

# JVC



ENGLISH

ESPAÑOL

FRANÇAIS

**CD RECEIVER**

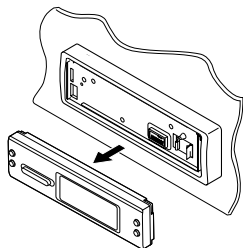
**KD-AR5000/KD-LHX500**

**RECEPTOR CON CD**

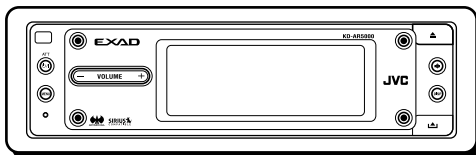
**KD-AR5000/KD-LHX500**

**RECEPTEUR CD**

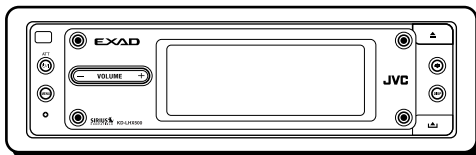
**KD-AR5000/KD-LHX500**



**KD-AR5000**



**KD-LHX500**



**EXAD**

**SIRIUS**  
COMPATIBLE

**PICT**

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

- This unit is equipped with the display demonstration. To cancel it, see page 7.
- Esta unidad está equipada con demostración en la pantalla. Para cancelarla, consulte la página 7.
- Cet appareil est équipé d'une fonction de démonstration des affichages. Pour l'annuler, référez-vous à la page 7.

For installation and connections, refer to the separate manual.  
Para la instalación y las conexiones, refiérase al manual separado.  
Pour l'installation et les raccordements, se référer au manuel séparé.

## **INSTRUCTIONS**

**MANUAL DE INSTRUCCIONES**  
**MANUEL D'INSTRUCTIONS**

**For customer Use:**

Enter below the Model No. and Serial No. which are located on the top or bottom of the cabinet. Retain this information for future reference.

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

LVT1134-001A

[J]

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.

### **INFORMATION (For U.S.A.)**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

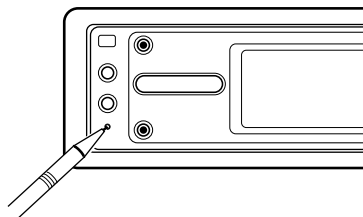
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **Warning:**

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

### **How to reset your unit**

Press the reset button on the control panel using a ball-point pen or a similar tool. This will reset the built-in microcomputer.



*Your preset adjustments—such as preset channels or sound adjustments—will also be erased.*

### **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.

### **Cautions:**

- Do not operate the touch panel using a ball-point pen or a similar tool with the sharp tip (it may damage the touch panel).
  - If the temperature inside the car is below 0°C (32°F), the movement of animation and text scroll will be halted on the display to prevent the display from being blurred.
- LowTEMP** appears on the display. When the temperature increases, and the operating temperature is resumed, these functions will start working again.

### **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.



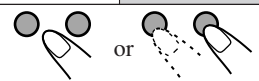
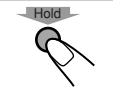
# Important!

## How to read this manual:

To make the explanations as simple and easy-to-understand as possible, we have adapted the following methods:

- Some related tips and notes are explained later in the sections “More about This Receiver” (see pages 46 to 48) but not in the same section explaining the operations. If you want to know more about the functions, or if you have a doubt about the function, go to the section and you will find the answers.

- Button and touch panel operations are explained only with the illustrations as follows:

	Press briefly.
	Press repeatedly.
	Press either one.
	Press and hold until your desired response begins.

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# Location of the Buttons

## Control panel

### ⏻/I ATT (Standby/On/Attenuator) button

Turns on and off the power, and also attenuates the sounds.

### ↻ (angle) button

Adjust the control panel angle.

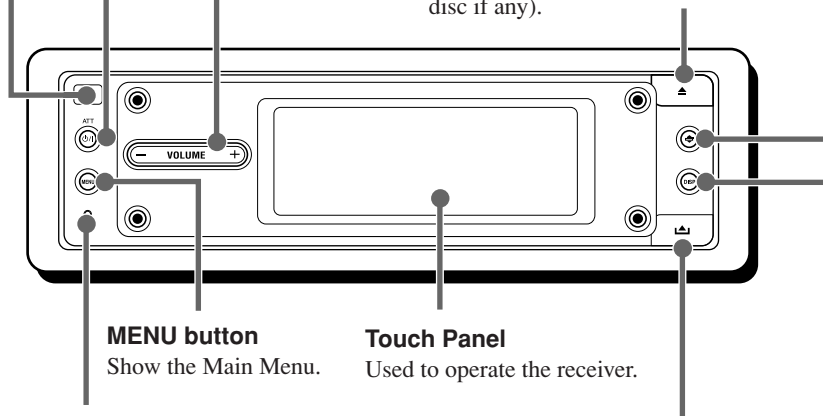
### Remote sensor\*

### VOLUME+/- button

Adjust the volume level.

### ▲ (eject) button

Open the control panel (and eject the disc if any).



### MENU button

Show the Main Menu.

### Touch Panel

Used to operate the receiver.

### Reset button

Reset the built-in microcomputer.

### ▲ (control panel release) button

Detach the control panel.

\* DO NOT expose the remote sensor on the control panel to strong light (direct sunlight or artificial lighting).

### DISP (display) button

Change the information shown on the display.

## WARNINGS on the battery:

- Store the battery in a place where children cannot reach. If a child accidentally swallows the battery, consult a doctor immediately.
- Do not recharge, short, disassemble, or heat the battery or dispose of it in a fire. Doing any of these things may cause the battery to give off heat, crack, or start a fire.
- Do not leave the battery with other metallic materials. Doing this may cause the battery to give off heat, crack, or start a fire.
- When throwing away or saving the battery, wrap it in tape and insulate; otherwise, the battery may start to give off heat, crack, or start a fire.
- Do not poke the battery with tweezers or similar tools. Doing this may cause the battery to give off heat, crack, or start a fire.

**Remote controller**

**⏻/I/ATT (Standby/On/Attenuator) button**

**SOURCE button**

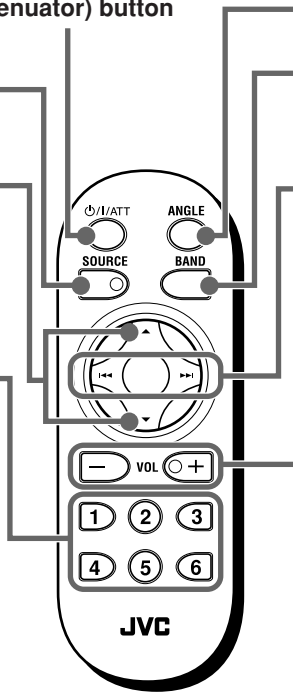
Select the source.

**▲/▼ buttons**

- Change the preset stations.
- Change the folder on the MP3/WMA discs.

**Number buttons**

- Select the preset station if pressed, or Store a station if press and held.
- Select the tracks while playing CDs.
- Select the folders while playing MP3 discs.
- Select the discs while operating the CD changer.



**ANGLE button**

Adjust the control panel angle.

**BAND button**

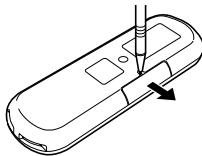
Select the FM/AM band (FM1, FM2, FM3, and AM).

**◀◀/▶▶ buttons**

- Searches for stations (Auto Search) if pressed, or Skips frequencies after pressed and held (Manual Search).
- Change the tracks on the disc.

**VOL (volume) +/- buttons**

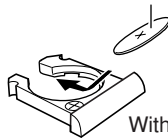
**1**



(back side)

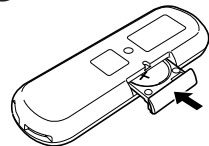
**2**

Lithium coin battery (CR2025)



With the + side facing upwards

**3**



**CAUTION:**

DO NOT leave the remote controller in a place (such as dashboards) exposed to direct sunlight for a long time. Otherwise, it may be damaged.

# Basic Operations

## 1 Turn on the power

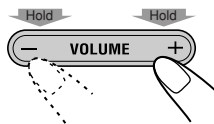
ATT



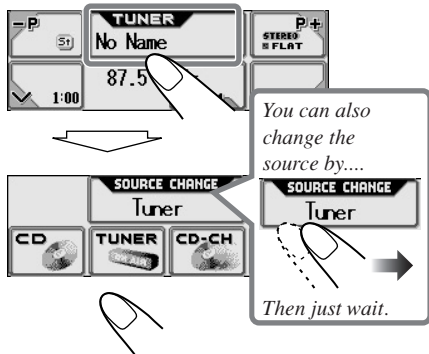
The Operation screen for last selected source is recalled.



## 3 Adjust the volume

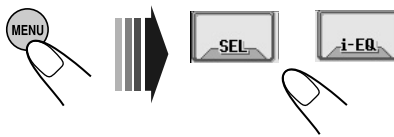


## 2 Select the source



Select the source.

## 4 Adjust the sound



- For details, see pages 18 to 20.

**When operating the touch panel**  
Make sure to touch the area inside the key icon boundary, but not on the boundary.

### Main touch panels used in this section

Source Selection screen (KD-AR5000)



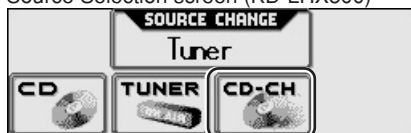
Main Menu



Not displayed for "SIRIUS"

Not displayed for "LINE-IN" or "SIRIUS"

Source Selection screen (KD-LHX500)



\* What appears changes depending on the "Ext Input" setting (see page 31).  
KD-AR5000: CD-CH/SIRIUS  
KD-LHX500: CD-CH/LINE-IN/SIRIUS



- To return to the previous screen, press "BACK" (if shown). See also page 46.

### What information is shown on the touch panel

The following information are shown commonly for all sources.

- If you press DISP on the control panel, the touch panel will show the different information or different screens. (Details about this will be explained later separately for each source.)



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

ATT



To restore the sound, press it again.

### To turn off the power:

Hold



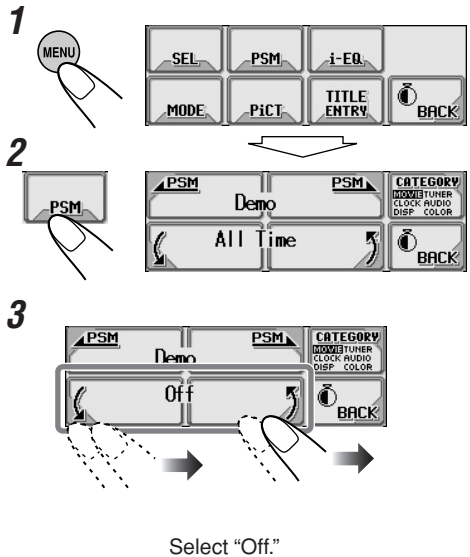
### CAUTION on Volume Setting:

Discs produce very little noise compared with other sources. If the volume level is adjusted for the tuner, for example, the speakers may be damaged by the sudden increase in the output level. Therefore, lower the volume before playing a disc and adjust it as required during playback.

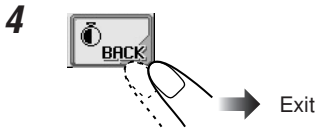
### Canceling the display demonstration

When shipped from the factory, display demonstration has been activated, and starts automatically when no operations are done for about 20 seconds.

To cancel the display demonstration, follow the procedure below:



To be continued...

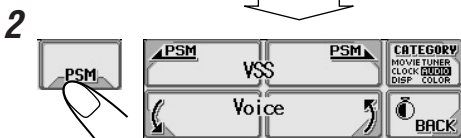
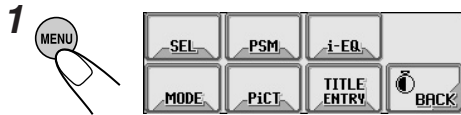


To activate the display demonstration, repeat the same procedure and select any one other than “Off” in step 3.

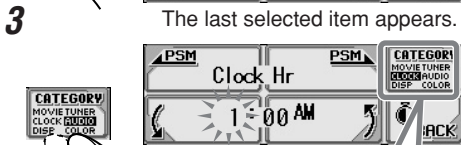
- For more details, see “To show the display demonstration” on page 29.

## Setting the clock

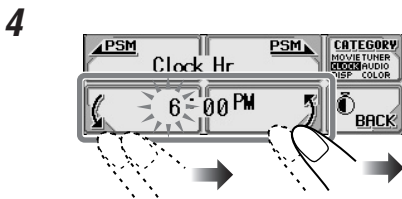
You can also set the clock system to 24 hours or 12 hours.



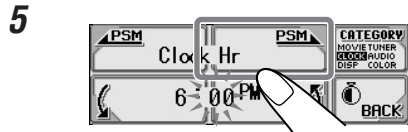
The last selected item appears.



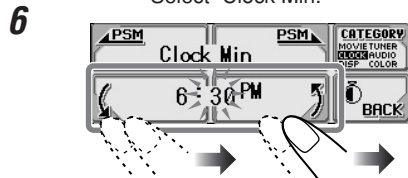
Select “CLOCK.”  
Now “Clock Hr” setting appears.



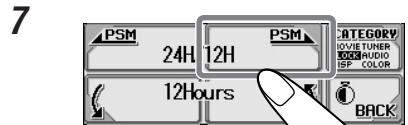
Adjust the hour.



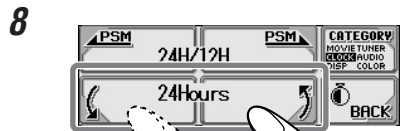
Select “Clock Min.”



Adjust the minute.



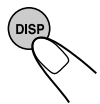
Select “24H/12H.”



Select “24Hours” or “12Hours.”

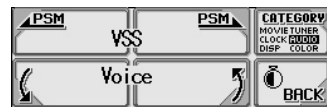


To check the current clock time when the unit is turned off...



## To change the voice support system

You can select either “Beep” or “Voice” for the voice support system (VSS).



Furthermore, if you select “Voice,” you can select the language—English, Spanish, or French.

To change them, see pages 30 and 31.



# Radio Operations

## Listening to the radio

### 1 Select the Tuner

You can also change the source by...

Then just wait.

Select "TUNER."

### 2 Select the band (FM/AM)

This receiver has three FM bands (FM1, FM2, FM3). You can use any one of them to listen to an FM broadcast.

### 3 Start searching for a station

"Auto Search" begins.  
When a station is received, searching stops.

To stop searching, press the same icon.

#### To tune in to a station manually

In step 3 above...

Activate "Manual Search."

Select station frequencies.

## Main touch panels used in this section

Tuner Operation screen

Tuner Mode Menu

Main Menu

Preset Station List\*1

Appears only for FM.

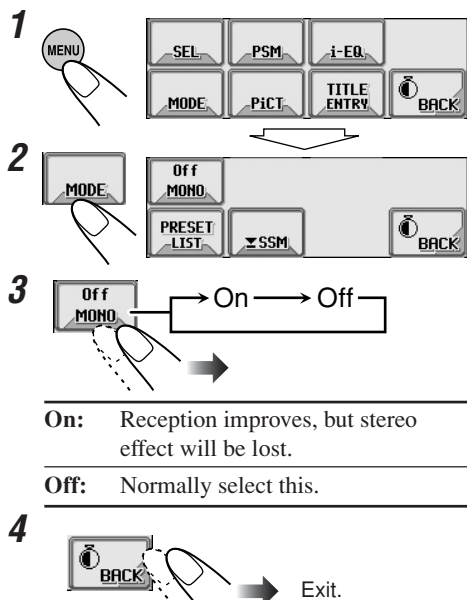
Appears only for FM.

• To return to the previous screen, press "BACK" (if shown).

- Press to change the FM band (1→2→3→...).
- Hold to change the FM band (3→2→1→...).

\*1 The lists show either the station frequency or assigned name (the first 8 characters, see page 35).

When an FM stereo broadcast is hard to receive:



**On:** Reception improves, but stereo effect will be lost.

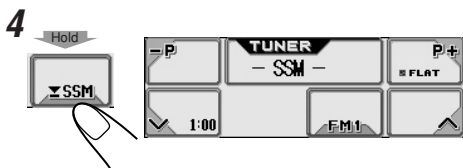
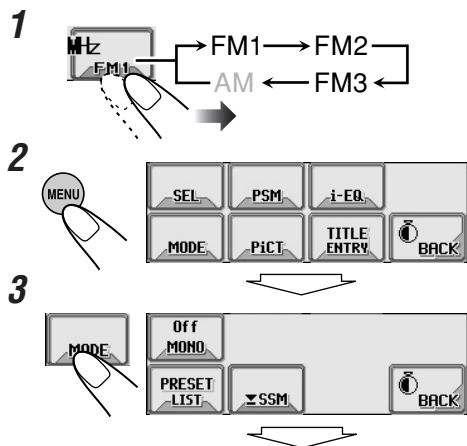
**Off:** Normally select this.

## Storing stations in memory

You can preset 6 stations for each band.

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

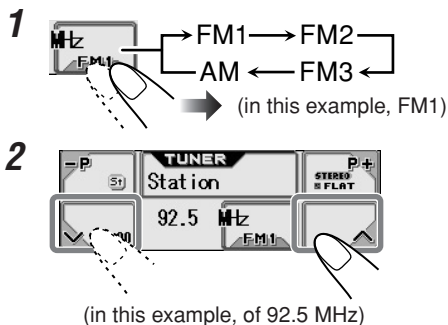
• This is only for FM bands.



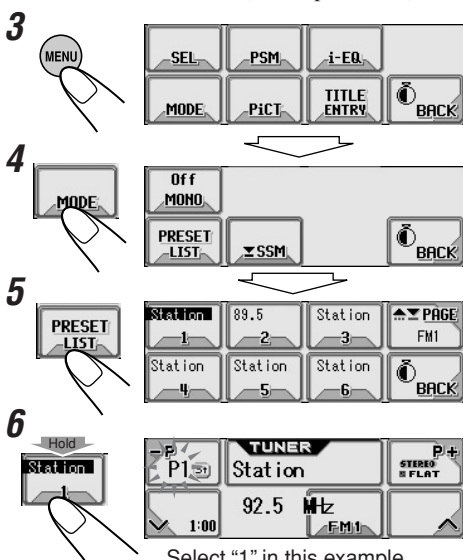
Local FM stations with the strongest signals are searched and stored automatically in the selected FM band.

### Manual presetting

Ex. Storing an FM station of 92.5 MHz into the preset number 1 of the FM1 band.

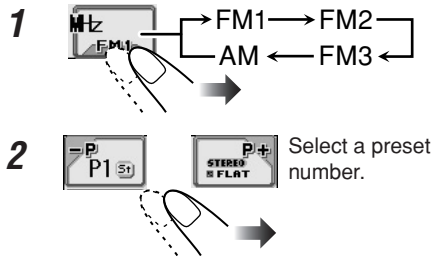


• Holding **P+** or **P-** on the Tuner Operation screen can also display the Preset Station List (see step 5 below).



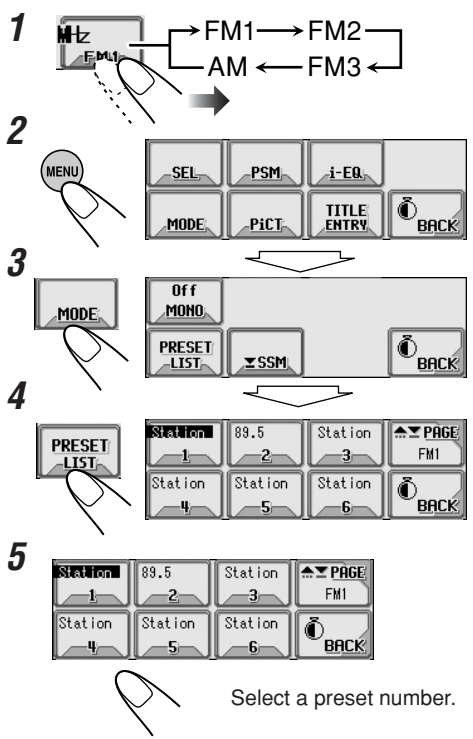
Select "1" in this example.

## Tuning in to a preset station

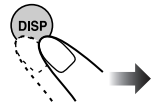


### To select a preset station using the Preset Station List

• Holding **P+** or **-P** on the Tuner Operation screen can also display the Preset Station List.



## Changing the display pattern



**Tuner Operation screen**

Station name if assigned

Preset number if any      Lights while receiving an FM stereo program

Clock time is enlarged.

Audio Level Meter\* (see page 30)

Graphic screen\*  
(Appears only after you have download a file, see page 25)

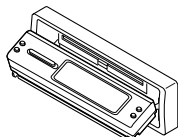
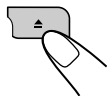
Goes back to the Tuner Operation screen.

\* These screens will be temporarily canceled when you operate the unit.

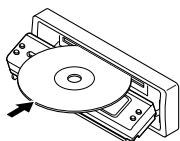
# Basic Disc Operations

## 1 Open the control panel

The unit turns on, then...

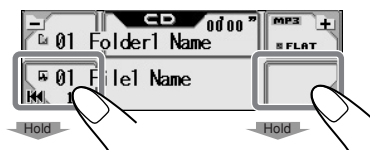


## 2 Insert a disc

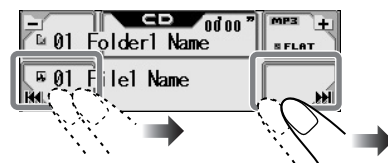


The unit draws the disc, the control panel closes then goes back to the previous position (see page 36), and playback starts automatically.

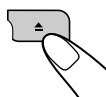
To fast-forward or reverse the track:



To go to the next or previous tracks:



To stop play and eject the disc:



To return the control panel to its previous position, press it again.

Do not use the following discs:

Warped disc



Sticker



Sticker residue



Disc with stick-on label

### Main touch panels used in this section

CD/CD Text Operation screen



MP3 Operation screen



WMA Operation screen

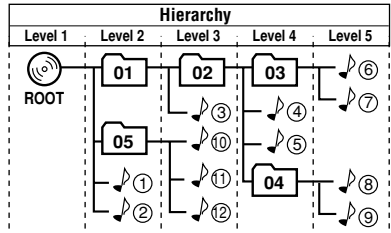


- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

### About MP3 and WMA discs

MP3 and WMA (Windows Media® Audio) “tracks” (words “file” and “track” are used interchangeably) are recorded in “folders.” “Root” is similar to the root of a tree. Every track and folder can be linked to and be accessed from the root.

- When an MP3 or a WMA folder includes an image <jll> file edited by Image Converter (Wide)—supplied in the CD-ROM, you can show the image on the display while the tracks in the folder are played back. (See pages 29 and 47 for details.)



- 01 : Folder with its play order
- : MP3/WMA track with its play order

#### • Display indications when inserting an audio CD or a CD Text:



Track name\*1      Disc name\*2

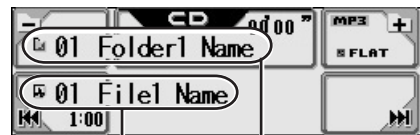
\*1 Appear only for CD Texts. (“No Name” appears if no name is recorded).

\*2 Appear for CD Texts and CDs if it has been assigned. (“No Name” appears if no name is recorded or assigned).

#### • Display indications when inserting an MP3 or a WMA disc



Total track number      Total folder number      Disc type



Current track\*3      Current folder\*3

\*3 If “Tag” is set to “On” (see page 30), ID3 tag information will appear on the display if the disc has an ID3 tag.

The album name/performer with (disc) indicator appears on the display instead of the folder name; while track title with (track) indicator appears instead of the track name.

#### CAUTIONS:

- Do not insert 8 cm (3-3/16”) discs (single CDs) into the loading slot. (Such discs cannot be ejected.)
- Do not insert any disc of unusual shape—like a heart or flower; otherwise, it will cause a malfunction.
- Do not expose discs to direct sunlight or any heat source or place them in a place subject to high temperature and humidity. Do not leave them in a car.

# Advanced Disc Operations

## Locating a track or folder on a disc

To locate a folder on the screen (only for MP3/WMA discs)

- Holding **+** or **-** on the Disc Operation screen can also display the Folder List.

- |      |      |             |      |
|------|------|-------------|------|
| SEL  | PSM  | i-EQ        |      |
| MODE | PICT | TITLE ENTRY | BACK |
- |             |            |            |      |
|-------------|------------|------------|------|
| Off INTRO   | Off REPEAT | Off RANDOM | ♪±10 |
| FOLDER LIST | FILE LIST  | BACK       |      |
- |         |         |         |              |
|---------|---------|---------|--------------|
| Folder1 | Folder2 | Folder3 | ▲PAGE Folder |
| Folder4 | Folder5 | Folder6 | BACK         |

The current folder is highlighted.
- |         |         |         |              |
|---------|---------|---------|--------------|
| Folder1 | Folder2 | Folder3 | ▲PAGE Folder |
| Folder4 | Folder5 | Folder6 | BACK         |

Select a folder number.

- If you select the currently selected folder (highlighted on the screen), the File List screen (see step 3 below), then you can select a track to start with.

To locate a track on the screen (only for MP3/WMA discs)

- |      |      |             |      |
|------|------|-------------|------|
| SEL  | PSM  | i-EQ        |      |
| MODE | PICT | TITLE ENTRY | BACK |
- |             |            |            |      |
|-------------|------------|------------|------|
| Off INTRO   | Off REPEAT | Off RANDOM | ♪±10 |
| FOLDER LIST | FILE LIST  | BACK       |      |
- |          |          |          |            |
|----------|----------|----------|------------|
| File1 Na | File2 Na | File3 Na | ▲PAGE File |
| File4 Na | File5 Na | File6 Na | BACK       |

The current track is highlighted.
- |          |          |          |            |
|----------|----------|----------|------------|
| File1 Na | File2 Na | File3 Na | ▲PAGE File |
| File4 Na | File5 Na | File6 Na | BACK       |

Select a track number.

### Main touch panels used in this section

Disc Mode Menu screen



Appears only for MP3/WMA.

Skip 10 screen



- To return to the previous screen, press "BACK" (if shown).

Folder List screen (only for MP3/WMA)\*1



File (Track) List screen (only for MP3/WMA)\*1

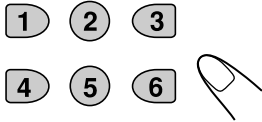


\*1 The lists show the folder/file names actually recorded (the first 8 characters).

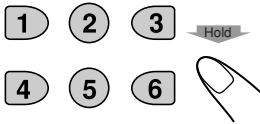
\*2 Press to go to the next list; hold to go back to the previous list.

### To locate a track (or folder) directly using the remote controller

- To select a track (or folder for MP3 and WMA discs) number from 1 – 6:



- To select a track (or folder for MP3 and WMA discs) number from 7 (1) – 12 (6):



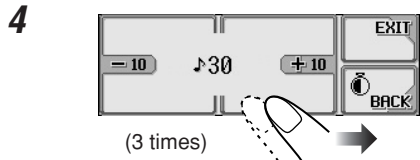
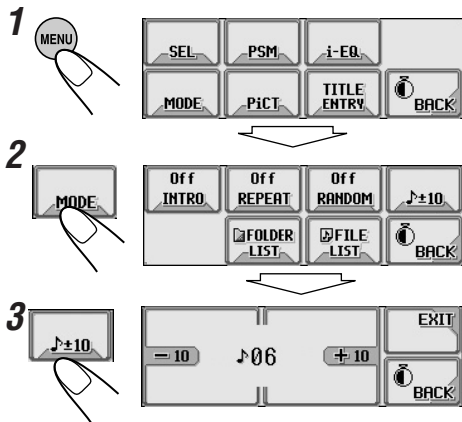
To directly select the folders using the number button(s), it is required that folders be assigned 2 digit numbers at the beginning of their folder names—01, 02, 03, and so on.

### To skip 10 tracks at a time

You can quickly reach a desired track on a disc including many tracks.

- For MP3 and WMA, you can select only a track within the current folder.

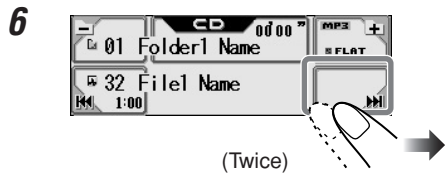
Ex. To select track number 32 while playing track number 6



First time you press “+10” or “-10,” the track skips to the nearest higher or lower track with a track number of multiple ten (ex. 10th, 20th, 30th).

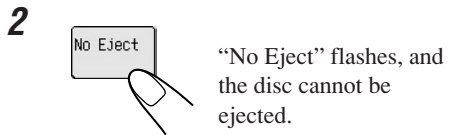
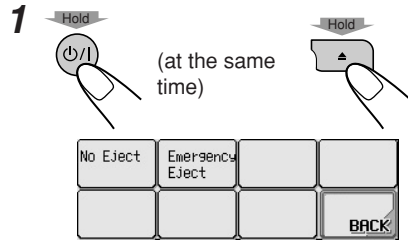
Then, each time you press the button, you can skip 10 tracks.

- After the last track, the first track will be selected, and vice versa.



### Prohibiting disc ejection

You can lock a disc in the loading slot.



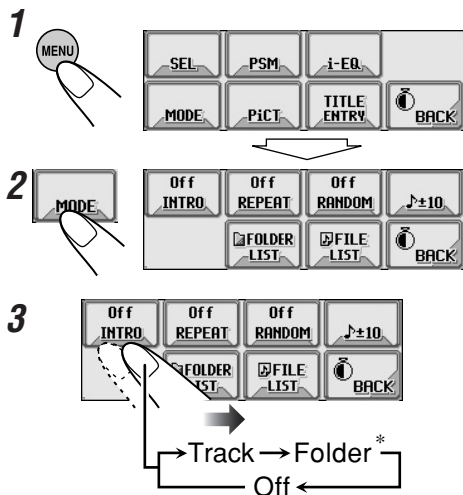
To cancel the prohibition, repeat the same procedure (press “Eject OK” in step 2). “Eject OK” flashes.

## Selecting playback modes

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

### To play back only intros (Intro Scan)

You can play back the first 15 seconds of each track sequentially.



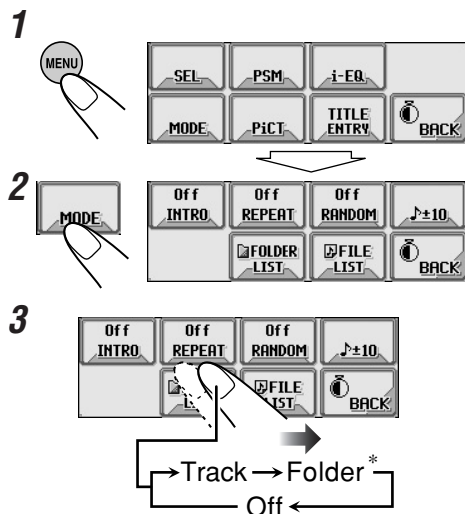
Mode	Plays the beginnings of
<b>Track :</b>	All tracks of the disc. • While playing, <b>INT</b> lights up.
<b>Folder* :</b>	First tracks of all folders. • While playing, <b>INT</b> lights up.
<b>Off :</b>	Cancels Intro Play.

\* "Folder" can be selected for MP3 and WMA discs only.



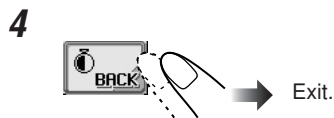
### To play back tracks repeatedly (Repeat Play)

You can repeat playback.



Mode	Plays repeatedly
<b>Track :</b>	Current track. • While playing, <b>RPT</b> lights up.
<b>Folder* :</b>	All tracks of the current folder. • While playing, <b>RPT</b> lights up.
<b>Off :</b>	Cancels Repeat Play.

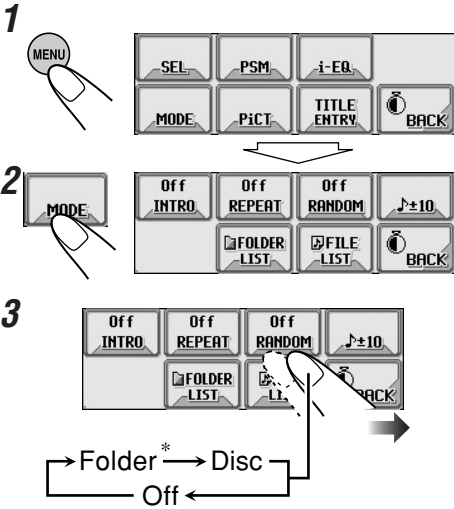
\* "Folder" can be selected for MP3 and WMA discs only.





## To play back tracks at random (Random Play)

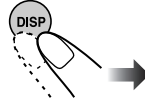
You can play back tracks at random.



Mode	Plays randomly
Folder* :	All tracks of the current folder, then moves to the next folder and so on. <ul style="list-style-type: none"> <li>While playing, <b>END</b> lights up.</li> </ul>
Disc :	All tracks on the disc. <ul style="list-style-type: none"> <li>While playing, <b>END</b> lights up.</li> </ul>
Off :	Cancels Random Play.

\* "Folder" can be selected for MP3 and WMA discs only.

## Changing the display pattern



### Disc Operation screen



Clock time is enlarged.



Audio Level Meter (see page 30)



Graphic screen  
(Appears only after you have downloaded a file, see page 25)

Goes back to the Disc Operation screen.

# Sound Adjustments

## Setting the basic sound selection menu—SEL

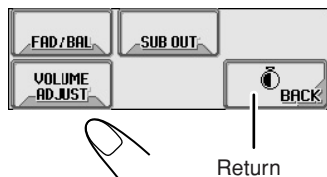
### 1 Show the Main Menu



### 2 Show the basic sound selection menu



### 3 Select a setting item



Return

### 4 Adjust the item

To adjust fader and balance:



To select the cutoff frequency and adjust the subwoofer output level:

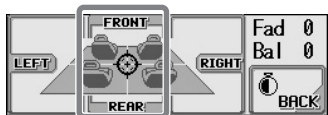


To adjust the input level of each source:

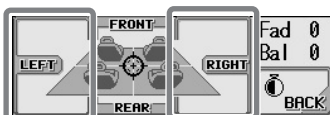


### To adjust fader and balance—FAD/BAL:

Adjust fader—speaker output balance between the front and rear speakers.



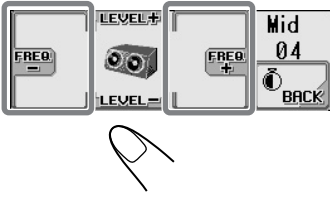
F6 (front only)  
to  
R6 (rear only)



L6 (left only)  
to  
R6 (right only)

**To adjust subwoofer output—SUB OUT:**

Select an appropriate cutoff frequency level according to the subwoofer connected.



- Low:** Frequencies higher than 55 Hz are cut off to the subwoofer.

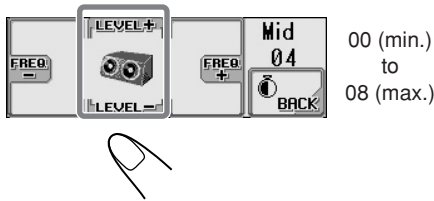
---

- Mid:** Frequencies higher than 85 Hz are cut off to the subwoofer.

---

- High:** Frequencies higher than 115 Hz are cut off to the subwoofer.

Adjust the subwoofer output level.

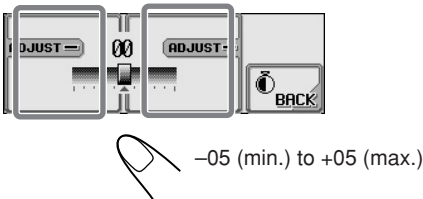


**To adjust the input level of each source—VOLUME ADJUST:**

This setting is required for each source except FM. Before making an adjustment, select an appropriate source for which you want to make an adjustment.

Once you have made an adjustment, it is memorized, and the volume level will automatically increase or decrease by adjusted level whenever you change the source.

Adjust to match the input level to the FM sound level.

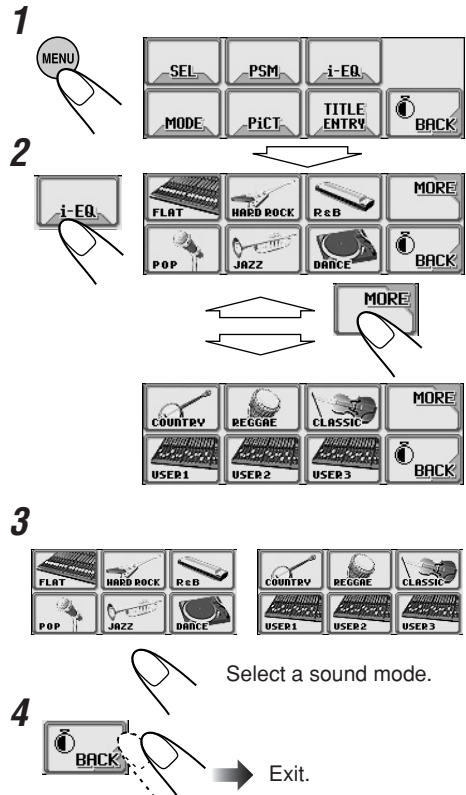


**Selecting preset sound modes (i-EQ: intelligent equalizer)**

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

Available sound modes:

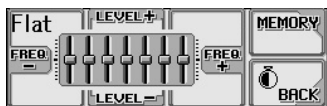
- Flat (To cancel the sound mode. No sound mode is applied)
- Hard Rock
- R & B
- Pop
- Jazz
- Dance
- Country
- Reggae
- Classic
- User 1, User 2, User 3



## Storing your own sound modes

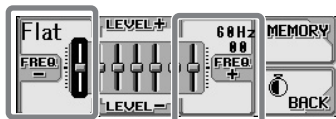
You can adjust the sound modes and store your own adjustments in memory.

- 1** Repeat steps 1 to 3 on page 19 to select a sound mode you want to adjust.



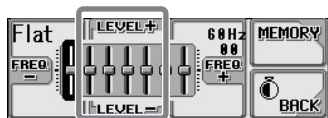
Ex. When you select “Flat”

**2**



Select the frequency band—60Hz, 150Hz, 400Hz, 1kHz, 2.4kHz, 6kHz, 12kHz.

**3**



Adjust the level of the selected band within the range of -05 to +05.

- 4** Repeat steps 2 and 3 to adjust the other frequency bands.

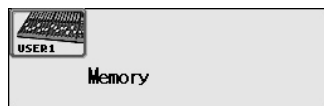
**5**



**6**



Select one of the user modes to store your adjustment (ex. when you selecting “USER1”).



For details about the preset settings of each sound mode, see below.

Sound Mode	Preset equalizing values						
	60 Hz	150 Hz	400 Hz	1 kHz	2.4 kHz	6 kHz	12 kHz
Flat	00	00	00	00	00	00	00
Hard Rock	+03	+03	+01	00	00	+02	+01
R & B	+03	+02	+02	00	+01	+01	+03
Pop	00	+02	00	00	+01	+01	+02
Jazz	+03	+02	+01	+01	+01	+03	+02
Dance	+04	+02	00	-02	-01	+01	+01
Country	+02	+01	00	00	00	+01	+02
Reggae	+03	00	00	+01	+02	+02	+03
Classic	+02	+03	+01	00	00	+02	00
User 1	00	00	00	00	00	00	00
User 2	00	00	00	00	00	00	00
User 3	00	00	00	00	00	00	00

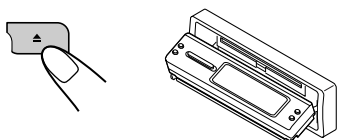
## Basic procedure

Before starting the following procedure, prepare a CD-R including still images (pictures) and animations (movies).

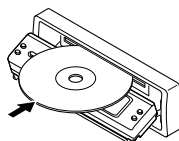
- With Image Converter (Wide) included in the supplied CD-ROM, you can create your own images and animations. (The supplied CD-ROM also includes sample images and animations.)

### 1 Open the control panel

The unit turns on, then...



### 2 Insert the prepared CD-R



The unit draws the disc, the control panel closes, then goes back to the previous position (see page 36).

- If the disc includes playable audio files, playback starts.

### 3 Show the Main Menu



### 4 Show the Picture Menu Screen



### 5 Select the item



- To download/delete the file for “Opening” screen → **OPENING** (see page 22)
- To download/delete the file for “Ending” screen → **ENDING** (see page 22)
- To download/delete the files for graphic screen → **PICTURE/MOVIE** (see pages 22 and 23)
- To delete all memorized files → **ALL FILE DELETE** (see page 25)

## Main touch panels used in this section

### Picture Menu



- To return to the previous screen, press “BACK” (if shown).

\*1 The lists show the folder/file names actually recorded (the first 8 characters).

\*2 Press to go to the next list; hold to go back to the previous list.

### Folder List screen\*1



### File List screen\*1



**IMPORTANT:**

- Refer to Image Converter PDF files included in the “Manual” folder of the supplied CD-ROM.
  - Still images (pictures) should have <jll>, and animations (movies) should have <jla> as their extension code in their file names.
  - Before you download or delete the files, observe the following:
    - Do not download a file while driving.
    - Do not turn off the ignition key of the car while downloading or deleting a file.\*
    - Do not detach the control panel while downloading or deleting a file.\*
- \* If you do it, the file download or deletion will not be done correctly.

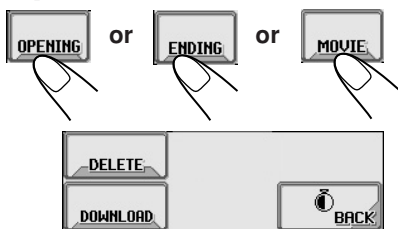
**Downloading the file for “OPENING /ENDING/MOVIE”**

- **OPENING:** Opening screen  
To download/delete an animation (consisting of 30 frames maximum) to be shown after the unit is turned on.
- **ENDING:** Ending screen  
To download/delete an animation (consisting of 30 frames maximum) to be shown before the unit is turned off.
- **MOVIE:** Graphic screen  
To download/delete an animation (consisting of 90 frames maximum) to be shown while playing a source.

**To download an animation**

- It takes a long time to download an animation. For details, see page 48.
- To activate the downloaded animation, see page 25.

**1** Repeat steps 1 to 4 on page 21, then in step 5...



**2**



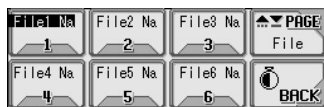
Only the folders including the <jla> files are shown.

**3**



Select a folder. (once for the currently selected; twice for the others)

**4**



Select a file.



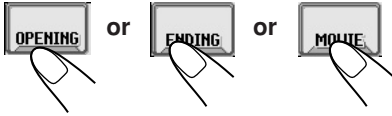
File name of the selected file appears.

**5**



To delete the stored animation:

**1** Repeat steps 1 to 4 on page 21, then in step 5...



**2**



File name of the stored file appears.

**3**



## Downloading the files for "PICTURE"

Download pictures (total of 30 still images: each one frame—see also page 48) which can be used for the graphic screen.

- To activate the downloaded animation, see page 25.

To download pictures

**1** Repeat steps 1 to 4 on page 21, then in step 5...



**2**



Only the folders including the <jll> files are shown.

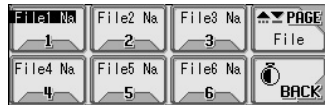
**3**



Select a folder.

(once for the currently selected; twice for the others)

**4**



Select a file.



File name of the selected file appears.

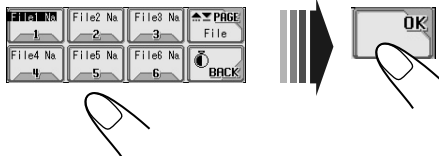
**5**



To be continued...

### 6 Download more files if you want.

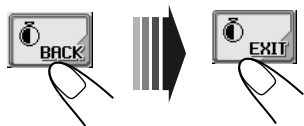
- To select a file from the same folder:



- To select a file from another folder:

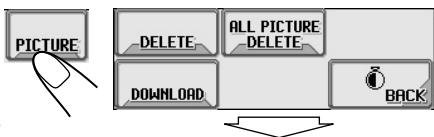


### 7 After downloading all the files you want...



To delete the stored pictures:

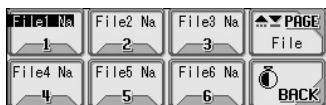
### 1 Repeat steps 1 to 4 on page 21, then in step 5...



### 2



### 3



Select a file.



File name of the selected file appears.

### 4



### 5 Delete more files if you want.



Select a file.

### 6 After deleting all the files you do not want...



To delete all the stored pictures at a time:

### 1 Repeat steps 1 to 4 on page 21, then in step 5...



### 2



### 3





## Deleting all files

You can easily delete all files—animations and pictures stored for “OPENING/ENDING/MOVIE/PICTURE.”

- 1
- 2
- 3
- 4

- 3

Select “MOVIE.”  
Now “Demo” setting appears.

- 4

Select “Opening” or “Ending.”

- 5

Select “User.”

---

**Default:** Factory-preset animation is used.

---

**User:** Your own animation is used.

---

## Activating the downloaded files

To activate the animations stored for opening and ending screens

- 1
- 2

The last selected item appears.

- 6

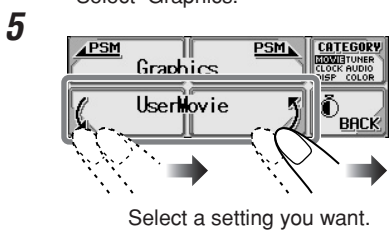
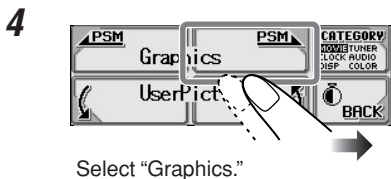
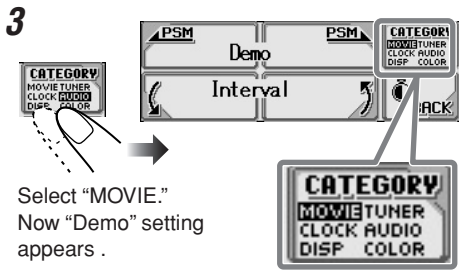
Exit.

To activate the graphic screen using either picture or movie

- 1
- 2

The last selected item appears.

To be continued...



**UserPict.:** One of your still images stored in "PICTURE" is activated for your graphic screen. (To select an image, see the next column.)

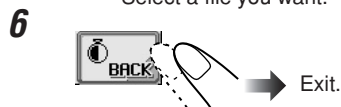
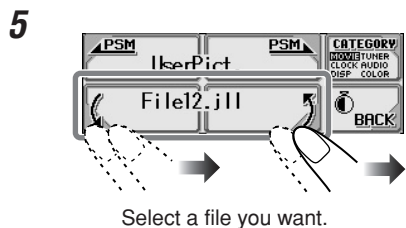
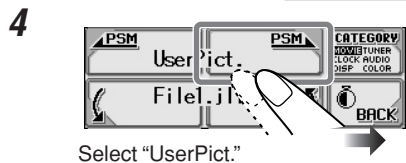
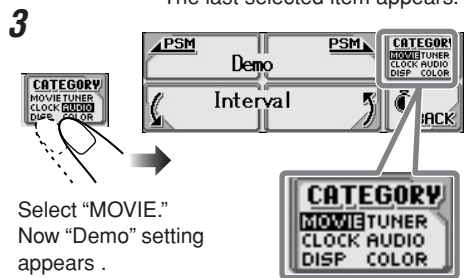
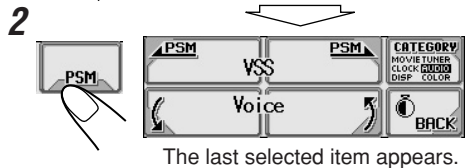
**UserMovie:** Your animation stored in "MOVIE" is activated for your graphic screen.

**UserSlide:** Your still images stored in "PICTURE" are activated and shown in sequence for your graphic screen.



**To select a still image for "UserPict."**

- If "UserPict." is not selected for "Graphics" you cannot select "UserPict." in step 4 below.



# General Settings—PSM

## Basic procedure

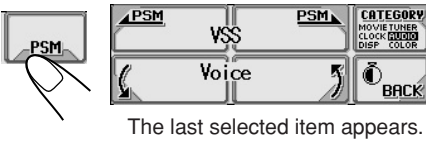
You can change the Preferred Setting Mode (PSM) items listed on the table that follows.

- The PSM items are grouped into six categories—MOVIE, CLOCK, DISP (display), TUNER, AUDIO, and COLOR.

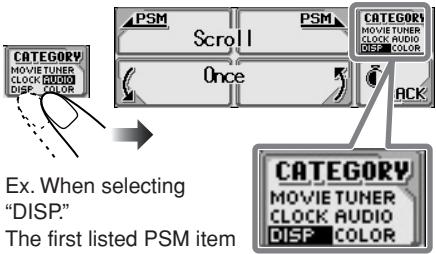
### 1 Show the Main Menu



### 2 Show the PSM setting screen

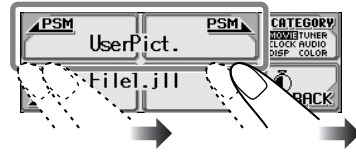


### 3 Select a PSM category

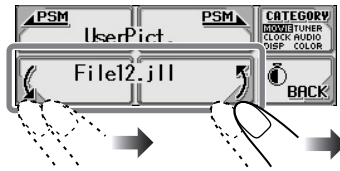


*Without selecting a PSM category, you can move to a different category by simply changing the PSM items (in step 4).*

### 4 Select a PSM item



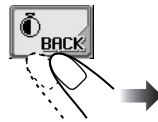
### 5 Change or adjust the setting



### 6 Change or adjust other PSM items

If necessary, repeat steps 3 to 5 to change other PSM item settings.

### 7 Exit



PSM items		Selectable settings		Initial	Pages	
MOVIE	<b>Demo</b>	Demonstration			All Time	7, 29
	<b>Graphics</b>	Graphics			UserPict.	26
	<b>KeyIn CFM</b>	Key-in confirmation	Off	On	On	29
	<b>Opening</b> *1	Opening screen	Default	User	Default	25
	<b>Ending</b> *1	Ending screen	Default	User	Default	25
	<b>UserPict.</b> *2	User picture	From the stored files		First stored	26
CLOCK	<b>Clock Hr</b>	Clock hour	1 — 12 (0 — 23)		1 (1:00AM)	8
	<b>Clock Min</b>	Clock minute	00 — 59		00(1:00AM)	8
	<b>24H/12H</b>	Clock system	12Hours	24Hours	12Hours	8
DISP	<b>Scroll</b>	Scroll mode			Once	29
	<b>Dimmer</b>	Dimmer			Auto	32
	<b>From– To</b> *3	Dimmer timer	Any hour — Any hour		6PM–7AM	32
	<b>Contrast</b>	Contrast	1 — 10		5	29
	<b>LCD Type</b>	Display type			Auto	29
	<b>Font Type</b>	Font type	1	2	1	30
	<b>Tag</b>	Tag display	Off	On	On	30
	<b>Theme</b>	Level meter			Meter 1	30
	<b>Key Info</b>	Key Information	Off	On	On	30
TUNER	<b>IF Filter</b>	Intermediate frequency filter	Wide	Auto	Auto	30
AUDIO	<b>VSS</b>	Voice support system	Beep	Voice	Voice	30
	<b>VSS Level</b>	VSS level	Off ↔ 1 ↔ 2 ↔ 3 ↔ 4		3	31
	<b>Language</b>	Language			English	31
	<b>Ext Input</b> *4	External Input	KD-AR5000: Changer      Sirius KD-LHX500: 		Changer	31
	<b>Amp Gain</b>	Amp gain control	KD-AR5000: KD-LHX500: Low PWR      High PWR		High PWR	31

PSM items		Selectable settings		Initial	Pages
<b>COLOR</b>	<b>SOURCE</b> Source	All sources		All Source	33
	<b>USER DAY (USER NIGHT)</b> User color	USER DAY	USER NIGHT	USER DAY	34
	<b>R</b> Red	00 — 11		USER DAY: 07 USER NIGHT:05	34
	<b>G</b> Green	00 — 11		USER DAY: 07 USER NIGHT:05	34
	<b>B</b> Blue	00 — 11		USER DAY: 07 USER NIGHT:05	34

\*1 Displayed only after a downloadable file is stored in memory.

\*2 Displayed only after a downloadable file is stored in memory and while selecting “UserPict.” for “Graphics.”

\*3 Displayed only when “Dimmer” is set to “Time Set.”

\*4 Displayed only when the source is not an external component.

### To show the display demonstration

If no operation is done for about 20 seconds, display demonstration starts.

- **All Time:** Display demonstration (animation) appears.
- **ImageLink:** A still image included in an MP3/WMA folder appears while playing back the tracks in the folder (see page 13).
- **Interval:** Display demonstration (animation) and playback source indication appears alternately.
- **Off:** Cancels the demonstration.

### To turn on and off the animation screens—KeyIn CFM

You can turn on and off the animation screens—opening, ending, source changing, and i-EQ selecting screens.

- **On:** An animation screens appear...
  - When you turn on or off the power,
  - When you change the sources, and
  - When you select an i-EQ.
- **Off:** Cancels the animation screens.

### To select the scroll mode—Scroll

The entire text information is shown by scrolling if it cannot be shown at a time.

- **Once:** Scrolls only once.
- **Auto:** Repeats the scroll (in 5-second intervals).
- **Off:** Cancels scroll mode.

### To adjust the display contrast level—Contrast

You can adjust the contrast to make the display clear and legible.

### To select the display illumination pattern—LCD Type

You can select the display illumination patterns.

- **Auto:** Positive pattern will be selected during the day time\*, while negative pattern will be used during the night time\*.
- **Positive:** Positive (normal) pattern of the display.
- **Negative:** Negative pattern of the display (except still images, animations, and audio level meters).

\* Depending on the “Dimmer” setting

### To select the font type used on the display—Font Type

You can select either of the two fonts (1 or 2).

### To turn the tag display on or off—Tag

An MP3 and WMA track can contain track information called “Tag” where its album name, performer, track title, etc. are recorded.

- **On:** Shows the Tag display while playing MP3 or WMA tracks.
- **Off:** Cancels the Tag display. Only the folder name and track name appear.

*For MP3 tracks only: There are two versions—ID3v1 (ID3 Tag version 1) and ID3v2 (ID3 Tag version 2). When both ID3v1 and ID3v2 are recorded, ID3v2 will be shown.*

### To select the audio level meter—Theme

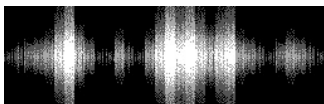
You can select the level meter.

- To show the level meter, press DISP repeatedly.

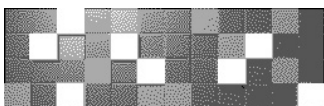
- **Meter 1:**



- **Meter 2:**



- **Meter 3:**



### To show or delete the key icon boundary on the touch panel—Key Info

Key icons have their own boundaries on the touch panel to make the operations easy.

These boundaries can be shown or deleted according to your preference.

- **On:** To show the key icon boundary.
- **Off:** To delete the key icon boundary.

*Though “Off” is selected, the key icon boundary will be shown while you are operating the touch panel. About 5 seconds after the operation, it goes off.*

### To change the FM tuner selectivity—IF Filter

In some areas, adjacent stations may interfere with each other. If this interference occurs, noise may be heard.

- **Auto:** When this type of interference occurs, this unit automatically increases the tuner selectivity so that interference noise will be reduced. (But the stereo effect will also be lost.)
- **Wide:** Subject to the interference from adjacent stations, but sound quality will not be degraded and the stereo effect will not be lost.

### To change the voice support system—VSS

You can select either “Beep” or “Voice” for the voice support system (VSS).

- **Voice:** Guidance is announced in the language you have selected (see “To select the language for the VSS—Language” on page 31) when you operate the unit.
- **Beep:** A Beep sounds when you operate the unit.

**To deactivate the VSS,** select “Off” for “VSS Level” (see page 31).

**To adjust the VSS level—VSS Level**

You can adjust the volume level of the VSS sounds.

- By selecting “Off,” you can deactivate the VSS.

**To select the language for the VSS —Language**

You can select the language for the voice support system—English, Spanish (Español), or French (Français).

- The indications on the display will also be shown in the selected language.

**To select the external component to use —Ext Input**

To use the external component connected to the CD changer jack as the playback source through this unit, you need to select which component to use.

- **Changer:** To use a JVC CD changer.
- **Line In:** To use any external component except the other two (selectable only for KD-LHX500).
- **Sirius:** To use a JVC SIRIUS Radio.

**To select the amplifier gain control—Amp Gain**

You can change the maximum volume level of this unit. When the maximum power of the speakers is less than 50 W, select “Low PWR” to prevent them from being damaged.

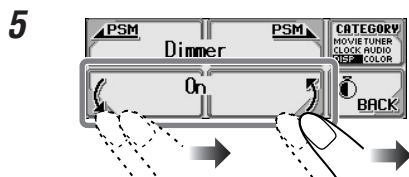
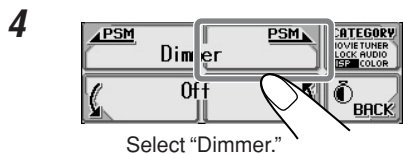
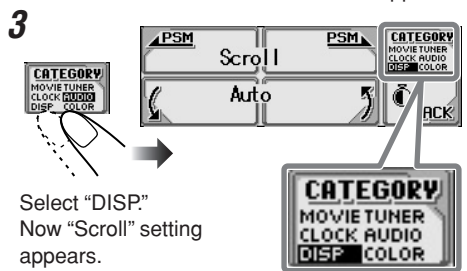
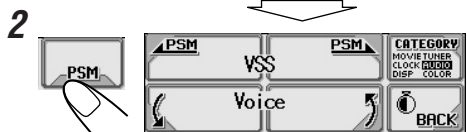
- **Low PWR:** You can adjust the volume level from “Volume 00” to “Volume 30.”
- **High PWR:** You can adjust the volume level from “Volume 00” to “Volume 50.”
- **Off:** Only for KD-AR5000: Deactivates the built-in amplifier. (Sounds come out only from external amplifiers connected to Line Out plugs.)

You can use the following table to keep memo of your own PSM settings.

MOVIE	Demo			
	Graphics			
	KeyIn CFM			
	Opening			
	Ending			
	UserPict.			
CLOCK	Clock Hr			
	Clock Min			
	24H/12H			
DISP (display)	Scroll			
	Dimmer			
	From– To			
	Contrast			
	LCD Type			
	Font Type			
	Tag			
	Theme			
TUNER	Key Info			
	IF Filter			
AUDIO	VSS			
	VSS Level			
	Language			
	Ext Input			
	Amp Gain			
COLOR	SOURCE	All Source		
		CD		
		Changer		
		Line In		
		SIRIUS		
		FM		
		AM		
	USER DAY	R	G	B
USER NIGHT	R	G	B	

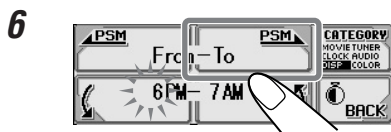
## Selecting the dimmer mode

You can dim the display at night automatically or as you set the timer.

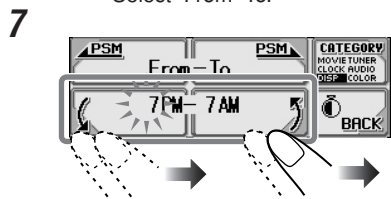


Select one of the following.

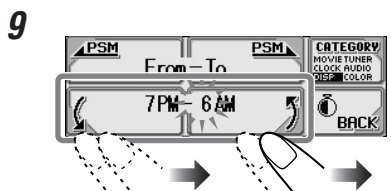
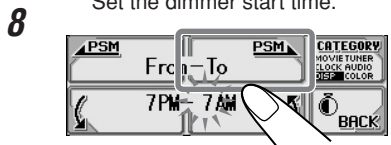
- 
- Auto:** Activates Auto Dimmer.  
 ➔ Go to step 10.  
 • When you turn on the car head lights, the display dims.
- 
- Off:** Cancels Auto Dimmer.  
 ➔ Go to step 10.
- 
- On:** Always dims the display.  
 ➔ Go to step 10.
- 
- Time Set:** Set the timer for dimmer.  
 ➔ Go to step 6.
- 



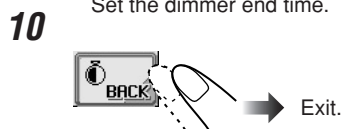
Select "From-To."



Set the dimmer start time.



Set the dimmer end time.

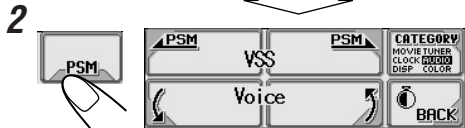
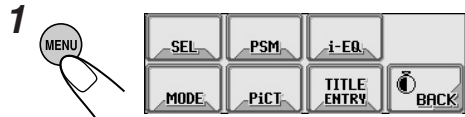




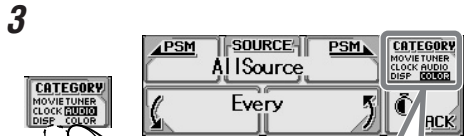
# Changing the display color

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

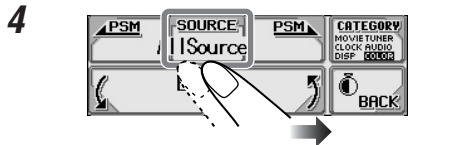
## Setting the desired color for the source



The last selected item appears.



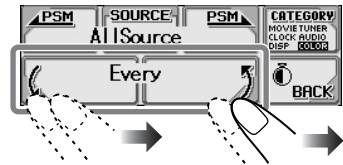
Select "COLOR."  
Now "SOURCE" setting appears.



Select the source to which you apply the color.

- When you select "All Source," you can apply the same color to all sources.

**5**



Select the color.

Every\*<sup>1</sup> ⇄ Aqua ⇄ Sky ⇄ Sea ⇄  
Leaves ⇄ Grass ⇄ Apple ⇄ Rose ⇄  
Amber ⇄ Honey ⇄ Violet ⇄ Grape ⇄  
Pale ⇄ User\*<sup>2</sup> ⇄  
(back to the beginning)

\*<sup>1</sup> When you select "Every," the color changes every 2 seconds (changing to every color listed above except "User").

\*<sup>2</sup> When you select "User," the user-edited colors—"USER DAY" and "USER NIGHT" will be applied. (See page 34.)

**6**

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

**7**



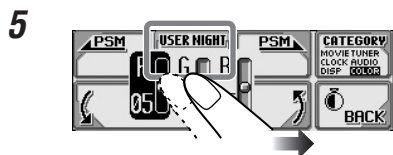
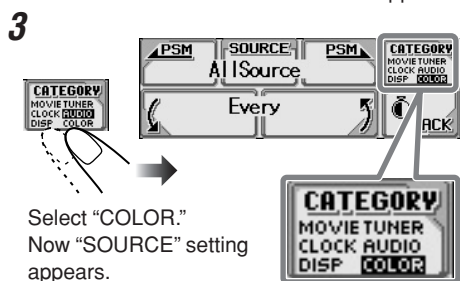
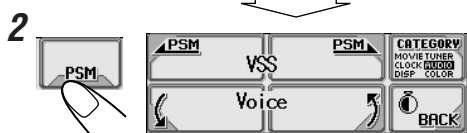
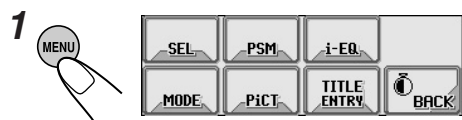
Exit.

### Creating your own color—User

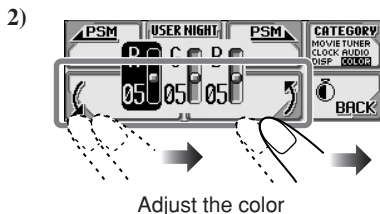
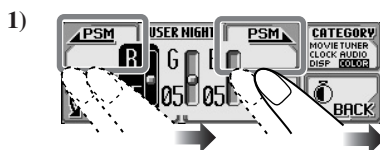
You can create your own colors—“USER DAY” and “USER NIGHT,” and select them for the display color.

- **USER DAY:** Can be used as your user color during the day time\*.
- **USER NIGHT:** Can be used as your user color during the night time\*.

\* Depending on the “Dimmer” setting



### 6 Adjust the selected user color.



3) Repeat steps 1) and 2) to adjust the other primary colors.

### 7 Repeat steps 5 and 6 to adjust the other user color—“USER DAY” or “USER NIGHT.”

### 8 After adjustment is over...



# Other Main Functions

## Assigning titles to the sources

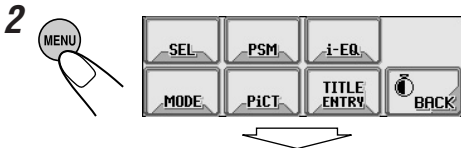
You can assign titles to station 30 frequencies, 40 CDs (both in this unit and in the CD changer), and the external component.

Source	Maximum number
Station frequencies:	10 characters
CDs:	32 characters
External component:	8 characters

- You cannot assign a title to CD Text, MP3, and WMA discs.
- For available characters, see page 48.

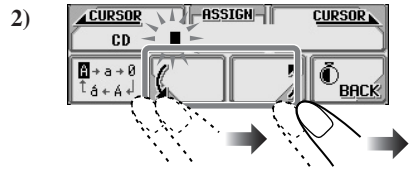
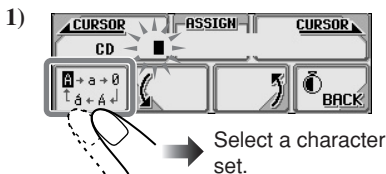
### 1 Prepare the source.

- **For FM/AM station frequencies:** Change “FM” or “AM,” then select a station frequency.
- **For a CD in this unit:** Insert a CD.
- **For CDs in the CD changer:** Select “CD-CH,” then select a disc number.

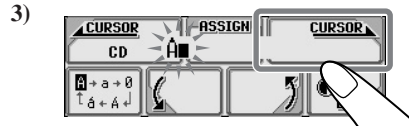


Ex. When you have selected “CD” and assign a title to the loaded disc

### 4 Assign a title.



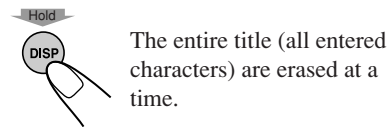
Select a character.



Move to the next character position.

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

#### To erase the characters....



### 5

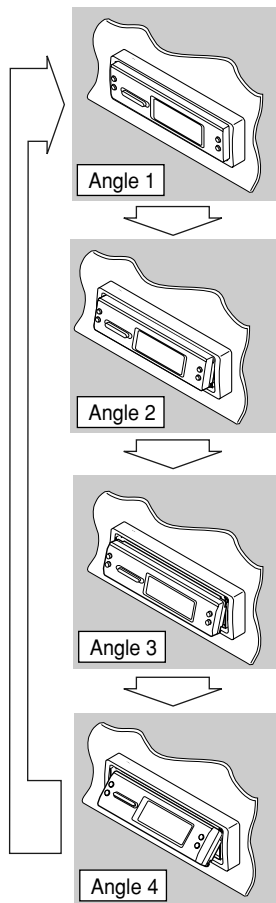


## Changing the control panel angle

You can change the angle of the control panel.



On the control panel      On the remote controller



### CAUTION:

NEVER insert your finger in between the control panel and the unit, as it may get caught or hurt.

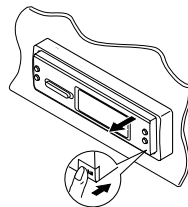
## Detaching the control panel

- When detaching and attaching the control panel, be careful not to damage the connectors.

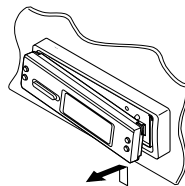
### Detaching the control panel

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

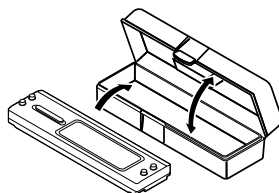
1



2

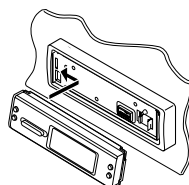


3

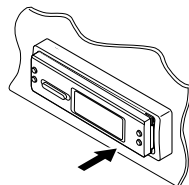


### Attaching the control panel

1



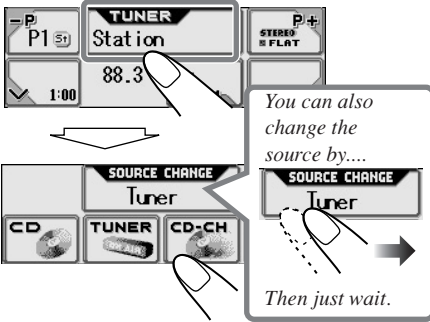
2



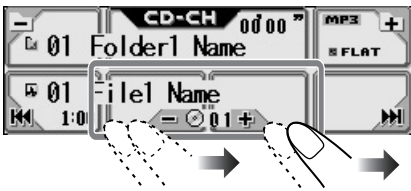
# Basic CD Changer Operations

With JVC MP3-compatible CD changer connected, you can play back your original CD-Rs and CD-RWs recorded either in audio CD format or in MP3 format.

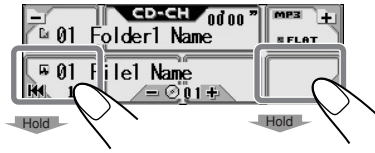
## 1 Select CD changer



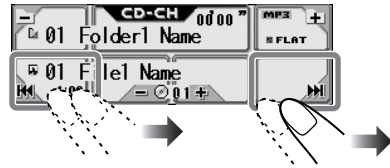
## 2 Select a disc



### To fast-forward or reverse the track:

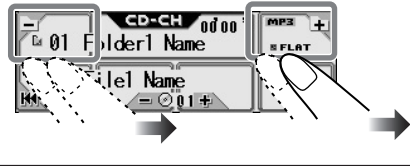


### To go to the next or previous tracks:



### To go to the next or previous folders:

For MP3 discs only:



### Main touch panels used in this section

CD Changer Operation screen: CD/CD Text



CD Changer Operation screen: MP3



- Display indications when the current disc is an audio CD or a CD Text:



Track name\*<sup>1</sup>

Disc name\*<sup>2</sup>

\*<sup>1</sup> Appear only for CD Texts. ("No Name" appears if no name is recorded).

\*<sup>2</sup> Appear for CD Texts and CDs if it has been assigned. ("No Name" appears if no name is recorded or assigned).



- Display indications when the current disc is an MP3 disc



Current track\*<sup>3</sup>

Current folder\*<sup>3</sup>

\*<sup>3</sup> If "Tag" is set to "On" (see page 30), ID3 tag information will appear on the display if the disc has an ID3 tag.

The album name/performer with  (disc) indicator appears on the display instead of the folder name; while track title with  (track) indicator appears instead of the track name.

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

- You can also connect the 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.

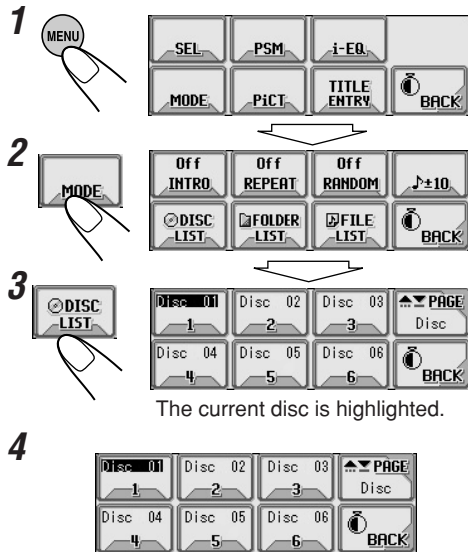
### Before operating your CD changer:

- Refer also to the Instructions supplied with your CD changer.
- You cannot control and play any WMA disc in the CD changer.
- If no discs are in the magazine of the CD changer or the discs are inserted upside down, "No Disc" will appear. If this happens, remove the magazine and set the discs correctly.
- If no magazine is loaded in the CD changer, "No Magazine" appears. If this happens, insert the magazine in the CD changer.

# Advanced CD Changer Operations

## Locating a disc

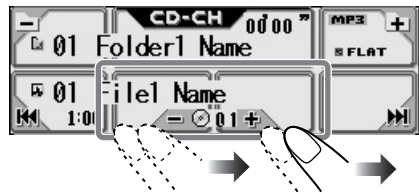
To locate a disc



The current disc is highlighted.

Select a disc.

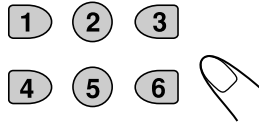
You can also select a disc...



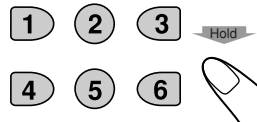
- If you hold the icon, the Disc List will appear on the display.

## When using the remote controller:

- To select a disc number 1 – 6:



- To select a disc number from 7 (1) – 12 (6):



## Main touch panels used in this section

### CD Changer Mode screen

Works only when JVC MP3 compatible CD changer (CH-X1500) is connected.



Appears only for MP3 discs.

### Disc List screen\*1



\*1 The lists show the disc names actually recorded or assigned (the first 8 characters, see page 35).

\*2 Press to go to the next list; hold to go back to the previous list.

- To return to the previous screen, press "BACK" (if shown)

Main touch panels used in this section

Folder List screen (only for MP3)\*1



File (Track) List screen (only for MP3)\*1



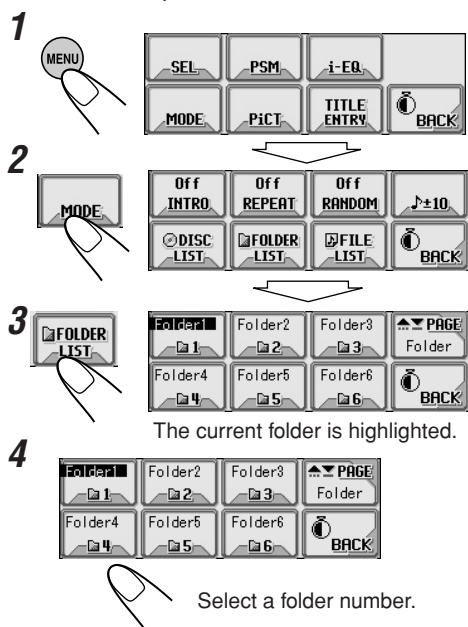
- To return to the previous screen, press "BACK" (if shown)

\*1 The lists show the folder/file names actually recorded (the first 8 characters).

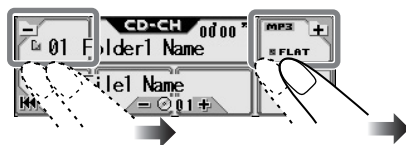
\*2 Press to go to the next list; hold to go back to the previous list.

Locating a track or folder on a disc

To locate a folder on the screen (only for MP3 discs)

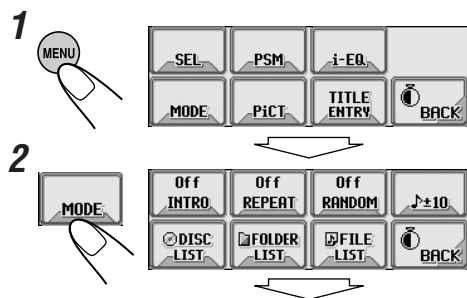


You can also select a folder...



- If you hold the icon, the Folder List will appear on the display.

To locate a track on the screen (only for MP3 discs)

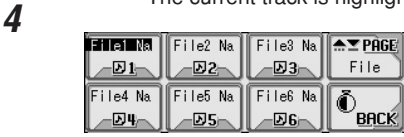


- If you select the currently selected folder (highlighted on the screen), the File List screen (see step 3 of the left column on page 41), then you can select a track to start with.

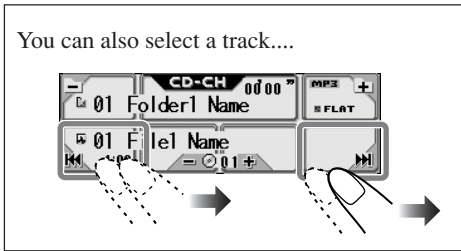




The current track is highlighted.



Select a track number.

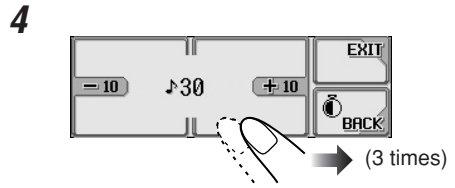
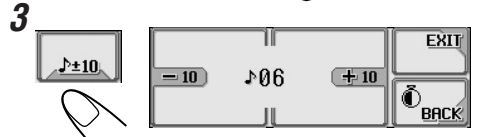
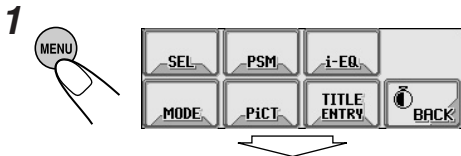


**To skip 10 tracks at a time**

You can quickly reach a desired track on a disc including many tracks.

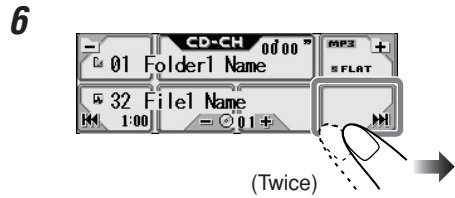
- This operation is only possible when using a JVC MP3 compatible CD changer (CH-X1500).
- For MP3 discs, you can select only a track within the current folder.

Ex. To select track number 32 while playing track number 6



First time you press “+10” or “-10,” the track skips to the nearest higher or lower track with a track number of multiple ten (ex. 10th, 20th, 30th).

Then, each time you press the button, you can skip 10 tracks.

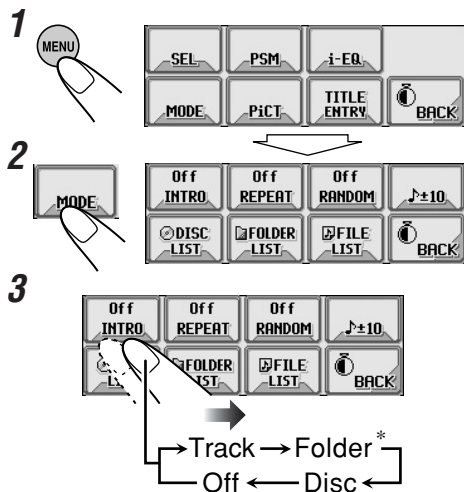


## Selecting playback modes

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

### To play back only intros (Intro Scan)

You can play back the first 15 seconds of each track sequentially.



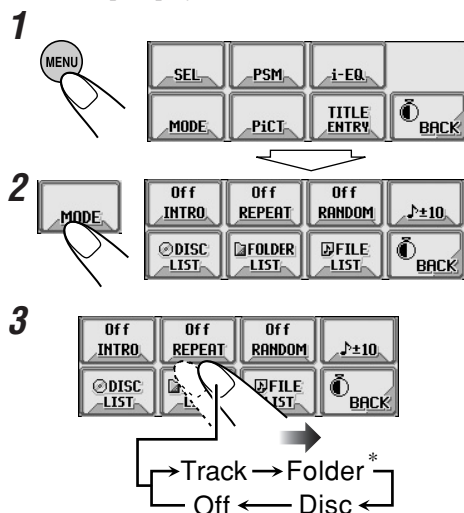
Mode	Plays the beginnings of
Track :	All tracks of the current disc.
	• While playing, <b>INT</b> lights up.
Folder* :	First tracks of all folders of the current disc.
	• While playing, <b>INT</b> lights up.
Disc :	First tracks of the all inserted discs.
	• While playing, <b>INT</b> lights up.
Off :	Cancels Intro Play.

\* "Folder" can be selected for MP3 discs only.



### To play back tracks repeatedly (Repeat Play)

You can repeat playback.



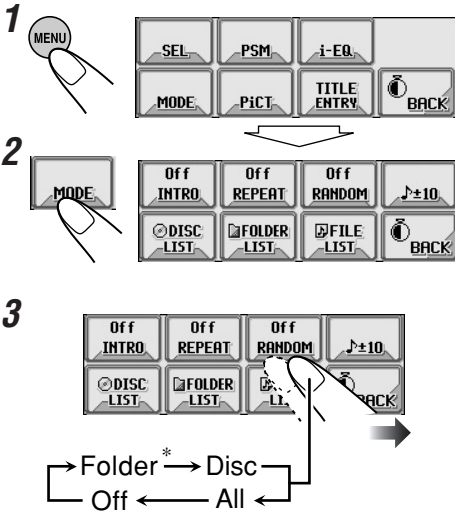
Mode	Plays repeatedly
Track :	Current track.
	• While playing, <b>RPT</b> lights up.
Folder* :	All tracks of the current folder.
	• While playing, <b>RPT</b> lights up.
Disc :	All tracks of the current disc.
	• While playing, <b>RPT</b> lights up.
Off :	Cancels Repeat Play.

\* "Folder" can be selected for MP3 discs only.



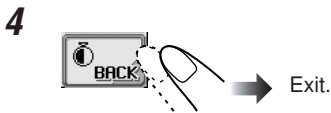
## To play back tracks at random (Random Play)

You can play back tracks at random.



Mode	Plays randomly
Folder* :	All tracks of the current folder, then moves to the next folder and so on. <ul style="list-style-type: none"> <li>While playing, <b>FRND</b> lights up.</li> </ul>
Disc :	All tracks of the current disc. <ul style="list-style-type: none"> <li>While playing, <b>FRND</b> lights up on.</li> </ul>
All :	All tracks of all discs inserted in the magazine. <ul style="list-style-type: none"> <li>While playing, <b>ALL FRND</b> lights up on.</li> </ul>
Off :	Cancels Random Play.

\* "Folder" can be selected for MP3 discs only.



## Changing the display pattern



### CD Changer Operation screen



Clock time is enlarged.



Audio Level Meter (see page 30)



Graphic screen

(Appears only after you have download a file, see page 25)

Goes back to the CD Changer Operation screen.

# External Component Operations

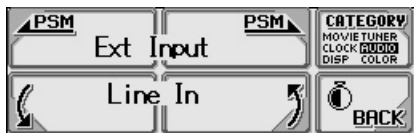
## For KD-AR5000:

You can connect an external components to the LINE IN plugs on the rear.

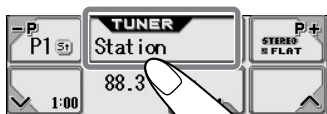
## For KD-LHX500:

You can connect the external component to the CD changer jack on the rear using the special adapter for the component (not supplied). See the Installation/Connection Manual (separate volume).

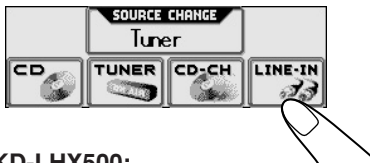
- Before operating the external component, select the “Ext Input” setting correctly (see page 31).



## 1 Select the source



### KD-AR5000:

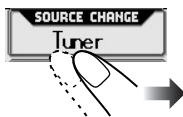


### KD-LHX500:

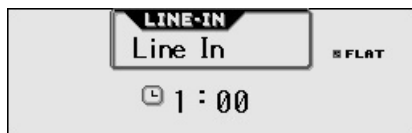


Select “LINE-IN.”

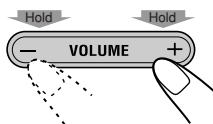
You can also change the source by...



Then just wait.



## 2 Adjust the volume

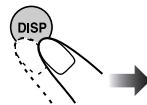


## 3 Adjust the sound



- For details, see pages 18 to 20.

### To change the display indication



To use JVC SIRIUS Radio, refer to the SIRIUS Radio Setup Manual (separate volume).

## How to clean the touch panel

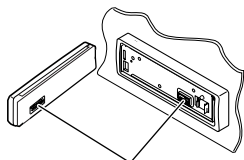
When removing stains or dust on the surface, turn off the power, then wipe with dry soft cloth.

- Be careful not to scratch the surface when wiping it.
- Do not use the following materials to clean the touch panel:
  - Wet cloth
  - Volatile substance such as benzine and thinner
  - Acid detergent, alkaline detergent, and detergent composed of organic substance
- When using chemically processed duster, read its precautions carefully.

## How to clean the connectors

Frequent detachment will deteriorate the connectors.

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



Connectors

## Moisture condensation

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

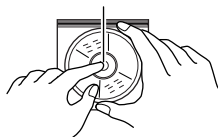
- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the 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.

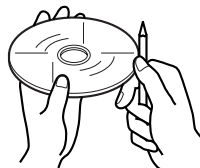
- Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.



## 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.



# More about This Receiver

## Basic Operations

### General

- The clock in the “BACK” icon on the screen works as the time countdown indicator. If no operation is done for a certain period of time, the current screen goes off, and the source operation screen resumes.

### Selecting the source

- If a disc is not loaded, you cannot select “CD” for the playback source.
- Without connecting the CD changer, you cannot select “CD-CH (CD changer)” for the playback source.
- To select the external component for the playback source, set the “Ext Input” setting correctly (page 31).

### 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.

## Tuner Operations

### Storing stations in memory

- When SSM is carried out for a band...
  - All stations previously stored for the band are erased and stations are stored newly.
  - Received stations are preset in the number buttons No.1 (lowest frequency) to No.6 (highest frequency). When SSM is over, the station stored in number button 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.
- Preset stations are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the stations again.

## Basic Disc Operations

### General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in both audio and MP3/WMA formats.
- The unit cannot read or play an MP3 track without the extension code <mp3>, and a WMA track without the extension code <wma>.
- When a disc has been already loaded, selecting “CD” for the playback source starts disc play.

### Inserting a disc

- When a disc is inserted upside down, the disc automatically ejects.
- If you keep the control panel open for about 1 minute, the control panel returns to its previous position.

### Playing a disc

- While playing an audio CD: If a title has been assigned to the audio CD (see page 35), it will be shown on the display.
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds. (The elapsed playing time also changes intermittently on the display.)

## When playing a CD-R or CD-RW

- Use only “finalized” CD-Rs or CD-RWs.
- 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 on the lens inside the unit.
  - The pickup lens inside the unit is dirty.
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use 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 humidity may cause malfunctions or damage to discs. For example,
  - Stickers or labels may shrink and warp a disc.
  - Stickers or labels may peel off so discs cannot be ejected.
  - Print on discs may get sticky.
 Read instructions or cautions about labels and printable discs carefully.

## 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.

## ImageLink

- ImageLink will not work in the following cases:
  - If no <jll> file is included in an MP3/WMA folder.
  - If Intro Scan is activated.
  - If the source is changed to another from “CD.”
  - If more than one <jll> file are included in a folder, a file with the youngest file number is used for the graphic screen.

## 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.)

## Advanced Disc Operations

### Locating a track or on a disc

- You can skip 10 tracks at a time only if there are more than 10 tracks in a disc or in a folder.

## Sound Adjustment

### General

- If you are using a two-speaker system, set the fader level to “00.”
- Subwoofer out setting takes effect only when a subwoofer is connected.
- You cannot make the input level—Volume Adjustment—of the FM stations. If the source is FM, “Fix” will appear when you try to adjust it.

### Storing your own sound modes

- If you do not want to store your current adjustment, but only to apply the adjustment to the current playback source, press “BACK” repeatedly to go back to the operation screen of the current source. Adjustment you made remains effective until you select a sound mode.

## Graphic Displays

### Downloading (or deleting) files

- You can download a file only while selecting “CD” for the playback source; on the other hand, you can delete a file while selecting any source.
- If you have already downloaded an animation for “OPENING,” “ENDING,” or “MOVIE,” downloading a new animation deletes the previously stored animation.

- It takes a long time to download an animation.
  - About 3 to 4 seconds for a still image (one frame).
  - About 1 to 2 minutes for an animation of 30 frames.
  - About 4 minutes for an animation of 90 frames.
- If a disc inserted does not include any <jll> and <jla> files, beeps sound when you try to operate the downloading procedure.
- If you try to store a 31st image for picture screen, “Picture Full” appears and you cannot start downloading. Delete unwanted files before downloading.
- If the total frame number of an animation downloaded exceeds the following number, the frames exceeding that numbers are ignored.
  - For “OPENING” and “ENDING”: 30
  - For “MOVIE”: 90

## General Settings—PSM

- “Auto Dimmer” may not work correctly on some vehicles, particularly on those having a control dial for dimming. In this case, change the “Dimmer” setting to any one other than “Auto.”
- If “LCD Type” is set to “Auto,” the display pattern will change to the “Negative” or “Positive” pattern depending on the “Dimmer” setting
- If you change the “Amp Gain” setting from “High PWR” to “Low PWR” while the volume level is set higher than “Volume 30,” the unit automatically changes the volume level to “Volume 30.”

## Other Main Functions

### Assigning titles to the sources

- When you try to assign a title to a 41st disc or to a 31st station frequency, “Name Full” appears and you cannot enter the text entry mode. Delete unwanted titles before assignment.
- When the CD changer is connected, you can assign titles to CDs in the CD changer. These titles can also be shown on the display if you insert the CDs in this unit.

### Characters shown on the display

In addition to the Roman alphabets (A – Z, a – z), the following characters will be used to show the various information on the display.

- You can also use the following characters to assign titles (see page 35).

#### Upper case

Á	À	Â	Ã	Ä
Å	Æ	Ç	Ĉ	Ć
Ç	É	È	Ê	Ë
Ĝ	Ĵ	Ĳ	Ĵ	Ĵ
Ñ	Ó	Ò	Ô	Õ
Ö	Ø	Ř	Ŕ	Š
Š	Š	Ú	Û	Û
Ü	Ý	Ž	Ž	ß
P	D	D	T	L
Í	U	ø	space	

#### Lower case

á	à	â	ã	ä
å	æ	ç	ĉ	ć
ç	é	è	ê	ë
ĝ	ĵ	ĳ	ĵ	ĵ
ñ	ó	ò	ô	õ
ö	ø	ř	ŕ	š
š	š	ú	û	ü
ý	w	y	y	ž
ž	ÿ	þ	ŋ	đ
†	!'	!'	ij	space

### Numbers and symbols

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



# Troubleshooting

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

## General

- **Main menu screen or other screens suddenly go off.**

⇒ There is a time limit for some operations. In this case, if no operation is done for a certain period, the current source operation screen resumes.

- **Sound is sometimes interrupted.**

⇒ You are driving on rough roads. Stop playback while driving on rough roads.  
⇒ Disc is scratched.

- **Sound cannot be heard from the speakers.**

⇒ Connections are incorrect.

- **“Connect Error” appears on the display.**

⇒ The control panel is not attached correctly. Remove the control panel, wipe the connector (see page 45), then attach it again.

- **“Reset P00” — “Reset P44” appears on the display.**

⇒ Something is blocking the control panel movement. Press the reset button (see page 2). If it does not work, check the installation (ex. whether screws longer than specified are used or not).

## FM/AM broadcast

- **SSM automatic presetting does not work.**

⇒ Signals are too weak. Store stations manually.

- **Static noise is generated while listening to the radio.**

⇒ The antenna is not connected firmly.

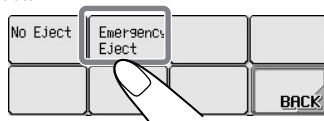
## Disc playback—CD/CD-R/CD-RW

- **Disc cannot be played back.**

⇒ Disc is inserted upside down.

- **Disc cannot be recognized (“No Disc,” “Loading Error,” or “Eject Error” flashes).**

⇒ The CD player may function incorrectly. Press **⏪/I** **ATT** and **▲** at the same time for more than 2 seconds to display the following screen, then press “Emergency Eject.”



- **Tracks on the CD-R/CD-RW cannot be skipped.**

⇒ CD-R/CD-RW is not finalized.

- **Disc cannot be ejected.**

⇒ Disc is locked. Unlock the disc (see page 15).

## Disc playback—MP3/WMA

- **Disc cannot be played back.**

⇒ MP3/WMA tracks do not have the extension code—<mp3> or <wma> in their file names.  
⇒ MP3/WMA tracks are not recorded in the format compliant with ISO 9660 Level 1, ISO 9660 Level 2, Romeo, or Joliet.

- **Noise is generated.**

⇒ The current track is not an MP3/WMA file (although it has the extension code—<mp3> or <wma>).

- **Elapsed playing time is not correct.**

⇒ This sometimes occurs during play. This is caused by how the tracks are recorded on the disc.

- **“Not Support” appears and tracks skip.**

⇒ Tracks are not encoded in an appropriate format.  
⇒ Copy-protected WMA tracks cannot be played back.

- **“No Files” appears for a while, then the disc ejects.**  
⇒ The current MP3/WMA disc does not contain any MP3/WMA tracks.
- **“No Music” appears.**  
⇒ No MP3/WMA tracks are included in the folder. Skip the folder.  
⇒ Only <jll> and/or <jla> files are recorded on the disc.
- **Correct characters are not displayed (ex. album name).**  
⇒ This unit can only display a limited number of special characters (see the tables on page 48).
- **“Opening” and “Ending” cannot be selected.**  
⇒ If “KeyIn CFM” is set to “Off,” you cannot select them.
- **You cannot select an image for “UserPict.” (“-----” appears for the file name on the lower part of the display.)**  
⇒ You can select an image only after downloading the appropriate files in memory.

### Graphics

- **Download does not seem to finish.**  
⇒ If you are trying to download an animation of many frames, it takes a quite long time (see page 48).
- **Animation does not move.**  
⇒ Temperature in the car compartment is very low—**LowTEMP** appears. Wait until the operating temperature resumes—until **LowTEMP** goes off.
- **The entire animation has not been downloaded.**  
⇒ “OPENING” and “ENDING” can only memorize 30 frames of the animation even it includes 90 frames.

### Preferred Setting Modes—PSM

- **“Movie” category settings in the PSM do not take effect.**  
⇒ Temperature in the car compartment is very low—**LowTEMP** appears. Wait until the operating temperature resumes—until **LowTEMP** goes off.

### External component operations

- **The external component you want is not selected for the playback source.**  
⇒ Select the appropriate source for the “Ext Input” setting.

### CD changer operations

- **“No Magazine” flashes.**  
⇒ Magazine is not loaded in the CD changer.
- **“No Disc” flashes.**  
⇒ No discs are in the magazine or the discs are inserted upside down.
- **“Reset 01” — “Reset 07” flashes.**  
⇒ The built-in microcomputer in the CD changer is malfunctioning. Press the reset button of the CD changer.
- **“Reset 08” flashes.**  
⇒ This unit is not connected to a CD changer correctly. Connect this unit and the CD changer correctly and press the reset button of the CD changer.

### About mistracking:

Mistracking may result from driving on extremely rough roads. This does not damage the unit and the disc, but will be annoying.

It is recommend to stop disc play while driving on such rough roads.

## 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)

Equalizer Control Range:

Frequencies: 60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 6 kHz, 12 kHz

Level:  $\pm 10$  dB

Frequency Response: 40 Hz to 20 000 Hz

Signal-to-Noise Ratio: 70 dB

Line-In Level/Impedance (KD-AR5000 only):

LINE IN: 1.5 V/20 k $\Omega$  load

Line-Out Level/Impedance:

KD-AR5000: 5.0 V/20 k $\Omega$  load (full scale)

KD-LHX500: 4.0 V/20 k $\Omega$  load (full scale)

Output Impedance: 1 k $\Omega$

Other Terminals:

SUBWOOFER OUT

Changer control

## TUNER SECTION

Frequency Range:

FM: 87.5 MHz to 107.9 MHz

AM: 530 kHz to 1 710 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: 65 dB

## CD PLAYER SECTION

Type: Compact disc player

Signal Detection System: Non-contact optical pickup (semiconductor laser)

Number of channels: 2 channels (stereo)

Frequency Response: 5 Hz to 20 000 Hz

Dynamic Range: 98 dB

Signal-to-Noise Ratio: 102 dB

Wow and Flutter: Less than measurable limit

MP3 (MPEG Audio Layer 3)

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 (32°F to 104°F)

Dimensions (W  $\times$  H  $\times$  D):

Installation Size:  
182 mm  $\times$  52 mm  $\times$  157.5 mm  
(7-3/16"  $\times$  2-1/16"  $\times$  6-1/4")

Panel Size: 188 mm  $\times$  58 mm  $\times$  13 mm  
(7-7/16"  $\times$  2-5/16"  $\times$  9/16")

Mass: 1.86 kg (4.1 lbs) (excluding accessories)

Design and specifications are subject to change without notice.

*If a kit is necessary for your car, consult your telephone directory for the nearest car audio speciality shop.*



**JVC**

**MOBILE**  
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**Having TROUBLE with operation?  
Please reset your unit**

**Refer to page of How to Reset  
Still having trouble??**

**USA ONLY**

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**JVC**

VICTOR COMPANY OF JAPAN, LIMITED



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#### ENGLISH

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

#### ESPAÑOL

Esta unidad está diseñada para funcionar con **12 V de CC, con sistemas eléctricos de masa NEGATIVA**. Si su vehículo no posee este sistema, será necesario un inversor de tensión, que puede ser adquirido en los concesionarios de JVC de equipos de audio para automóviles.

#### FRANÇAIS

Cet appareil est conçu pour fonctionner sur des sources de courant continu de **12 V à masse NEGATIVE**. Si votre véhicule n'offre pas ce type d'alimentation, il vous faut un convertisseur de tension, que vous pouvez acheter chez un revendeur d'autoradios JVC.

#### Parts list for installation and connection

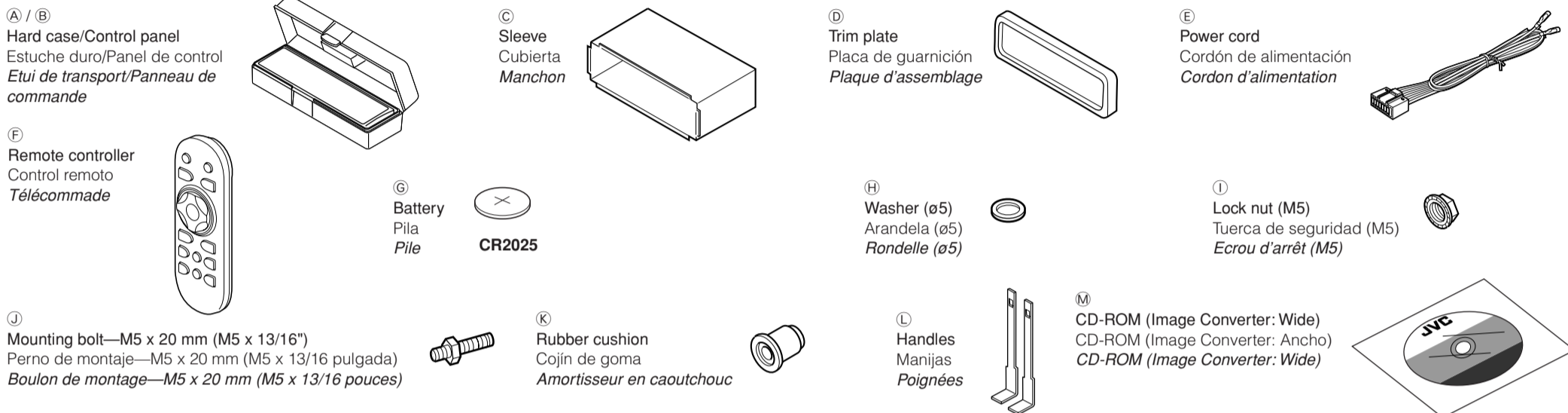
The following parts are provided with this unit. After checking them, please set them correctly.

#### Lista de piezas para instalación y conexión

Con esta unidad se suministran las siguientes piezas. Después de inspeccionarlas, colóquelas correctamente.

#### Liste des pièces pour l'installation et raccordement

Les pièces suivantes sont fournies avec cet appareil. Après vérification, veuillez les placer correctement.



### 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.

### INSTALACION (MONTAJE EN EL TABLERO DE INSTRUMENTOS)

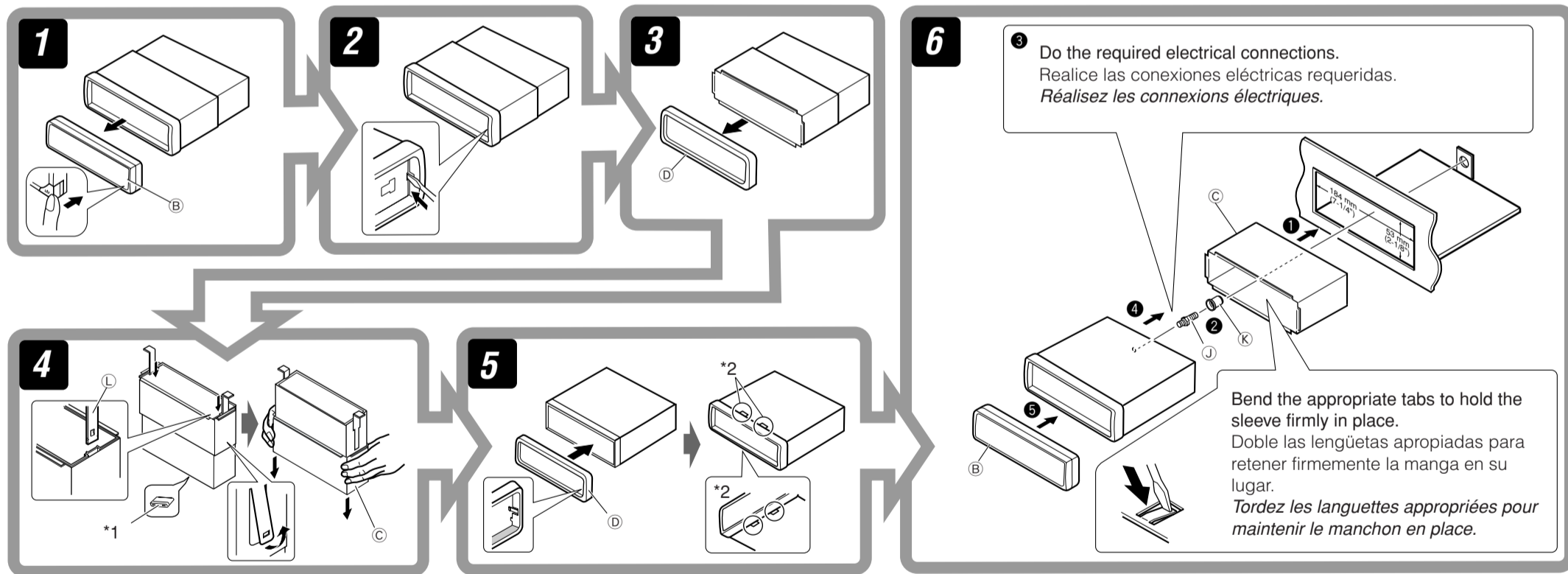
La siguiente ilustración muestra una instalación típica. Si tiene alguna pregunta o necesita información acerca de las herramientas para instalación, consulte con su concesionario de JVC de equipos de audio para automóviles o a una compañía que suministra tales herramientas.

- Si usted no está seguro de cómo instalar correctamente la unidad, hágala instalar por un técnico cualificado.

### INSTALLATION (MONTAGE DANS LE TABLEAU DE BORD)

L'illustration suivante est un exemple d'installation typique. Si vous avez des questions ou avez besoin d'information sur des kits d'installation, consulter votre revendeur d'autoradios JVC ou une compagnie d'approvisionnement.

- Si l'on n'est pas sûr de pouvoir installer correctement cet appareil, le faire installer par un technicien qualifié.



\*1 When you stand the unit, be careful not to damage the fuse on the rear.

\*1 Al poner la unidad vertical, tenga cuidado de no dañar el fusible provisto en la parte posterior.

\*1 Lorsque vous mettez l'appareil à la verticale, faire attention de ne pas endommager le fusible situé sur l'arrière.

\*2 Fit the protrusions outside the unit.

\*2 Haga encajar los salientes del exterior de la unidad.

\*2 Fixez les protubérances à l'extérieur de l'appareil.

#### Removing the unit

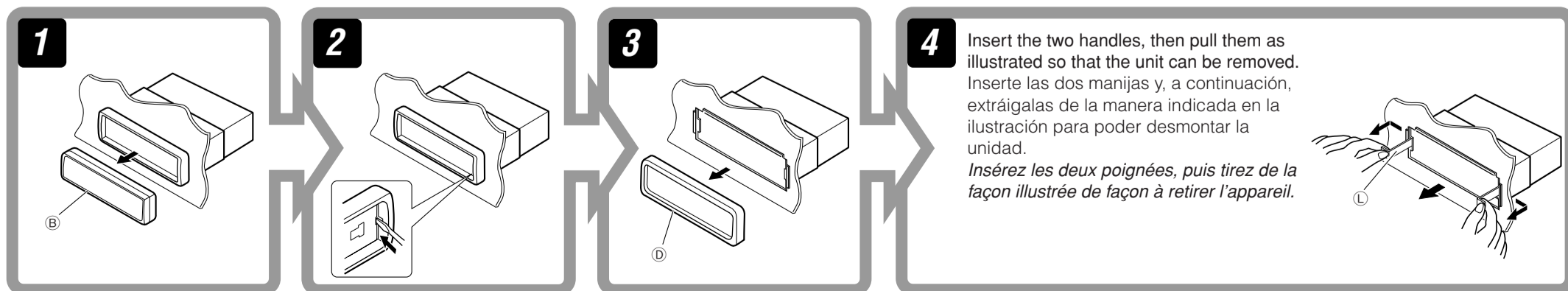
Before removing the unit, release the rear section.

#### Extracción de la unidad

Antes de extraer la unidad, libere la sección trasera.

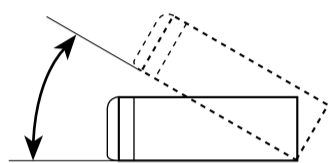
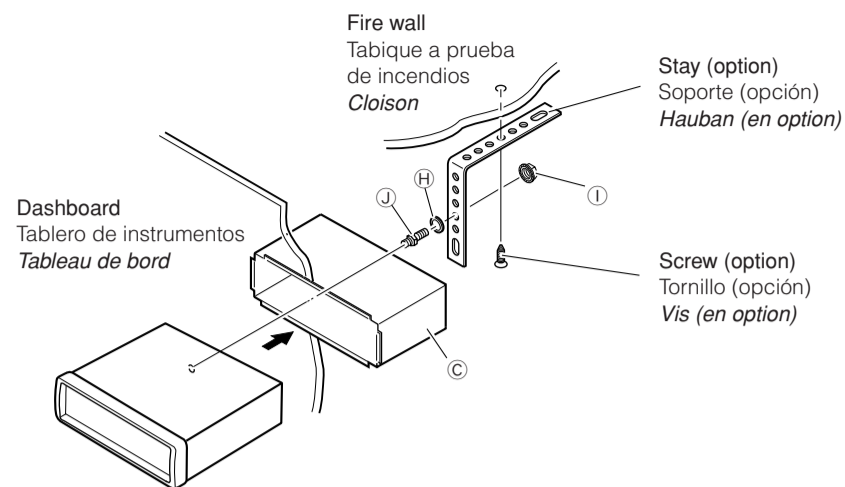
#### Retrait de l'appareil

Avant de retirer l'appareil, libérer la section arrière.





### When using the optional stay / Cuando emplea un soporte opcional / Lors de l'utilisation du hauban en option



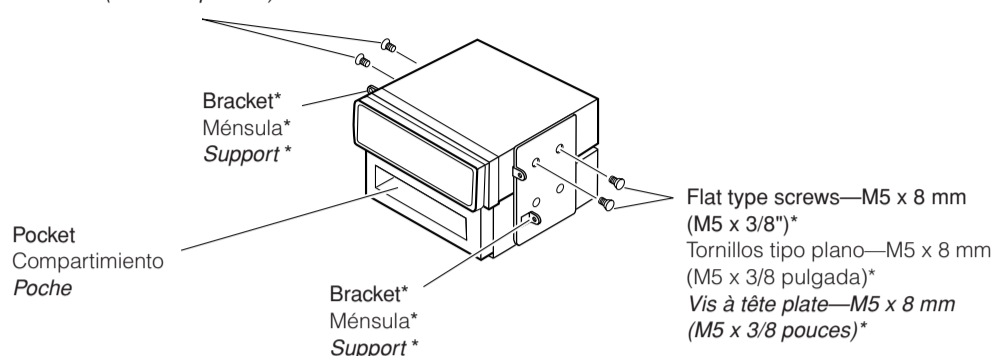
Install the unit at an angle of less than 30°.  
Instale la unidad a un ángulo de menos de 30°.  
Installez l'appareil avec un angle de moins de 30°.

### When installing the unit without using the sleeve / Instalación de la unidad sin utilizar la cubierta / Lors de l'installation de l'appareil sans utiliser de manchon

In a Toyota for example, first remove the car radio and install the unit in its place.  
En un Toyota por ejemplo, primero retire la radio del automóvil y luego instale la unidad en su lugar.  
Par exemple dans une Toyota, retirer d'abord l'autoradio et installer l'appareil à la place.

Flat type screws—M5 x 8 mm (M5 x 3/8")\*  
Tornillos tipo plano—M5 x 8 mm (M5 x 3/8 pulgada)\*  
Vis à tête plate—M5 x 8 mm (M5 x 3/8 pouces)\*

\* Not included with this unit.  
\* No suministrado con esta unidad.  
\* Non fourni avec cet appareil.



**Note** : When installing the unit on the mounting bracket, make sure to use the 8 mm (3/8")-long screws. If longer screws are used, they could damage the unit.

**Nota** : Cuando instala la unidad en la ménsula de montaje, asegúrese de utilizar los tornillos de 8 mm (3/8 pulgada) de longitud. Si se utilizan tornillos más largos, éstos pueden dañar la unidad.

**Remarque** : Lors de l'installation de l'appareil sur le support de montage, s'assurer d'utiliser des vis d'une longueur de 8 mm (3/8 pouces). Si des vis plus longues sont utilisées, elles peuvent endommager l'appareil.

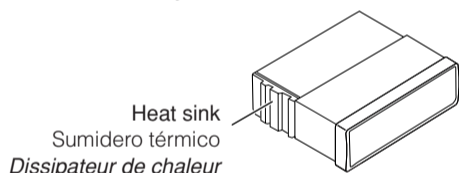
## ELECTRICAL CONNECTIONS

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 31 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.



## CONEXIONES ELECTRICAS

Para evitar cortocircuitos, recomendamos que desconecte el terminal negativo de la batería y que efectúe todas las conexiones eléctricas antes de instalar la unidad.

- Asegúrese de volver a conectar a masa esta unidad al chasis del automóvil después de la instalación.

### Notas:

- Reemplace el fusible por uno con la corriente especificada. Si el fusible se quemase frecuentemente consulte con su concesionario de JVC de equipos de audio para automóviles.
- Se recomienda conectar los altavoces con una potencia máxima de más de 50 W (tanto atrás como adelante, con una impedancia de 4 Ω a 8 Ω). Si la potencia máxima es de menos de 50 W, cambie "Ganancia" para evitar daños en los altavoces (consulte la página 31 del MANUAL DE INSTRUCCIONES).
- Para evitar cortocircuitos, cubra los cables NO UTILIZADOS con cinta aislante.
- El sumidero térmico estará muy caliente después del uso. Asegúrese de no tocarlo al desmontar esta unidad.

## RACCORDEMENTS ELECTRIQUES

Pour éviter tout court-circuit, nous vous recommandons de débrancher la borne négative de la batterie et d'effectuer tous les raccordements électriques avant d'installer l'appareil.

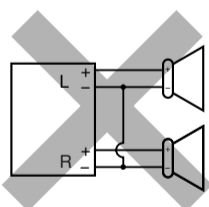
- Assurez-vous de raccorder de nouveau la mise à la masse de cet appareil au châssis de la voiture après l'installation.

### Remarques:

- Remplacer le fusible par un de la valeur précisée. Si le fusible saute souvent, consulter votre revendeur d'autoradios JVC.
- Il est recommandé de connecter des enceintes avec une puissance de plus de 50 W (les enceintes arrière et les enceintes avant, avec une impédance comprise entre 4 Ω et 8 Ω). Si la puissance maximum est inférieure à 50 W, changez "Gain Amp" pour éviter d'endommager vos enceintes (voir page 31 du MANUEL D'INSTRUCTIONS).
- Pour éviter les court-circuits, couvrir les bornes des fils qui ne sont PAS UTILISÉS avec de la bande isolante.
- Le dissipateur de chaleur devient très chaud après usage. Faire attention de ne pas le toucher en retirant cet appareil.

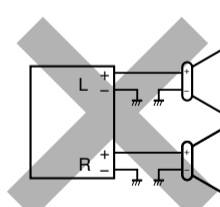
### PRECAUTIONS on power supply and speaker connections:

- 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.



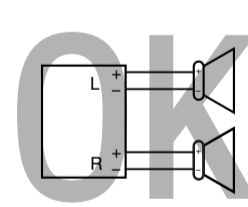
### PRECAUCIONES sobre las conexiones de la fuente de alimentación y de los altavoces:

- NO conecte los conductores de altavoz del cable de alimentación a la batería de automóvil, pues podrían producirse graves daños en la unidad.
- ANTES de conectar a los altavoces los conductores de altavoz del cable de alimentación, verifique el conexionado de altavoz de su automóvil.



### PRECAUTIONS sur l'alimentation et la connexion des enceintes:

- NE CONNECTEZ PAS les fils d'enceintes du cordon d'alimentation à la batterie; sinon, l'appareil serait sérieusement endommagé.
- AVANT de connecter les fils d'enceintes du cordon d'alimentation aux enceintes, vérifiez le câblage des enceintes de votre voiture.



## 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?

## LOCALIZACION DE AVERIAS

- **El fusible se quema.**
  - \* ¿Están los conductores rojo y negro correctamente conectados?
- **No es posible conectar la alimentación.**
  - \* ¿Está el cable amarillo conectado?
- **No sale sonido de los altavoces.**
  - \* ¿Está el cable de salida del altavoz cortocircuitado?
- **El sonido presenta distorsión.**
  - \* ¿Está el cable de salida del altavoz conectado a masa?
  - \* ¿Están los terminales "-" de los altavoces L y R conectados a una masa común?
- **Perturbación de ruido.**
  - \* ¿El terminal de tierra trasero está conectado al chasis del automóvil utilizando los cordones más corto y más grueso?
- **La unidad se calienta.**
  - \* ¿Está el cable de salida del altavoz conectado a masa?
  - \* ¿Están los terminales "-" de los altavoces L y R conectados a una masa común?

## EN CAS DE DIFFICULTES

- **Le fusible saute.**
  - \* Les fils rouge et noir sont-ils raccordés correctement?
- **L'appareil ne peut pas être mise sous tension.**
  - \* Le fil jaune est-elle raccordée?
- **Pas de son des enceintes.**
  - \* Le fil de sortie d'enceinte est-il court-circuité?
- **Le son est déformé.**
  - \* Le fil de sortie d'enceinte est-il à la masse?
  - \* Les bornes "-" des enceintes gauche et droit sont-elles mises ensemble à la masse?
- **Interférence avec les sons.**
  - \* La prise arrière de mise à la terre est-elle connectée au châssis de la voiture avec un cordon court et épais?
- **L'appareil devient chaud.**
  - \* Le fil de sortie d'enceinte est-il à la masse?
  - \* Les bornes "-" des enceintes gauche et droit sont-elles mises ensemble à la masse?

**A Typical Connections / Conexiones típicas / Raccordements typiques**

**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.

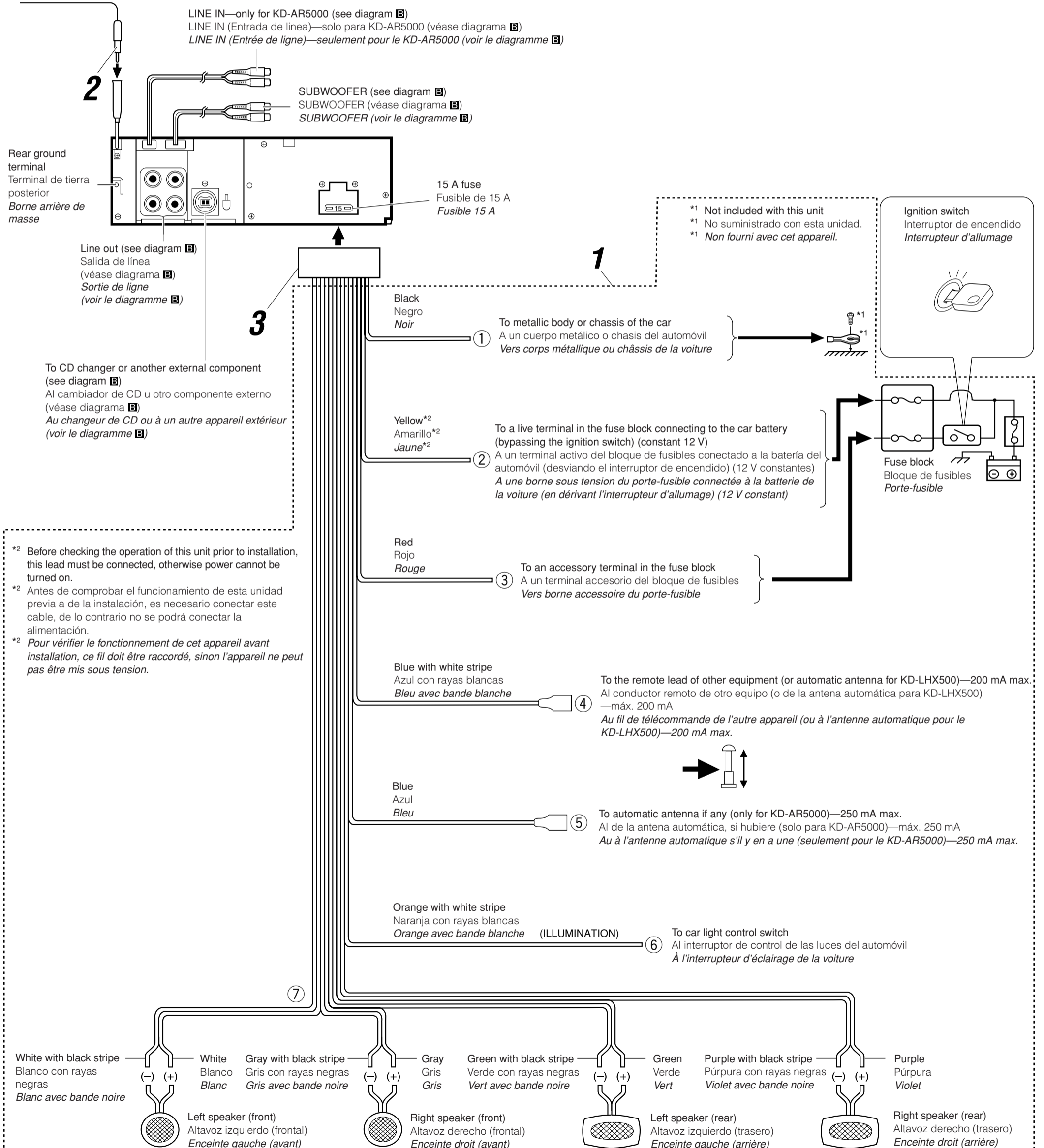
- 1 Connect the colored leads of the power cord in the order specified in the illustration below.
- 2 Connect the antenna cord.
- 3 Finally connect the wiring harness to the unit.

**Antes de la conexión:** Verifique atentamente el conexionado del vehículo. Una conexión incorrecta podría producir daños graves en la unidad.

- Los cordones del cable de alimentación y los del conector procedentes de la carrocería del automóvil podrían ser de diferentes en color.
- 1 Conecte los conductores de color del cable de alimentación en el orden especificado en la ilustración de abajo.
  - 2 Conecte el cable de antena.
  - 3 Por último, conecte el cable de alimentación a la unidad.

**Avant de commencer la connexion:** Vérifiez attentivement le câblage du véhicule. Une connexion incorrecte peut endommager sérieusement l'appareil.

- Le fil du cordon d'alimentation et ceux des connecteurs du châssis de la voiture peuvent être différents en couleur.
- 1 Connectez les fils colorés du cordon d'alimentation dans l'ordre spécifié sur l'illustration ci-dessous.
  - 2 Connectez le cordon d'antenne.
  - 3 Finalement, connectez le faisceau de fils à l'appareil.





**Amplifier / Amplificador / Amplificateur**

You can connect an amplifier and other equipment to upgrade your car stereo system.

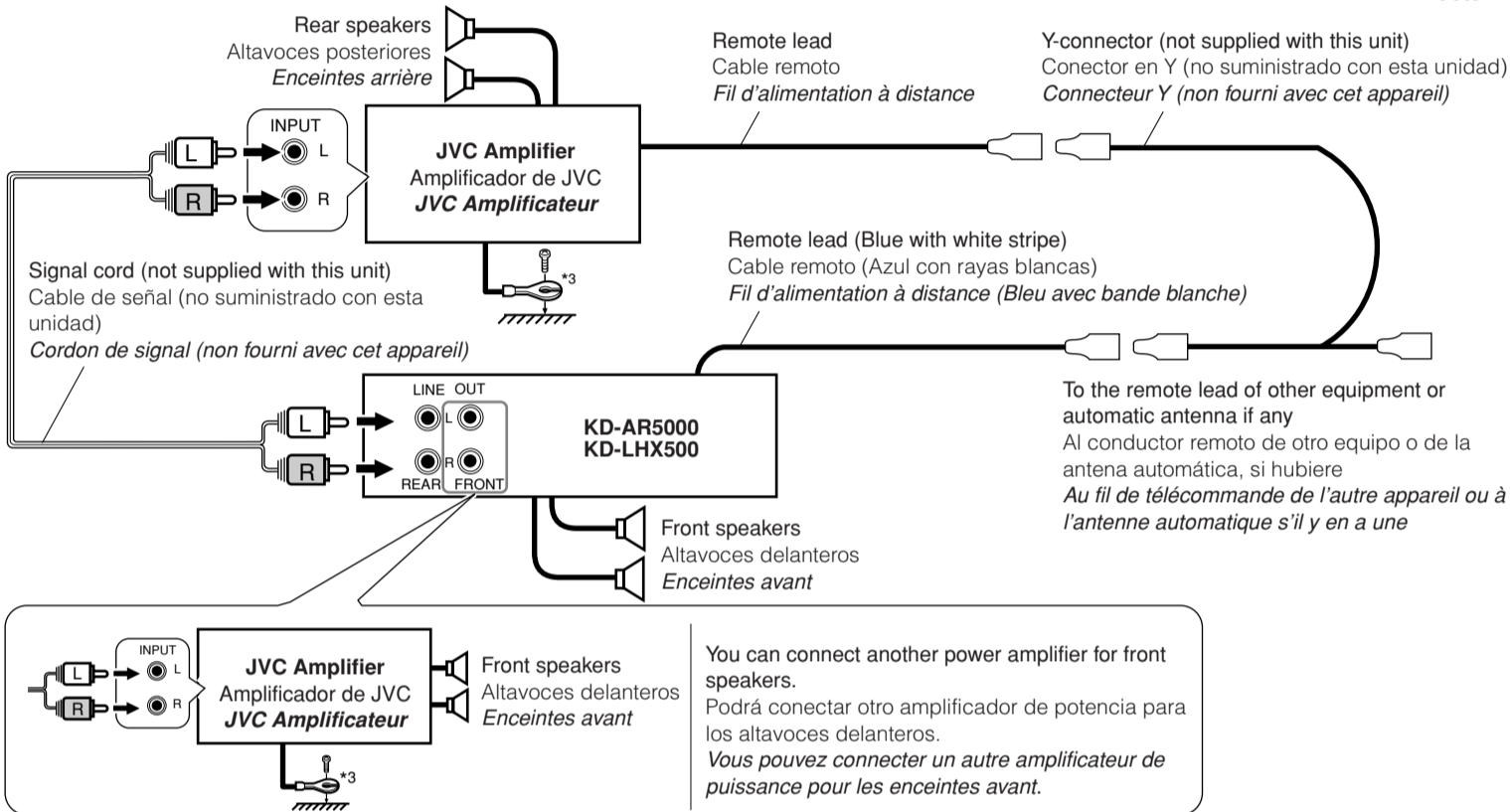
- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
  - **For amplifier only:**
    - **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**
    - Only for KD-AR5000: You can switch off the built-in amplifier and send the audio signals only to the external amplifier(s) to get clear sounds and to prevent internal heat built-up inside the unit. See page 31 of the INSTRUCTIONS (separate volume).
    - The line output level of this unit is kept high to maintain the hi-fi sounds reproduced from this unit.
- When connecting an external amplifier to this unit, turn down the gain control on the external amplifier to obtain the best performance from this unit.

Usted podrá conectar un amplificador y otros equipos para mejorar el sistema estéreo de su automóvil.

- Conecte el conductor remoto (azul con rayas blancas) al conductor remoto del otro equipo para poderlo controlar a través de esta unidad.
  - **Sólo para el amplificador:**
    - **Desconecte los altavoces de esta unidad y conéctelos al amplificador. Los cables de los altavoces de esta unidad quedan sin usar.**
    - Solo para KD-AR5000: Podrá desconectar el amplificador incorporado y enviar las señales de audio solamente al(los) amplificador(es) externo(s) para obtener sonidos nítidos y evitar que se caliente el interior de la unidad. Véase la página 31 de las MANUAL DE INSTRUCCIONES (volumen separado).
    - El nivel de salida de línea de esta unidad permanece alto para que corresponda con los sonidos de alta fidelidad reproducidos por esta unidad.
- Cuando conecte un amplificador externo a esta unidad, disminuya el control de ganancia del amplificador externo para obtener un óptimo rendimiento de esta unidad.

Vous pouvez connecter un amplificateur ou autre appareil pour améliorer votre système autoradio.

- Connectez le fil de commande à distance (bleu avec bande blanche) au fil de commande à distance de l'autre appareil de façon qu'il puisse être commandé via cet appareil.
  - **Pour l'amplificateur seulement:**
    - **Déconnectez les enceintes de cet appareil et connectez-les à l'amplificateur. Laissez les fils d'enceintes de cet appareil inutilisés.**
    - *Seulement pour le KD-AR5000: Vous pouvez désactiver l'amplificateur intégré et envoyer les signaux audio uniquement à un ou plusieurs amplificateurs extérieurs afin d'obtenir un son clair et pour éviter un échauffement interne de l'appareil. Référez-vous à la page 31 du MANUEL D'INSTRUCTIONS (volume séparé).*
    - *Le niveau de sortie de ligne de cet appareil est maintenu à un niveau élevé pour maintenir une qualité Hi-Fi pour les sons reproduits par cet appareil.*
- Lors de la connexion d'un amplificateur extérieur à cet appareil, diminuez le réglage du gain sur l'amplificateur extérieur pour obtenir les meilleures performances de cet appareil.



\*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.

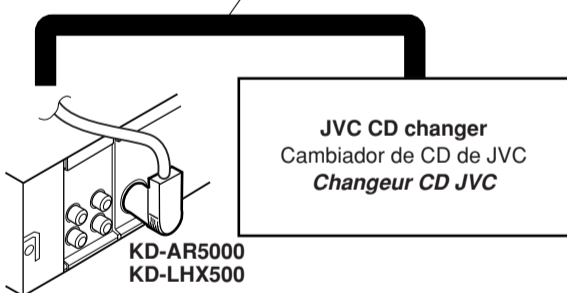
\*3 Fije firmemente el cable de tierra a la carrocería metálica o al chasis—a un lugar no cubierto con pintura (si está cubierto con pintura, quítela antes de fijar el cable). De lo contrario, se podrían producir daños en la unidad.

\*3 Attachez solidement le fil de mise à la masse au châssis métallique de la voiture—à un endroit qui n'est pas recouvert de peinture (s'il est recouvert de peinture, enlevez d'abord la peinture avant d'attacher le fil). L'appareil peut être endommagé si cela n'est pas fait correctement.

**CD Changer / Cambiador de CD / Changeur CD**

Refer also to the notes on page 38 of the INSTRUCTIONS. Consultez también las notas de página 38 de las MANUAL DE INSTRUCCIONES. Référez-vous aussi aux remarques de la page 38 du MANUEL D'INSTRUCTIONS.

Connecting cord supplied for your CD changer  
Cable de conexión suministrado con su cambiador de CD  
Cordon de connexion fourni avec votre changeur CD



**CAUTION / PRECAUCION / PRECAUTION**

- Before connecting the CD changer, make sure that the unit is turned off.
- Antes de conectar el cambiador de CD, asegúrese de que la unidad esté apagada.
- Avant de connecter le changeur CD, s'assurer que l'unité est éteinte.

**Subwoofer / Subwoofer / Caisson de grave**

You can connect a subwoofer through an amplifier to reinforce the bass.

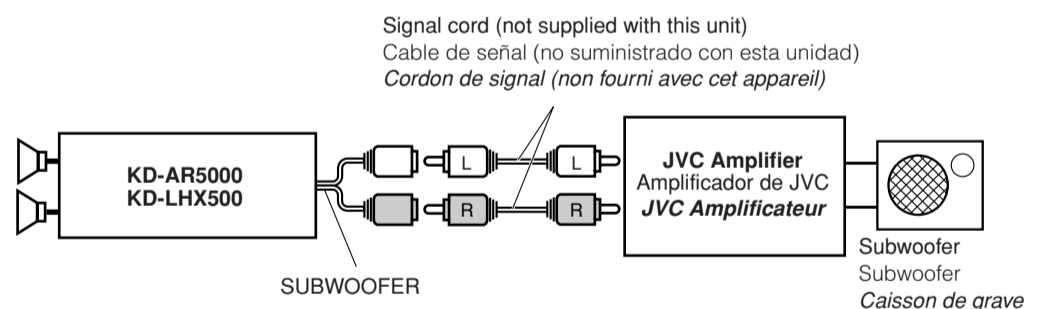
- For their connections, refer to the instructions supplied with your subwoofer.

Usted podrá conectar un subwoofer a través de un amplificador para reforzar los graves.

- Con respecto a sus conexiones, refiérase a las instrucciones suministradas con sus subwoofer.

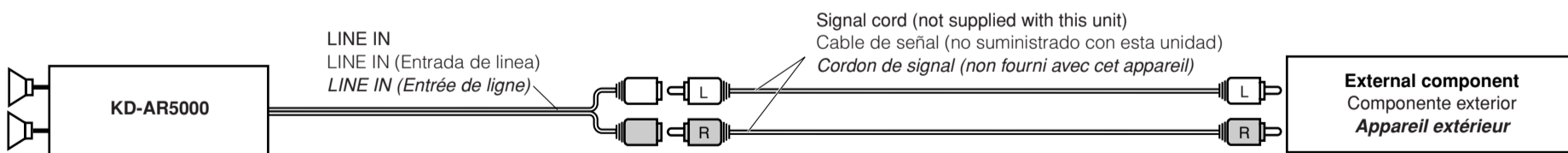
Vous pouvez connecter un caisson de grave par un amplificateur pour renforcer les graves.

- Pour la connexion, référez-vous aux instructions fournies avec le caisson de grave.

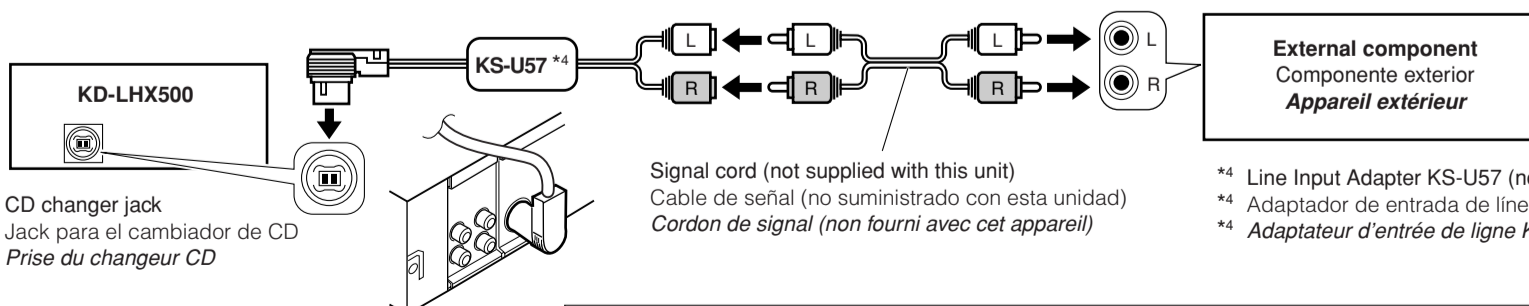


**External Component / Componente exterior / Appareil extérieur**

Only for KD-AR5000 / Solo para KD-AR5000 / Seulement pour le KD-AR5000



Only for KD-LHX500 / Solo para KD-LHX500 / Seulement pour le KD-LHX500



\*4 Line Input Adapter KS-U57 (not supplied for this unit)  
\*4 Adaptador de entrada de línea KS-U57 (no suministrado con esta unidad)  
\*4 Adaptateur d'entrée de ligne KS-U57 (non fourni avec cet appareil)

For connecting the JVC SIRIUS Radio, refer to the SIRIUS Radio Setup Manual (separate volume).  
Para la conexión de la radio JVC SIRIUS, consulte el Manual de configuración de la radio SIRIUS (volumen separado).  
Pour brancher la radio JVC SIRIUS, référez-vous au Manuel d'installation de la radio SIRIUS (volume séparé).