play will start from where playback has been stopped previously, next time you turn on the power.

For MP3/WMA discs, playback will start from the beginning of the last playing track.

## Tuner operations

### Storing stations in memory

- During SSM search...
  - All previously stored stations are erased and stations are stored newly.
  - 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, a previously preset station is erased when a new station is stored in the same preset number.

## Disc operations

### Caution for DualDisc playback

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

### General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA format.
- This unit cannot playback SVCD, DVDs, CD-Gs, or CD-I discs.
- When a disc has been loaded, selecting “CD” for the playback source starts disc play.

### Inserting a disc

- When a disc is inserted upside down, the disc automatically ejects.
- Do not insert 8 cm discs (single CD) and unusual shape discs (heart, flower, etc.) into the loading slot.

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

- Use only “finalized” CD-Rs or CD-RWs.
- This unit can play back only the files of the same type which is first detected if a disc includes both audio CD (CD-DA) files and MP3/WMA files.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, and for the following causes:
  - Discs are dirty or scratched.
  - Moisture condensation occurs on the lens inside the unit.
  - The pickup lens inside the unit is dirty.
  - CD-R or CD-RW on which the files are written with “Packet Write” method.
  - There are improper recording conditions (missing data, etc.) or media conditions (stain, scratch, warp, 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 protective seal stuck to the surface.
  - Discs on which labels can be directly printed by an ink jet printer.Using these discs under high temperatures or high humidities may cause malfunctions or damages to discs.

### Playing a VCD disc

- The PBC function is not available for some VCDs.
- The PBC function is automatically canceled when you change the source or turn off the unit. Playback starts from the beginning of the discs when you play the VCD again.

- The On-Screen Display (OSD) will automatically canceled when you change the source or turn off the unit.

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

- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds.
- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can show the names of albums, artists (performer), and ID3 Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files.
- This unit can handle only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
  - Bit rate: MP3: 32 kbps — 320 kbps  
WMA: 48 kbps — 192 kbps
  - Sampling frequency:  
48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)  
24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)  
48 kHz, 44.1 kHz, 32 kHz (for WMA)
  - Disc format: ISO 9660 Level 1/ Level 2, Romeo, Joliet, Windows long file name
- The maximum number of characters for file/folder names vary among the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
  - ISO 9660 Level 1: up to 12 characters
  - ISO 9660 Level 2: up to 31 characters
  - Romeo: up to 40 characters
  - Joliet: up to 40 characters
  - Windows long file name: up to 40 characters
- This unit can recognize the total of 512 files, of 256 folders, and of 8 hierarchies.
- This unit can play back the files recorded in VBR (variable bit rate).  
The files recorded in VBR have a discrepancy in elapsed time display, and do not show the actual elapsed time. Especially, after performing the search function, this difference becomes noticeable.

- This unit cannot play back the following files:
  - MP3 files encoded with MP3i and MP3 PRO format.
  - MP3 files encoded in an unappropriated format.
  - MP3 files encoded with Layer 1.
  - WMA files encoded with lossless, professional, and voice format.
  - WMA files which are not based upon Windows Media® Audio.
  - WMA formatted files copy-protected with DRM.
  - Files which have the data such as WAVE, ATAC3, etc.
- The search function works but search speed is not constant.

### **Changing the source**

- If you change the source, playback also stops (without ejecting the disc).  
Next time you select “CD” for the playback source, disc play starts from where it has been stopped previously.  
For MP3/WMA discs, playback will start from the beginning of the last playing track.

### **Ejecting a disc**

- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to prevent it from dust. (Disc will not play this time.)

### **General settings—PSM**

- If you change the “AMP GAIN” setting from “HIGH PWR” to “LOW PWR” while the volume level is set higher than “VOL 30,” the unit automatically changes the volume level to “VOL 30.”

# Troubleshooting

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

	Symptoms	Causes	Remedies
General	<ul style="list-style-type: none"> <li>• Sound cannot be heard from the speakers.</li> </ul>	<p>The volume level is set to the minimum level.</p> <p>Connections are incorrect.</p>	<p>Adjust it to the optimum level.</p> <p>Check the cords and connections.</p>
	<ul style="list-style-type: none"> <li>• The unit does not work at all.</li> </ul>	<p>The built-in microcomputer may have functioned incorrectly due to noise, etc.</p>	<p>Reset the unit (see page 2).</p>
FM/AM	<ul style="list-style-type: none"> <li>• SSM automatic presetting does not work.</li> </ul>	<p>Signals are too weak.</p>	<p>Store stations manually.</p>
	<ul style="list-style-type: none"> <li>• Static noise while listening to the radio.</li> </ul>	<p>The antenna is not connected firmly.</p>	<p>Connect the antenna firmly.</p>
Disc playback	<ul style="list-style-type: none"> <li>• Disc automatically ejects.</li> </ul>	<p>Disc is inserted upside down.</p>	<p>Insert the disc correctly.</p>
	<ul style="list-style-type: none"> <li>• CD-R/CD-RW cannot be played back.</li> <li>• Tracks on the CD-R/CD-RW cannot be skipped.</li> </ul>	<p>CD-R/CD-RW is not finalized.</p>	<ul style="list-style-type: none"> <li>• Insert a finalized CD-R/CD-RW.</li> <li>• Finalize the CD-R/CD-RW with the component which you used for recording.</li> </ul>
	<ul style="list-style-type: none"> <li>• Disc can be neither played back nor ejected.</li> </ul>	<p>Disc is locked.</p>	<p>Unlock the disc (see page 14).</p>
		<p>The VCD/CD player may have functioned incorrectly.</p>	<p>Eject the disc forcibly (see page 2).</p>
	<ul style="list-style-type: none"> <li>• Sound and pictures are sometimes interrupted or distorted.</li> </ul>	<p>You are driving on rough roads.</p>	<p>Stop playback while driving on rough roads.</p>
		<p>Disc is scratched.</p>	<p>Change the disc.</p>
		<p>Connections are incorrect.</p>	<p>Check the cords and connections.</p>
	<ul style="list-style-type: none"> <li>• “NO DISC” appears on the display.</li> </ul>	<p>No disc is in the loading slot.</p>	<p>Insert a disc into the loading slot.</p>
<p>Disc is inserted incorrectly.</p>		<p>Insert the disc correctly.</p>	

	Symptoms	Causes	Remedies
<b>Disc playback</b>	<ul style="list-style-type: none"> <li>Track skips automatically and no sound can be heard.</li> </ul>	<ul style="list-style-type: none"> <li>Tracks are not encoded in an appropriate format.</li> <li>Copy-protected WMA tracks cannot be played back.</li> </ul>	Skip to the next track.
	<ul style="list-style-type: none"> <li>No playback picture (VCD) appears on the monitor.</li> </ul>	Parking brake wire is not connected properly.	See Installation/Connection Manual.
		The video cord is not connected correctly.	Connect the video cord correctly.
		An incorrect input has been selected on the monitor.	Select a correct input on the monitor.
<b>MP3/WMA playback</b>	<ul style="list-style-type: none"> <li>Disc cannot be played back.</li> </ul>	No MP3/WMA tracks are recorded on the disc.	Change the disc.
		MP3/WMA tracks do not have the extension code <.mp3> or <.wma> in their file names.	Add the extension code <.mp3> or <.wma> to their file names.
		MP3/WMA tracks are not recorded in the format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet.	Change the disc. (Record MP3/WMA tracks using a compliant application.)
	<ul style="list-style-type: none"> <li>Noise is generated.</li> </ul>	The track played back is not an MP3/WMA file (although it has the extension code <.mp3> or <.wma>).	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
<ul style="list-style-type: none"> <li>A longer readout time is required (“CHECK” keeps flashing on the display).</li> </ul>	Readout time varies due to the complexity of the folder/file configuration.	Do not use too many hierarchies and folders.	

To be continued...

	Symptoms	Causes	Remedies
<b>MP3/WMA playback</b>	<ul style="list-style-type: none"> <li>Elapsed playing time is not correct.</li> </ul>	This sometimes occurs during play. This is caused by how the tracks are recorded on the disc.	_____
	<ul style="list-style-type: none"> <li>“NO FILES” appears on the display.</li> </ul>	The current disc does not contain any MP3/WMA tracks.	Insert a disc that contains MP3/WMA tracks.
	<ul style="list-style-type: none"> <li>Correct characters are not displayed (e.g. album name).</li> </ul>	This unit can only display alphabets (capital: A – Z), numbers, and a limited number of symbols.	_____
<b>CD changer</b>	<ul style="list-style-type: none"> <li>“NO DISC” appears on the display.</li> </ul>	No disc is in the magazine.	Insert disc into the magazine.
		Disc is inserted upside down.	Insert disc correctly.
	<ul style="list-style-type: none"> <li>“NO MAG” appears on the display.</li> </ul>	No magazine is loaded in the CD changer.	Insert the magazine.
	<ul style="list-style-type: none"> <li>“RESET 8” appears on the display.</li> </ul>	This unit is not connected to the CD changer correctly.	Connect this unit and the CD changer correctly and press the reset button of the CD changer.
	<ul style="list-style-type: none"> <li>“RESET 1” – “RESET 7” appears on the display.</li> </ul>	_____	Press the reset button of the CD changer.
	<ul style="list-style-type: none"> <li>The CD changer does not work at all.</li> </ul>	The built-in microcomputer may function incorrectly due to noise, etc.	Reset the unit (see page 2).



# Specifications

## AUDIO AMPLIFIER SECTION

Maximum Power Output:

Front: 50 W per channel

Rear: 50 W per channel

Continuous Power Output (RMS):

Front: 19 W per channel into 4  $\Omega$ , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Rear: 19 W per channel into 4  $\Omega$ , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Load Impedance: 4  $\Omega$  (4  $\Omega$  to 8  $\Omega$  allowance)

Tone Control Range:

Bass:  $\pm 10$  dB at 100 Hz

Treble:  $\pm 10$  dB at 10 kHz

Frequency Response: 40 Hz to 20 000 Hz

Signal-to-Noise Ratio: 70 dB

Line-Out Level/Impedance:

2.0 V/20 k $\Omega$  load (full scale)

Output Impedance: 1 k $\Omega$

Other Terminals: LINE IN, CD changer

## VIDEO SECTION

Color system: PAL/NTSC

Video output (composite): 1 V<sub>p-p</sub>/75  $\Omega$

## TUNER 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  $\mu$ V/75  $\Omega$ )

50 dB Quieting Sensitivity:

16.3 dBf (1.8  $\mu$ V/75  $\Omega$ )

Alternate Channel Selectivity (400 kHz): 65 dB

Frequency Response: 40 Hz to 15 000 Hz

Stereo Separation: 35 dB

Capture Ratio: 1.5 dB

### [AM Tuner]

Sensitivity: 20  $\mu$ V

Selectivity: 35 dB

## VCD/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: Max. Bit Rate: 320 kbps

WMA (Windows Media<sup>®</sup> Audio):

Max. Bit Rate: 192 kbps

## 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  $\times$  H  $\times$  D):

Installation Size (approx.):

182 mm  $\times$  52 mm  $\times$  150 mm

Panel Size (approx.):

188 mm  $\times$  58 mm  $\times$  11 mm

Mass (approx.):

1.3 kg (excluding accessories)

*Design and specifications are subject to change without notice.*

- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.



**Having TROUBLE with operation?**

**Please reset your unit**

**Refer to page of How to reset your unit**

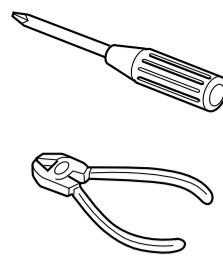
**JVC**



EN

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0405DTSMDTJEIN



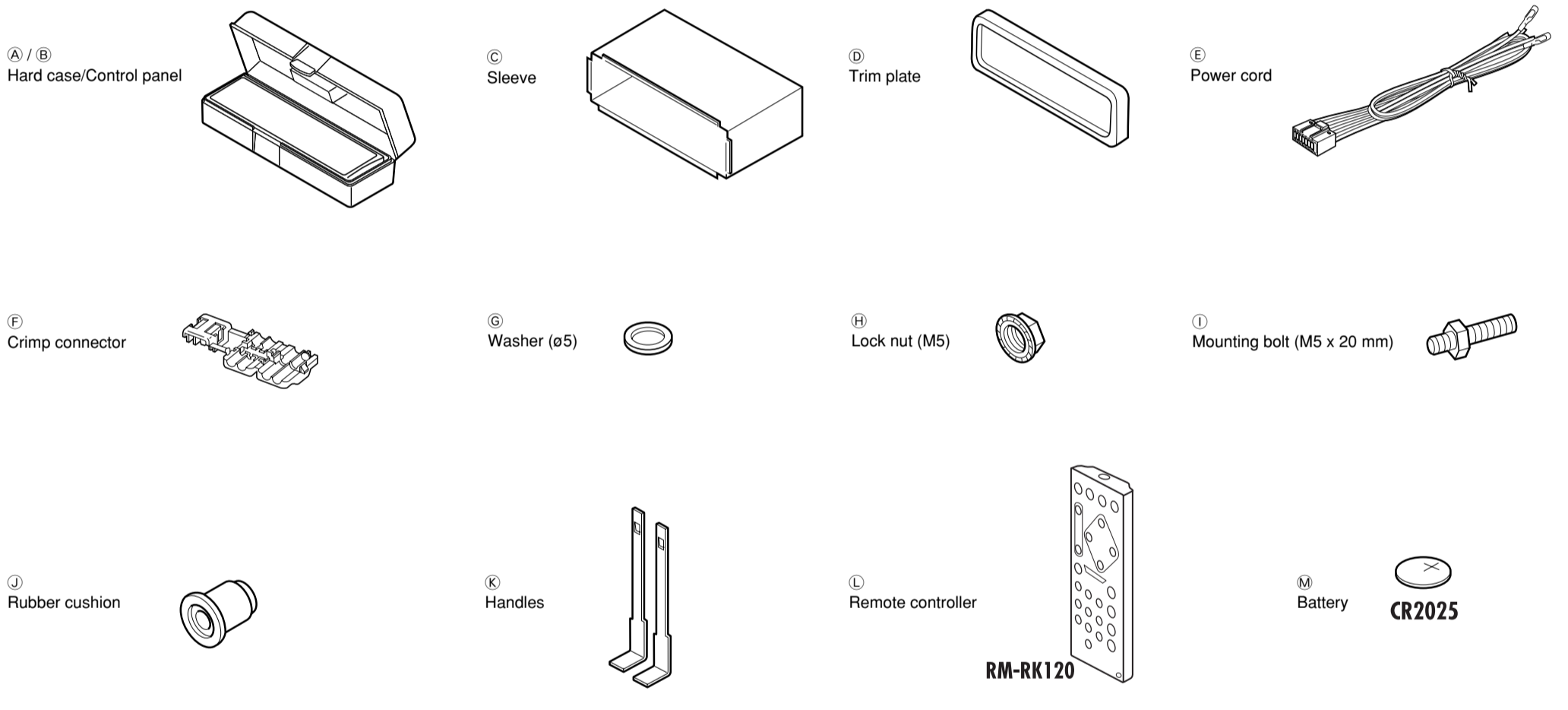
This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

## WARNINGS

- DO NOT install any unit in locations where;
  - it may obstruct the steering wheel and gearshift lever operations, as this may result in a traffic accident.
  - it may obstruct the operation of safety devices such as air bags, as this may result in a fatal accident.
  - it may obstruct visibility.
- DO NOT operate any unit while manipulating the steering wheel, as this may result in a traffic accident.
- The driver must not watch the monitor while driving.
  - If the driver watches the monitor while driving, it may lead to carelessness and cause an accident.
- If you need to operate the unit while driving, be sure to look ahead carefully or you may be involved in a traffic accident.
- If the parking brake is not engaged, "PARKING" flashes on the display, and no playback picture will be shown on the monitor.
  - This warning appears only when the parking brake wire is connected to the parking brake system built in the car.

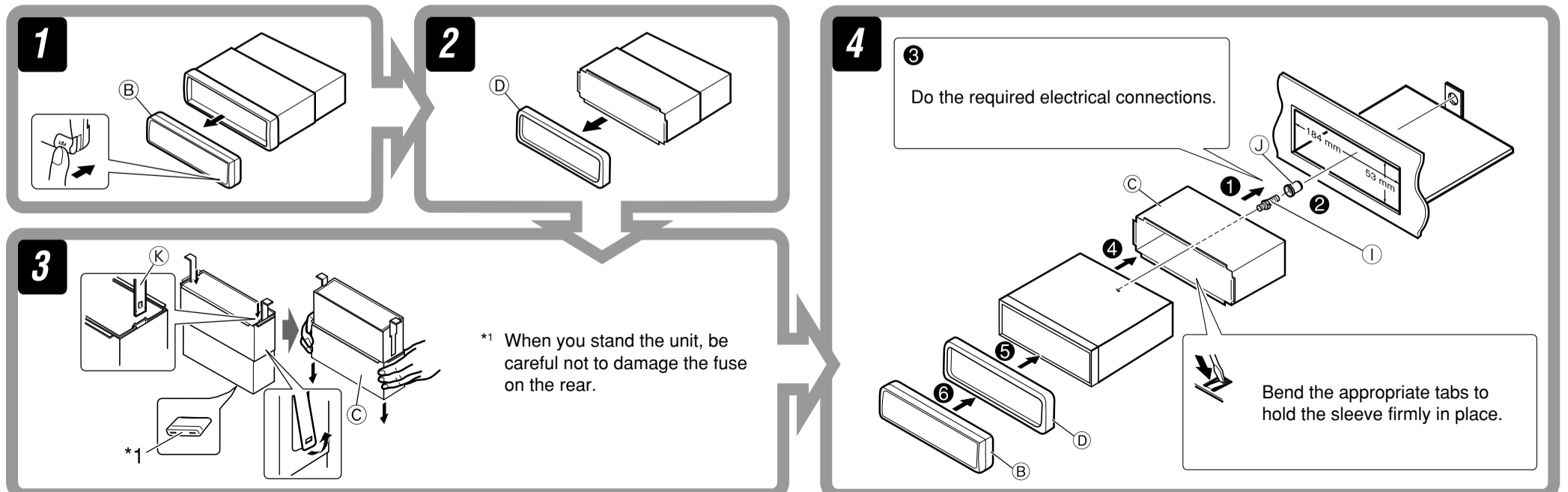
### Parts list for installation and connection

The following parts are provided for this unit.  
After checking them, please set them correctly.

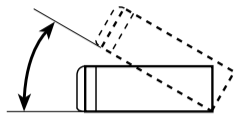
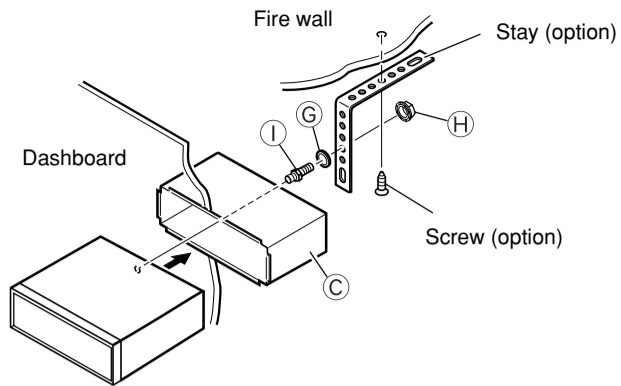


## INSTALLATION (IN-DASH MOUNTING)

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.



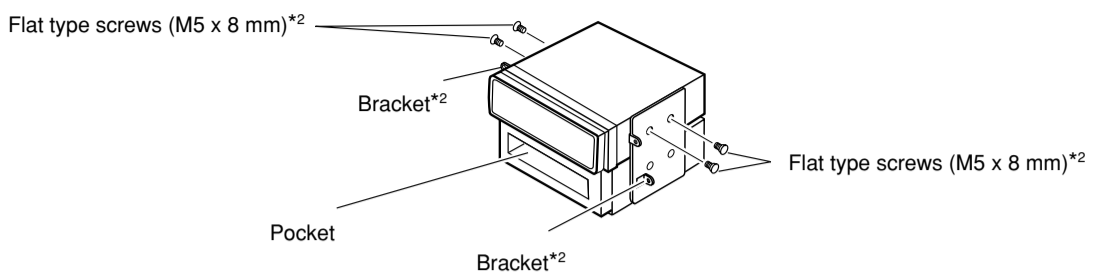
### When using the optional stay



Install the unit at an angle of less than 30°.

### When installing the unit without using the sleeve

In a Toyota for example, first remove the car radio and install the unit in its place.

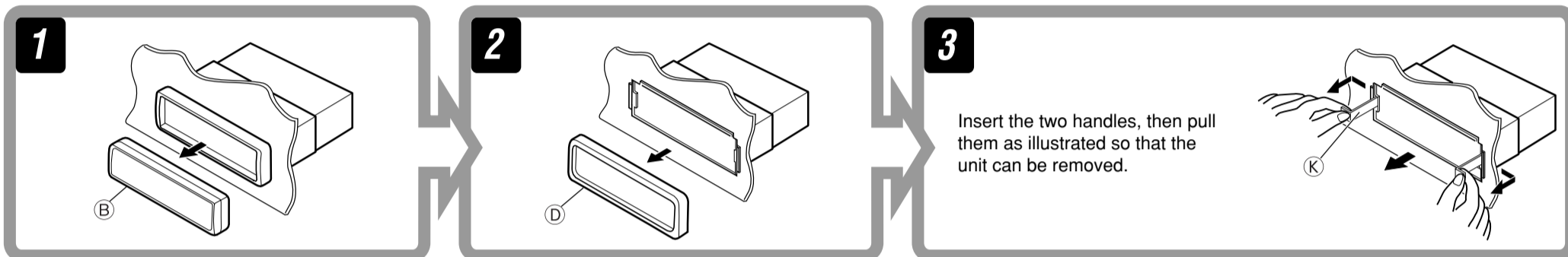


\*2 Not included for this unit.

**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.

### Removing the unit

Before removing the unit, release the rear section.



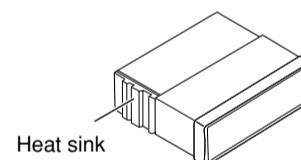
## ELECTRICAL CONNECTIONS

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.**

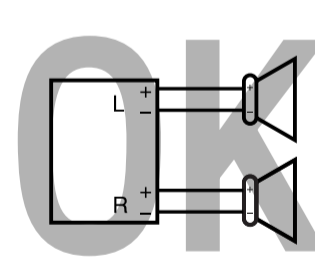
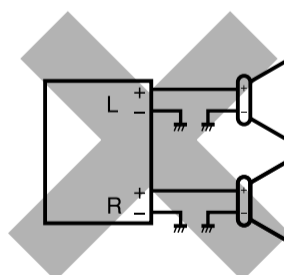
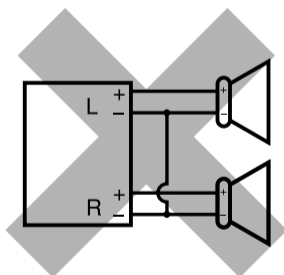
#### Notes:

- 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 to the speakers with 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 24 of the INSTRUCTIONS).
- To prevent short-circuit, 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.



### 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.



## 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?
- **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?

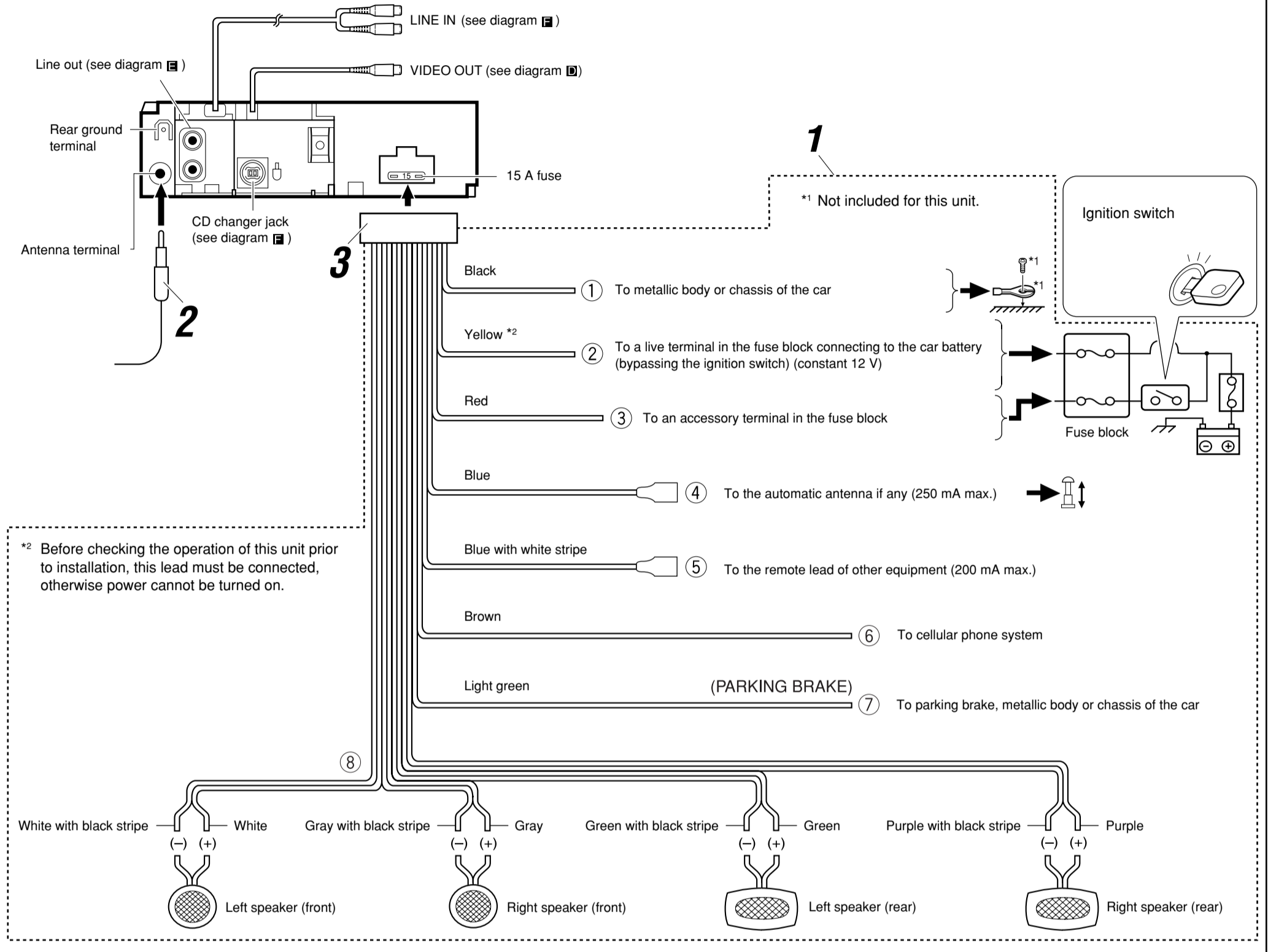
## A Typical Connections

**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.

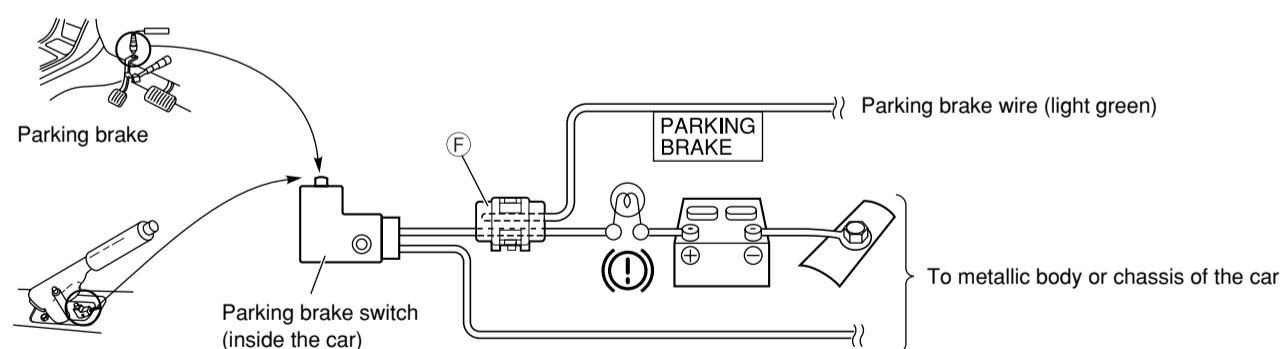
**2** Connect the antenna cord.

**3** Finally connect the wiring harness to the unit.

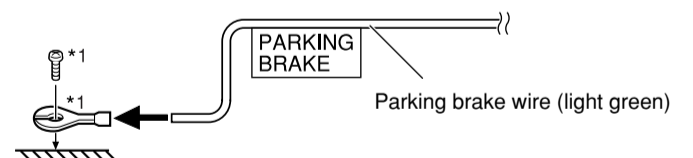


## B Connecting the parking brake wire

**When installing the monitor in a location where it can be seen by the driver**  
Connect the parking brake wire to the parking brake system built in the car.



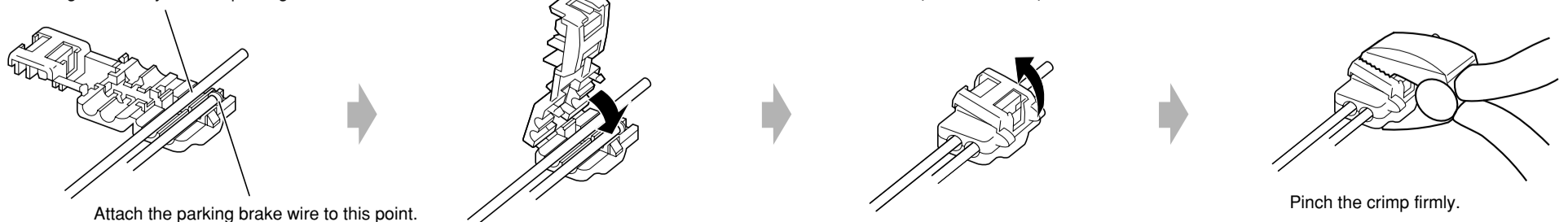
**When installing the monitor in a location where it cannot be seen by the driver**  
Connect the parking brake wire to metallic body or chassis of the car.



## C Connecting the crimp connector

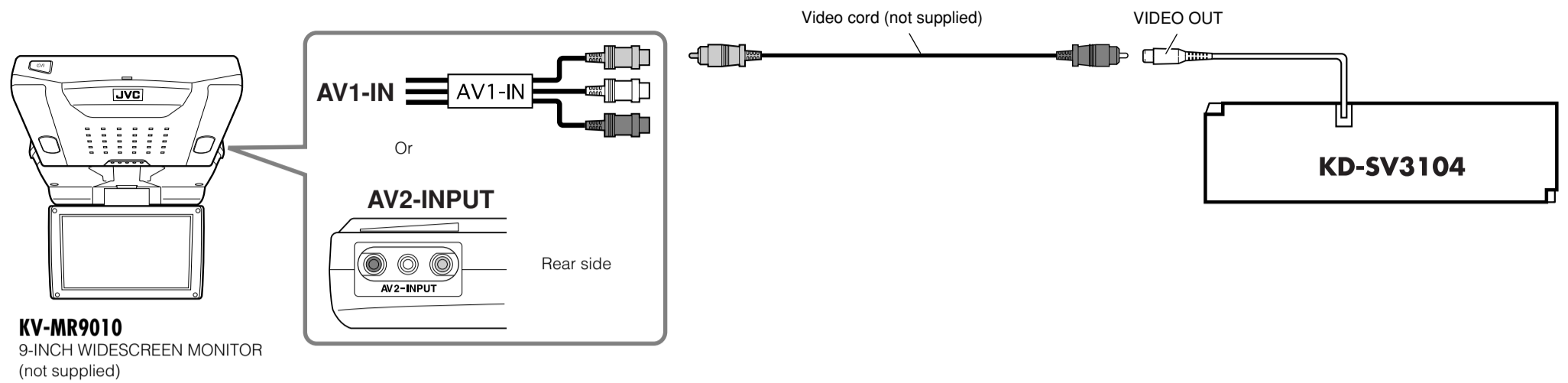
Wire connecting the battery and the parking brake switch.

Contact the metallic part of the crimp to the wires inside.



## D Connecting the monitor

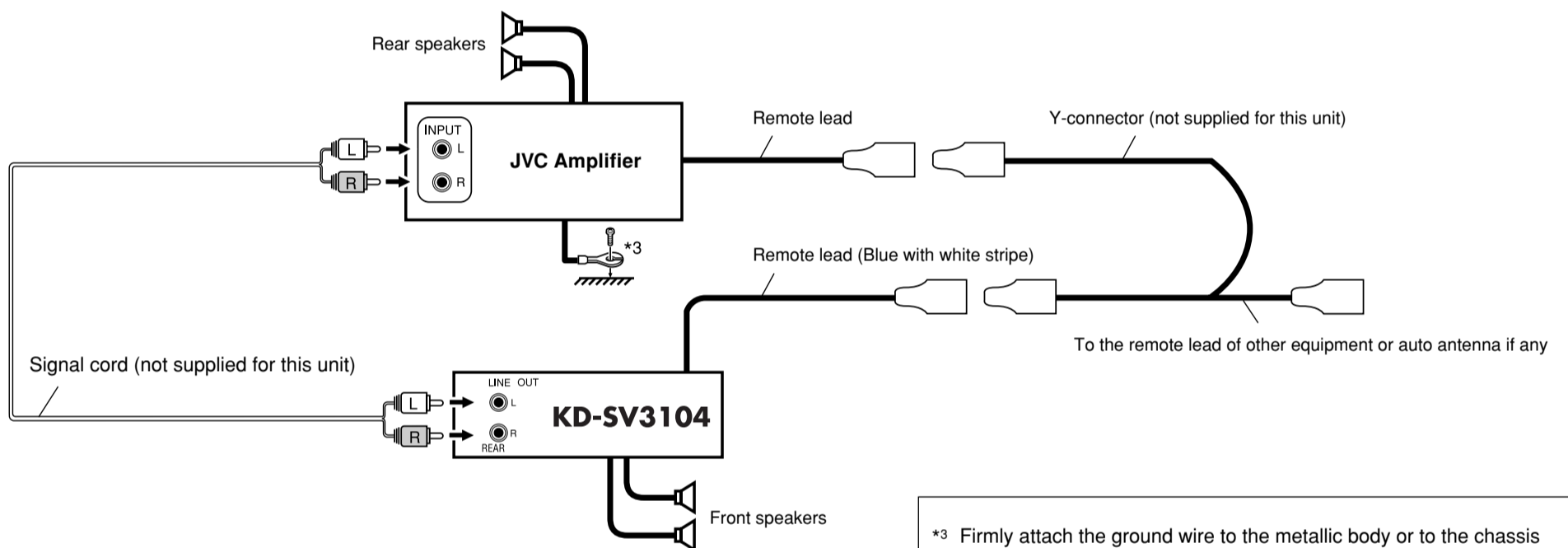
Before connecting the monitor, make sure the unit is turned off.



## E Connecting the external amplifier

You can connect amplifier 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.**

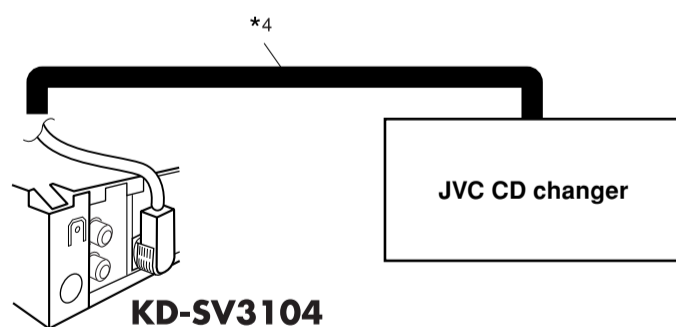


\*3 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place not coated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.

## F Connecting the external components

### JVC CD changer

- Refer also to page 15 of the INSTRUCTIONS.



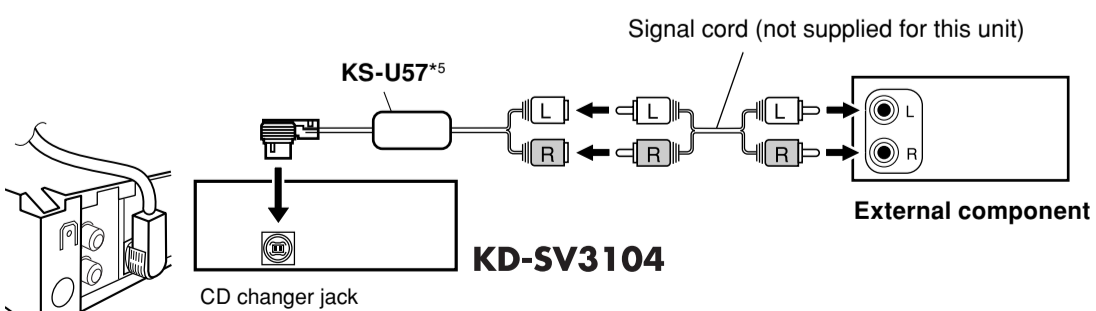
\*4 Connecting cord supplied for your CD changer

#### CAUTION :

- Before connecting the CD changer, make sure that the unit is turned off.

### External component

Set external input to "EXT IN" (see page 24 of the INSTRUCTIONS).



\*5 Line Input Adapter KS-U57 (not supplied for this unit)

