

JVC



CD/SD RECEIVER

KD-SHX855

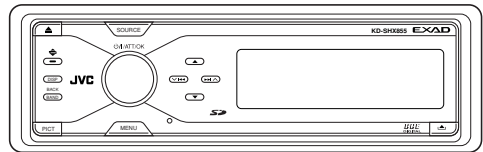
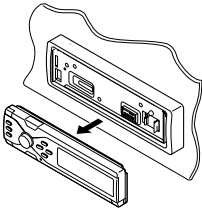
ENGLISH

เครื่องเล่น CD/SD

KD-SHX855

ไทย

EXAD



For canceling the display demonstration, see page 9.

ดูที่หน้า 9 เพื่อยกเลิกการสาธิตภาพประกอบ

For installation and connections, refer to the separate manual.

กรุณาดูคู่มือที่แยกต่างหาก ในการติดตั้งและการเชื่อมต่อ

INSTRUCTIONS

คำแนะนำ

LVT1373-001A
[U, UH]

Thank you for purchasing a JVC product.

Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

CAUTION: Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	ADVARSEL: Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til strålingen. (t)	VARNING: Synlig och osynlig laserstråling när den öppnas och spärren är urkopplad. Beträkta ej strålen. (s)	VARO: Arvattassa ja suojalukitus ohitettuna tai viallisena olet alitiina näkyvälle ja näkymättömälle lasersträilylle. Vältä säteiden koholustumista suoraan itseesi. (f)
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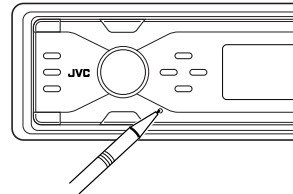
Warning:

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

Cautions:

- Do not insert 8 cm 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.

How to reset your unit



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

Notice:

The display window built in this receiver has been produced with high precision, but it may have some ineffective dots. This is inevitable and is not malfunction.

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This receiver is equipped with digital amplifier.

For safety....

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.


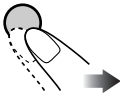
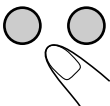
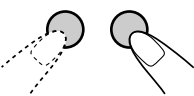


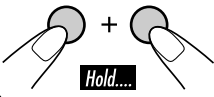
Temperature inside the car....

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

How to read this manual

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

- Some related tips and notes are explained in “More about this receiver” (see pages 45 – 48).
- Button operations are mainly explained with the illustrations as follows:

	Press briefly.
	Press repeatedly.
	Press either one.
	
	Press and hold until your desired response begins.
	Press (A), then press (B).
	Press and hold both buttons at the same time.

The following marks are used to indicate...



: Built-in CD player operations.



: External CD changer operations.



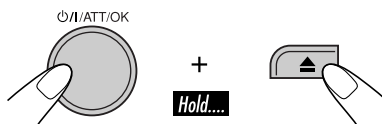
: SD card operations.

How to forcibly eject a disc

If a disc cannot be recognized by the receiver or cannot be ejected, eject the disc as follows.

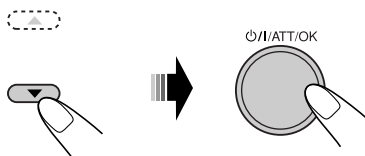
- If an SD card is inserted, eject the SD card first (see page 15).

1

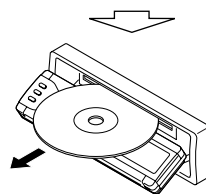


No Eject?
Emergency Eject?

2



No Eject?
Emergency Eject?

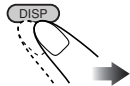


- If this does not work, reset your receiver.
- Be careful not to drop the disc when it ejects.

Caution on volume setting:

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

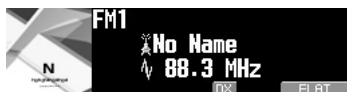
How to change the display pattern



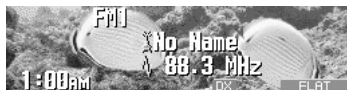
Ex.: When tuner is selected as the source



Source operation screen



"Small" (CD jacket image) graphic*1 is displayed.



"Large" (full screen size) graphic*1 is shown as the display background.



Graphic screen*1



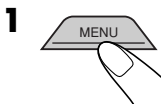
Audio level meters are displayed (see "LevelMeter" on page 37).

Goes back to the initial display pattern.

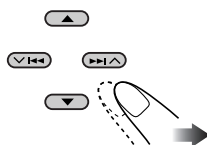
- *1 You can use your edited file for graphic screen (see pages 32 – 36). Depending on a downloaded file, it may take longer time to show it on the display.
- *2 The information bar will disappear if no operation is performed.

How to enter the various menus

The main menu contains the following menus—MODE, PSM, SEL, PICT, DSP, CCC, TITLE, EQ, and BBE.



2 Move the cursor to select a menu you want (MODE, PSM, SEL, PICT, DSP, CCC, TITLE, EQ, BBE).



* Cursor

- To go back to the previous screen, press BACK.
- * Works as time countdown indicator.

3 Enter the selected menu.

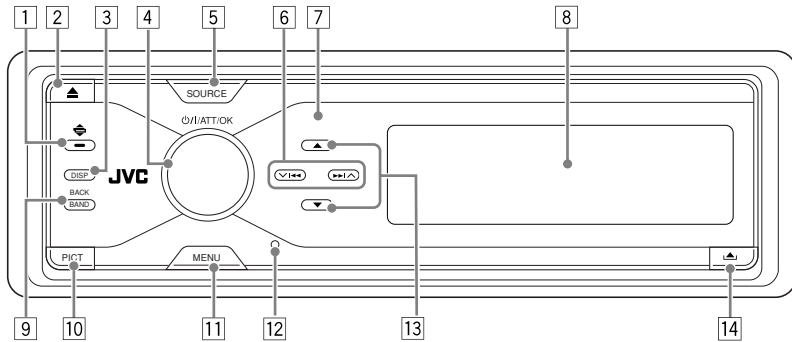


Ex.: When MODE menu is selected

- To go back to the MENU screen, press MENU.

4 Operate as instructed on the screen.

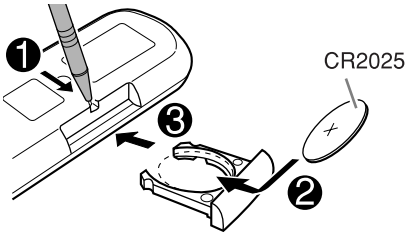
Parts identification



- 1 (**angle**) button
Adjusts the control panel angle.
- 2 (**eject**) button
Ejects the disc.
- 3 **DISP (display) button**
Changes the information shown on the display.
- 4 (**standby/on/attenuator**)/**OK button**
 - Turns on and off the power and also attenuates the sound.
 - Confirms the selection while operating the menus.**Volume control dial**
Adjusts the volume level.
- 5 **SOURCE button**
Selects the source.
- 6 (**∨/∧**) buttons
 - **For FM/AM:** Searches for stations if pressed, or skips frequencies after pressed and held.
 - **For discs or an SD card:** Changes the tracks if pressed, or fast-forwards or reverses the track if pressed and held.
 - **For menu operations:** Selects the menu items/values.
- 7 **Remote sensor**

DO NOT expose the remote sensor on the control panel to strong light (direct sunlight or artificial lighting).
- 8 **Color display window**
- 9 **BAND/BACK button**
 - **For FM/AM:** Selects the band.
 - **For menu operations:** Goes back to the previous screen.
- 10 **PICT (picture) button**
Displays the PICT menu.
- 11 **MENU button**
Displays the MENU screen.
- 12 **Reset button**
- 13 **▲ (up) / ▼ (down) buttons**
 - **For FM/AM:** Changes the preset stations if pressed, or displays Preset Station List if pressed and held.
 - **For MP3/WMA discs or an SD card:** Changes the folders if pressed, or displays Disc List (only for “CD-CH”) or Folder List if pressed and held.
 - **For menu operations:** Selects the menu items/values.
- 14 (**control panel release**) button

Installing the lithium coin battery (CR2025)

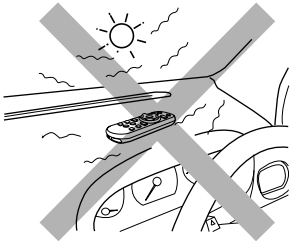


- When operating, aim the remote controller directly at the remote sensor on the receiver. Make sure there is no obstacle in between.

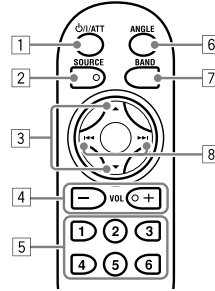
Warning:

- Do not install any battery other than CR2025 or its equivalent; otherwise, it may explode.
- Store the battery in a place where children cannot reach to avoid risk of accident.
- To prevent the battery from over-heating, cracking, or starting a fire:
 - Do not recharge, short, disassemble, or heat the battery or dispose of it in a fire.
 - Do not leave the battery with other metallic materials.
 - Do not poke the battery with tweezers or similar tools.
 - Wrap the battery with tape and insulate when throwing away or saving it.

Caution:



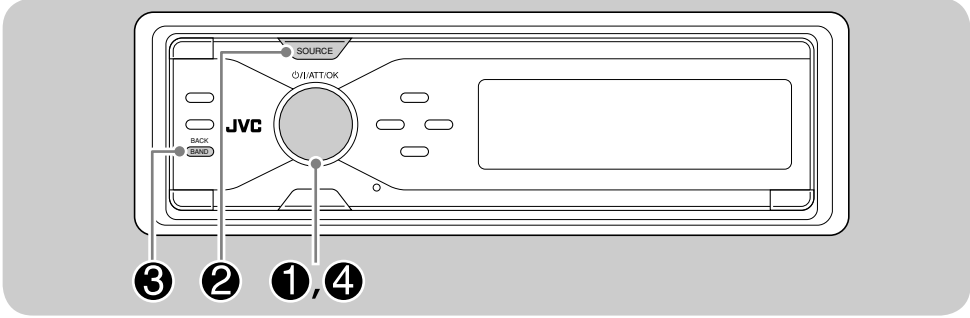
Main elements and features



- ⏻/ATT (standby/on/attenuator) button**
Turns on and off the power and also attenuates the sound.
- SOURCE button**
Selects the source.
- ▲ (up) / ▼ (down) buttons**
 - **For FM/AM:** Changes the preset stations.
 - **For MP3/WMA discs or an SD card:** Changes the folders.
- VOL (volume) + / - buttons**
Adjusts the volume level.
- Number buttons**
 - **For FM/AM:** Selects the preset station if pressed, or store a station if pressed and held.
 - **For audio CDs or CD Texts:** Selects the tracks.
 - **For MP3/WMA discs or an SD card:** Selects the folders.
 - **For CD changer:** Selects the discs.
- ANGLE button**
Adjusts the control panel angle.
- BAND button**
Selects the band.
- ◀◀ / ▶▶ buttons**
 - **For FM/AM:** Searches for stations if pressed, or skips frequencies after pressed and held.
 - **For discs or an SD card:** Changes the tracks if pressed, or fast-forwards or reverses the track if pressed and held.

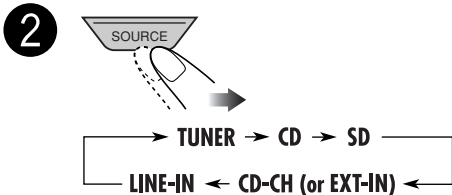
Getting started

Basic operations



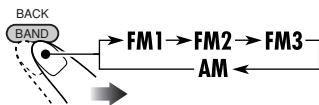
When activating or deactivating crossover network (see page 28), perform before turning on the power.

1 Turn on the power.



You cannot select some sources if they are not ready.

3 For FM/AM tuner



4 Adjust the volume.



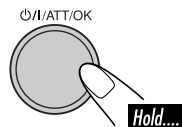
5 Adjust the sound as you want. (See pages 21 – 31.)

To drop the volume in a moment (ATT)



To restore the sound, press it again.

To turn off the power



Canceling the display demonstration

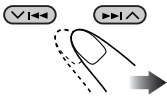
If no operations are done for about 45 seconds, display demonstration starts.

[Initial: Demo]—see page 37.

1 Enter the PSM menu (see page 5).

2 Select “Off.”

- Make sure “Demo/Link” is shown on the display. If not, press ▲ or ▼.



3 Finish the procedure.



To activate the display demonstration

In step **2** above, select “Demo.” For more details, see page 37.

Setting the clock

1 Enter the PSM menu (see page 5).

2 Set the hour, minute, and clock system.



1 Select “Clock Hr” (hour), then adjust the hour.



2 Select “Clock Min” (minute), then adjust the minute.



3 Select “24H/12H,” then select “24H” or “12H.”

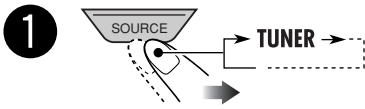
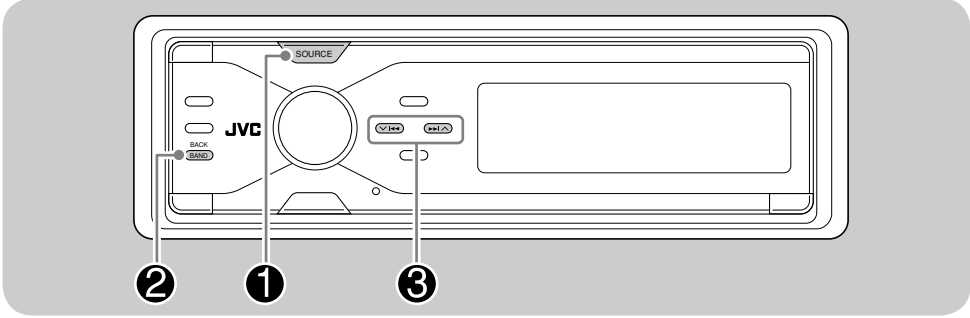


3 Finish the procedure.

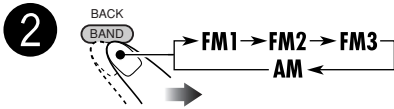


Radio operations

Listening to the radio

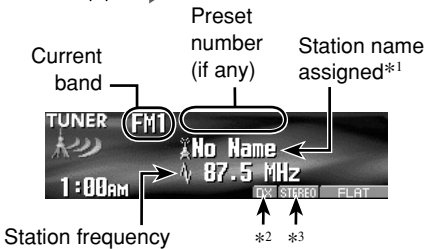


When a station is received, searching stops.
To stop searching, press the same button again.



To tune in to a station manually

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

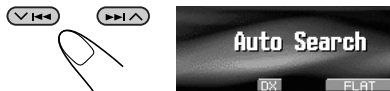


*1 To assign names to the stations, see page 41.

*2 LO or DX indicator: See page 11.

*3 STEREO or MONO indicator:
 • STEREO indicator lights up when receiving an FM stereo broadcast with sufficient signal strength.
 • For MONO, see the following section.

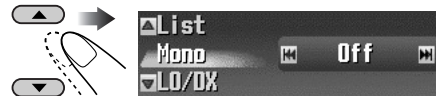
3 Start searching for a station.



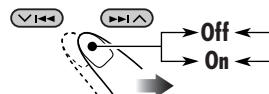
When an FM stereo broadcast is hard to receive

1 Enter the MODE menu (see page 5).

2 Select "Mono."



3 Select "On."



4 Finish the procedure.



MONO indicator lights up.
Reception improves, but stereo effect will be lost.

To restore the stereo effect, repeat the same procedure and select “Off” in step 3.

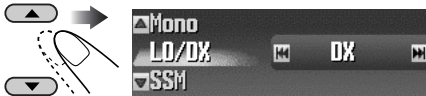
MONO indicator goes off.

■ To tune in FM stations only with strong signals—LO/DX (Local/Distance-extreme)

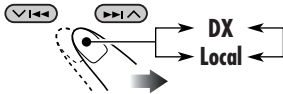
If received signals are weak, you may only hear noises. You can make this unit detect only stations with sufficient signal strength while searching for FM stations.

1 Enter the MODE menu (see page 5).

2 Select “LO/DX.”



3 Select “Local.”



4 Finish the procedure.



DX indicator goes off and **LO** indicator lights up.
Only stations with sufficient signal strength will be detected.

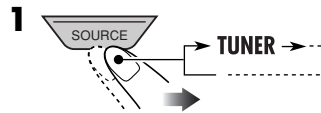
To tune in to all receivable stations, repeat the same procedure and select “DX” in step 3.

LO indicator goes off and **DX** indicator lights up.

Storing stations in memory

You can preset six stations for each band.

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

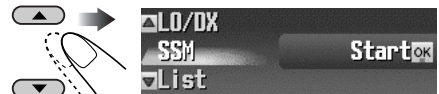


2 Select the FM band (FM1 – FM3) you want to store into.

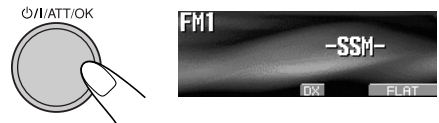


3 Enter the MODE menu (see page 5).

4 Select “SSM.”



5



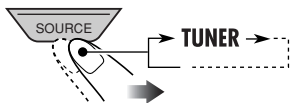
Local FM stations with the strongest signals are searched and stored automatically in the FM band.

To be continued....

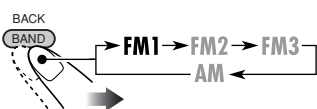
Manual presetting

Ex.: Storing FM station of 92.5 MHz into preset number 3 of the FM1 band.

1

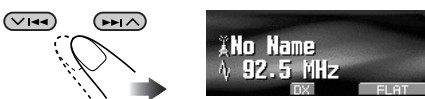


2



- If you hold ▲/▼, the Preset Station List will appear (see step 7 below).

3



4 Enter the MODE menu (see page 5).

5 Select “List.”



6 ϕ /I/ATT/OK



7 Select a preset number.



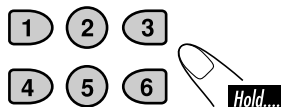
- You can move to the lists of the other FM bands by pressing ◀◀▶▶ (▼/▲).

8 Store the station.



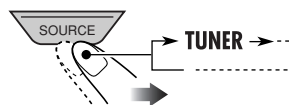
When using the remote controller...

After tuning in to a station you want to preset



Listening to a preset station

1



2



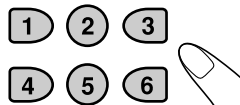
3 Perform steps 4 to 7 (on left column) to enter the Preset Station List.

4



When using the remote controller...

To directly select the preset number

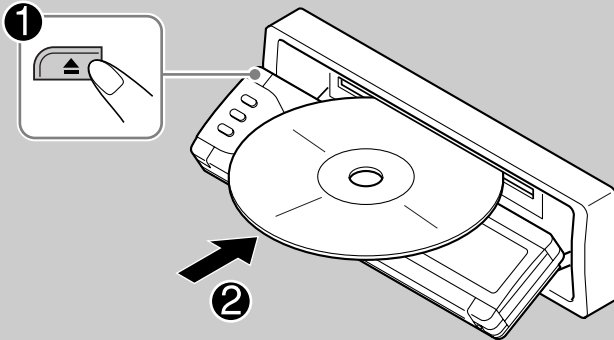


Disc/SD card operations

Playing a disc in the receiver



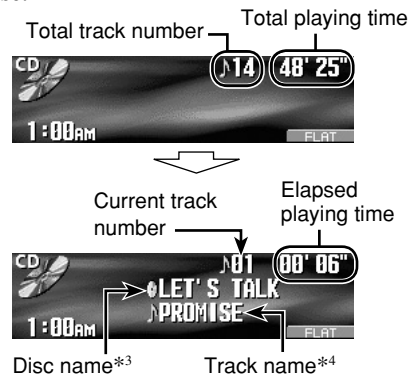
All tracks will be played repeatedly until you change the source or eject the disc.



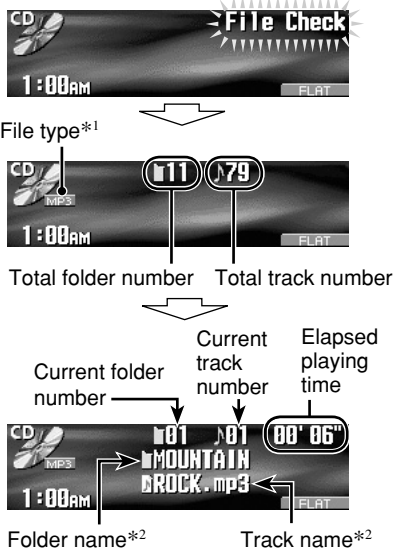
About MP3 and WMA discs

- When an MP3 or a WMA folder includes an image <jpw> file edited by Image Converter (Color Ver. 2.0)—supplied in the CD-ROM, you can show the image on the display while the tracks in the folder are played back—ImageLink. (See pages 37 and 47 for details.)
- MP3 and WMA (Windows Media® Audio) “tracks” (words “file” and “track” are used interchangeably) are recorded in “folders.”

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

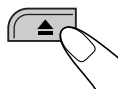


- When inserting an MP3 or a WMA disc:



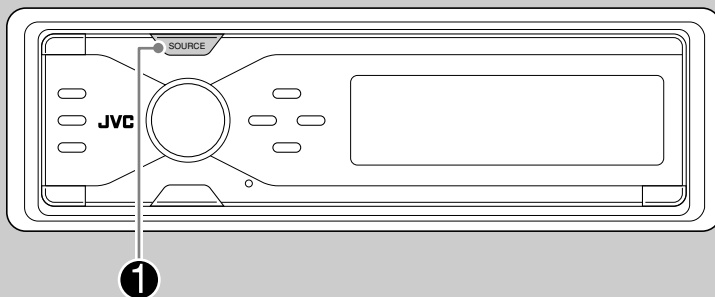
- *1 Either the MP3 or WMA indicator lights up depending on the detected file.
- *2 The album name/performer with indicator and the track title with indicator will appear if “Tag” is set to “On” (see page 38).
- *3 Appears only for CD Texts and CDs if it has been recorded or assigned. (“No Name” appears if no name is recorded or assigned to an audio CD.)
- *4 Appears only for CD Texts. (“No Name” appears if no name is recorded.)

To stop play and eject the disc



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

Playing discs in the CD changer



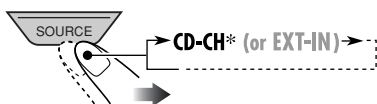
About the CD changer

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

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

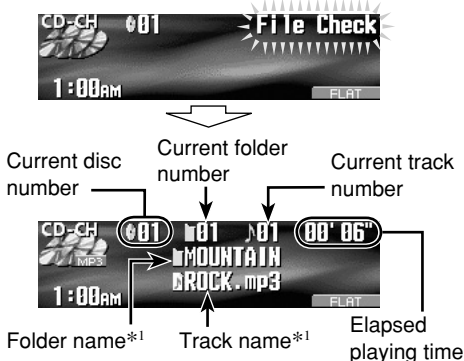
All tracks of the inserted discs in the magazine will be played repeatedly until you change the source or eject the magazine from the CD changer.

1

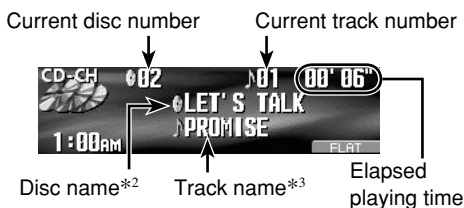


* If you have changed "Ext Input" setting to "Ext Input" (see page 39), you cannot select the CD changer.

- When the current disc is an MP3 disc:



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

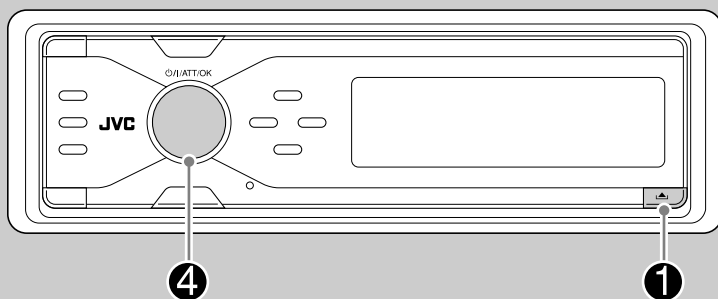


*1 The album name/performer with indicator and the track title with indicator will appear if "Tag" is set to "On" (see page 38).

*2 Appears only for CD Texts and CDs if it has been recorded or assigned. ("No Name" appears if no name is recorded or assigned to an audio CD.)

*3 Appears only for CD Texts. ("No Name" appears if no name is recorded.)

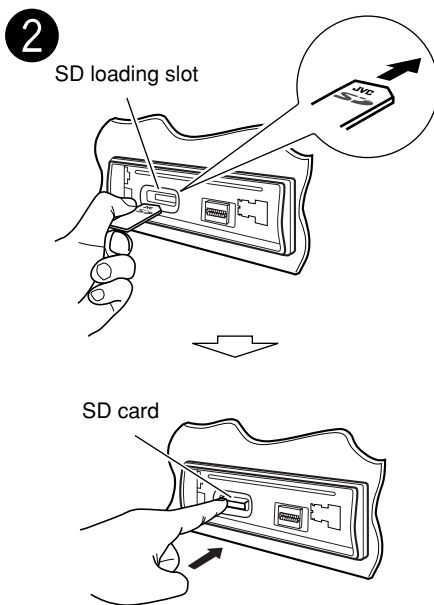
Playing an SD card



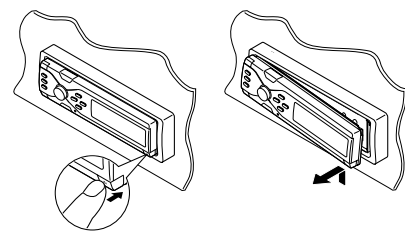
About the SD card

- When an MP3 or a WMA folder includes an image <jpw> file edited by Image Converter (Color Ver. 2.0)—supplied in the CD-ROM, you can show the image on the display while the tracks in the folder are played back—ImageLink. (See pages 37 and 47 for details.)
- The required SD recording format is FAT 12/16 and the recommended storage type is 8 MB to 512 MB.
- You cannot use MMC or mini SD with this receiver.

Before detaching the control panel, turn off the power.



1 Detach the control panel.



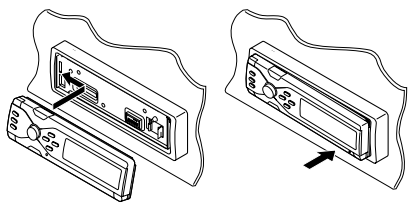
Press in the SD card until you hear a clicking sound.

To eject the SD card, press the SD card again.

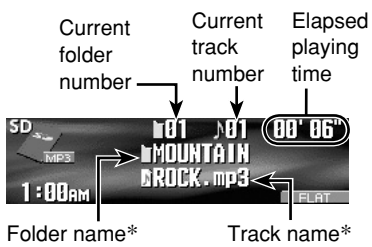
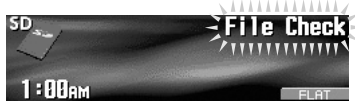
- Press the SD card softly (do not release your finger quickly); otherwise, the SD card may pop out from the unit.

To be continued...

3 Attach the control panel.

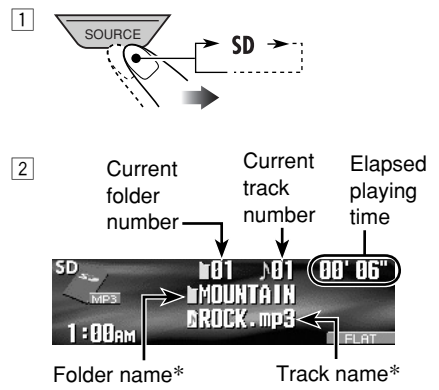




4 The control panel goes back to the previous position (see page 42).



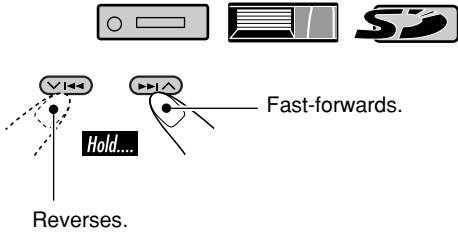
Playback starts automatically if tracks are recorded.

If an SD card has been loaded...

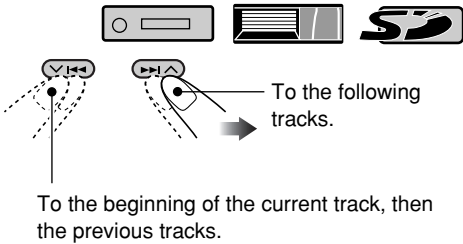


* The album name/performer with  indicator and the track title with  indicator will appear if "Tag" is set to "On" (see page 38).

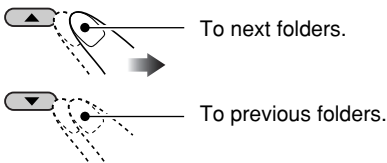
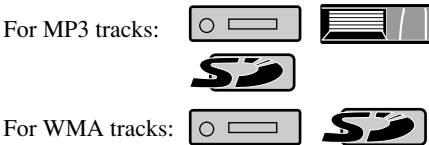
To fast-forward or reverse the track



To go to the next or previous tracks



To go to the next or previous folders (only for MP3 and WMA tracks)



- Holding the buttons can display the Disc List () and Folder List (/) (see the following section).

Other main functions

■ Selecting a disc/folder/track on the list



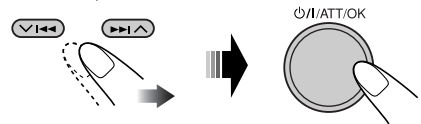
- This function is not available for an audio CD or a CD Text when the source is “CD.”

1 Enter the MODE menu (see page 5).

2 Select “List.”



3 Select the list type—“Disc,”*1 “Folder,”*2 or “File.”*2



*1 Selectable only when the source is “CD-CH.”

*2 Appears only for MP3/WMA files.

1 When “Disc” is selected:



Disc List appears.

- You can move to the other list by pressing (/).

To select a disc



To be continued....

To start playback



- Only for MP3: If you select the current disc (highlighted on the screen), its Folder List appears.

2 When “Folder” is selected:



Folder List appears.

- You can move to the other lists by pressing |◀▶| (▼/▲).

To select a folder



To start playback



- If you select the current folder (highlighted on the screen), its File List appears.

3 When “File” is selected:



File List appears.

- You can move to the other lists by pressing |◀▶| (▼/▲).

To select a file







To start playback

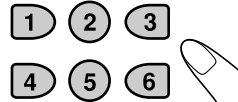


When using the remote controller...

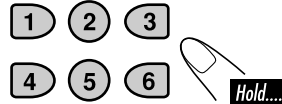


- To directly select a disc ()
- To directly select a track of an audio CD or a CD Text ()
- To directly select an MP3/WMA folder ( / )

To select a number from 1 – 6:



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



- For MP3/WMA folders:
It is required that folders are assigned with 2-digit number at the beginning of their folder names—01, 02, 03, and so on.

Prohibiting disc ejection



You can lock a disc in the loading slot.

1



No Eject?
Emergency Eject?

2 After making sure “No Eject?” is selected (highlighted)...



“No Eject” flashes, and the disc cannot be ejected.

To cancel the prohibition

Repeat the same procedure, press **P/ATT/OK** in step 2 after making sure that “Eject OK?” is selected (highlighted).
“Eject OK” flashes.

Selecting the playback modes



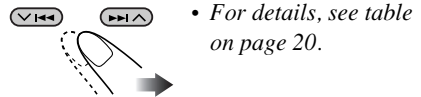
You can use only one of the following playback modes at a time.

1 Enter the MODE menu (see page 5).

2 Select one of the playback modes—“Intro,” “Repeat,” or “Random.”



3 Select your desired playback modes.



4 Finish the procedure.



To be continued....

Intro play



Ex.: When "Track" is selected while playing an MP3 disc in the receiver

Repeat play



Ex.: When "Track" is selected while playing an MP3 disc in the receiver

Random play



Ex.: When "Disc" is selected while playing an MP3 disc in the receiver

Mode Plays the beginning 15 seconds of...

- Track:** All tracks of the current disc or the SD card.
- While playing, lights up.
- Folder*1:** First tracks of all folders of the current disc or the SD card.
- While playing, lights up.
- Disc*2:** First tracks of all the inserted discs.
- While playing, lights up.
- Off:** Cancels.

Mode Plays repeatedly

- Track:** The current track.
- While playing, lights up.
- Folder*1:** All tracks of the current folder.
- While playing, lights up.
- Disc*2:** All tracks of the current disc.
- While playing, lights up.
- Off:** Cancels.

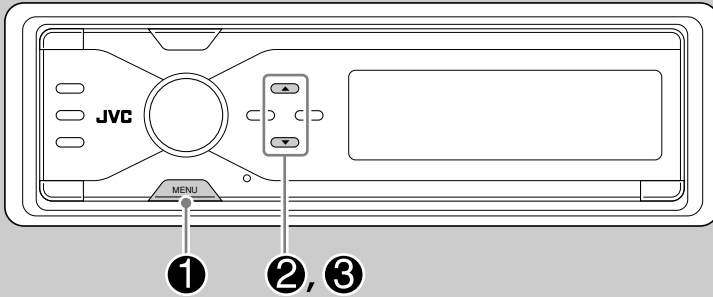
Mode Plays at random

- Folder*1:** All tracks of the current folder, then tracks of the next folder and so on.
- While playing, lights up.
- Disc:** All tracks of the current disc.
- While playing, lights up.
- SD:** All tracks of the SD card.
- While playing, lights up.
- All*2:** All tracks of the inserted discs.
- While playing, lights up.
- Off:** Cancels.

*1 Only while playing an MP3 (/ /) or a WMA (/) track.

*2 Only while playing a disc in the CD changer ().

Selecting the DSP modes—DSP



You can create a more acoustic sound field such as in a theater, hall, etc.

- When crossover network (see page 28) is activated, the DSP mode is fixed to “Defeat.”

Available DSP modes

Defeat (No acoustic effect is applied),
Theater, Hall, Club, Dome, Studio,
V.Cancel (Voice Cancel: Reduces the vocal sounds. Good for mastering your favorite songs—Karaoke.)

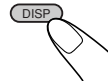
3 Adjust the effect level (1 – 3).



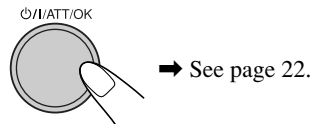
- For “Defeat” and “V.Cancel,” the effect level is not adjustable.
- As the number increases, the effect level becomes stronger.



- To finish the procedure



- To make further precise settings



1 Enter the DSP menu (see page 5).

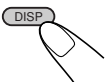
2 Select one of the DSP modes.



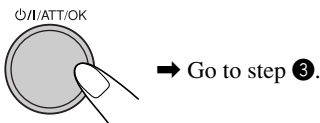
Ex.: When “Theater” is selected



- To finish the procedure



- To adjust the effect level



To cancel the acoustic effect, select “Defeat” in step 2.

To make further precise settings for the DSP modes

Setting items:

The number of the built-in speakers:
Select the number of the speakers built in your car—"2ch" or "4ch."

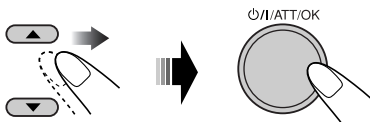
Time alignment:
Set the distance between each speaker and the listening seat position.

1 Repeat steps 1 to 3 on page 21 to select DSP mode.



2 Select the number of the built-in speakers.

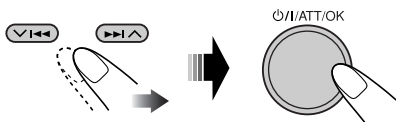
- For "Defeat" and "V.Cancel," the speaker number is fixed to "4ch."



4ch: Select for the four speaker system.

2ch: Select for the two speaker system.

3 Select your listening seat position.



All: For all front and rear seats.

Front: For the both front seats.

R.Front: For the front right seat.

L.Front: For the front left seat.

4 Select the speaker to be adjusted.



L.Front: For left front speaker.

R.Front: For right front speaker.

L.Rear*: For left rear speaker.

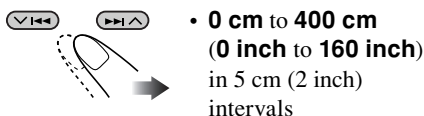
R.Rear*: For right rear speaker.

Subwoofer: For subwoofer.

* Appears only when "4ch" is selected in step 2.

5 Select distance between the selected speaker and the seat.

- You can change the measuring unit to inch by holding DISP. Each time you press and hold the button, the unit alternates between centimeter (cm) and inch.



• **0 cm to 400 cm**
(0 inch to 160 inch)
in 5 cm (2 inch) intervals

- Once you have set the distance, it is memorized for each seat position selected in step 3. The memorized settings are recalled next time you select the seat position.

6 Repeat steps 4 and 5 to adjust the distance for the other speakers.

7 Finish the procedure.



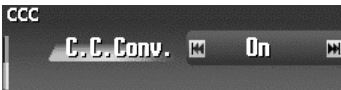
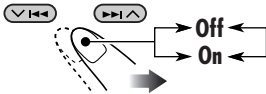
Making sound natural

To activate Compression Compensative (CC) Converter

CC Converter eliminates jitter and ripples, achieving a drastic reduction in digital distortion. This processing can be applied to the analog sources as well as the digital sources; therefore, you can obtain a natural sound field from any source.

1 Enter the CCC menu (see page 5).

2 Select “On.”



- When “C.C.Conv.” is turned on, the CCC indicator is brightened in yellow on the display (in sequence with other indicators).
- **To cancel CC Converter**, select “Off.”

3 Finish the procedure.

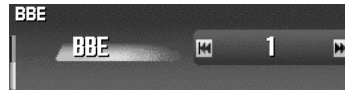
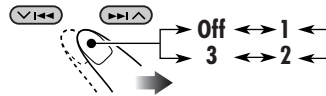


To activate BBE Digital

BBE Digital* is a digital processing method to restore the brilliance and clarity of the original live sound in recording, broadcasts, etc. When a speaker reproduces sound, it introduces frequency-dependent phase shifting, causing high-frequency sounds to take longer to reach the ear than low frequency sounds. BBE Digital adjusts the phase relationship between the low, mid and high frequencies by adding a progressively longer delay time to the low and mid frequencies, so that all frequencies reach the listener’s ears at the proper time.

1 Enter the BBE menu (see page 5).

2 Select the effect level.



Ex.: When “1” is selected

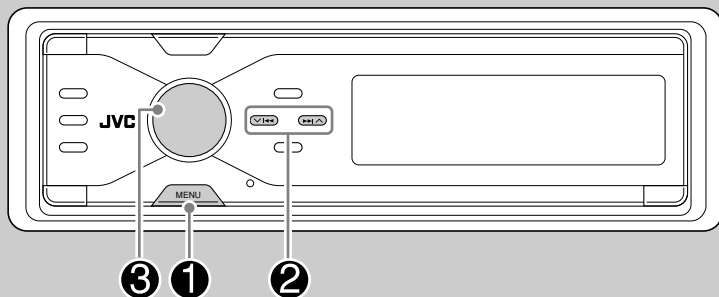
- As the number gets higher, the effect level becomes stronger. When “BBE” is turned on, the BBE indicator is brightened in green (with its current level) on the display (in sequence with other indicators).
- **To cancel BBE Digital**, select “Off.”

3 Finish the procedure.



* **Manufactured under license from BBE Sound, Inc.**
 Licensed by BBE Sound, Inc. under USP5510752 and 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.

Using equalizer—EQ



You can adjust the sound equalization patterns to your preference by using two EQ modes—Graphic EQ and Parametric EQ.

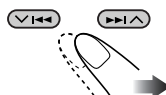
Graphic EQ: You can select a preset sound mode suitable to the music genre. You can also store your own adjustments in memory.

Parametric EQ: You can adjust the enhanced level, bandwidth, and center frequencies at three bands. You can make more precise settings than using Graphic EQ.

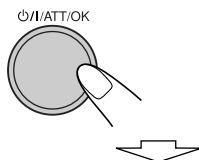
- Adjust the equalizer to match the reproducible frequency range of the connected speakers; otherwise, the adjustments may not be effective.
- You cannot activate both Graphic EQ and Parametric EQ at the same time.

1 Enter the EQ menu (see page 5).

2 Select “Graphic” or “Parametric.”



3



- To select preset sound modes
➔ See page 25.
- To adjust the sound mode and store your own adjustment in memory
➔ See page 26.
- To adjust Parametric EQ
➔ See page 27.

Selecting preset sound modes —Graphic EQ

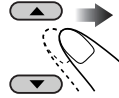
Available sound modes

Flat (No sound mode is applied),
Hard Rock, R&B (Rhythm&Blues),
Pop, Jazz, Dance, Country, Reggae,
Classic, User 1, User 2, User 3

- For User 1/2/3, you can store your own adjustment (see page 26).

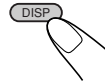
- Follow steps ① to ③ on page 24.
- In step ②, select “Graphic.”

- Select a sound mode.



Ex.: When “Flat” is selected

- Finish the procedure.



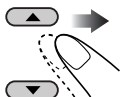
The list below shows the preset frequency level settings for each sound mode:

Sound Mode	Preset equalizing values								
	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	12.5 kHz
Flat	00	00	00	00	00	00	00	00	00
Hard Rock	+06	+06	+04	+02	00	00	+02	+04	+02
R&B	+06	+04	+04	+04	00	+02	+02	+02	+06
Pop	00	+04	+02	00	00	+02	+02	+02	+04
Jazz	+06	+04	+02	+02	+02	+02	+02	+06	+04
Dance	+08	+04	+02	00	-04	-02	00	+02	+02
Country	+04	+02	00	00	00	00	00	+02	+04
Reggae	+06	+02	00	00	+02	+04	+04	+04	+06
Classic	+04	+06	+04	+02	00	00	+02	+04	00
User 1	00	00	00	00	00	00	00	00	00
User 2	00	00	00	00	00	00	00	00	00
User 3	00	00	00	00	00	00	00	00	00


Storing your own sound modes

1 Follow steps **1** to **3** on page 24.
 • In step **2**, select “Graphic.”

2 Select a sound mode.

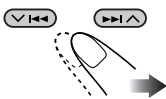


Ex.: When “Flat” is selected

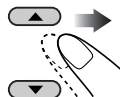
3 




4 Select the frequency band—63 Hz, 125 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz, 12.5 kHz.



5 Adjust the enhanced level for the selected frequency band within the range of -10 to +10.

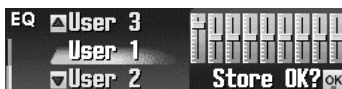
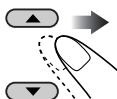


6 Repeat steps **4** and **5** to adjust the other frequency bands.

7 



8 Select one of the user modes—User 1/2/3.



9 Store the adjustments.

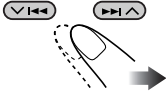


Ex.: When “User 1” is selected

Adjusting Parametric EQ

- 1** Follow steps ① to ③ on page 24.
 • In step ②, select “Parametric.”

- 2** Select the band—Band1/2/3.

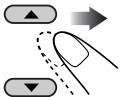


Band1: Low band (20 Hz to 1.2 kHz)

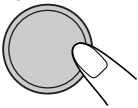
Band2: Mid band (80 Hz to 5 kHz)

Band3: High band (315 Hz to 20 kHz)

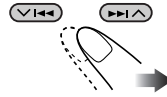
- 3** Adjust the enhanced level for the selected band within the range of -10 to +10.



- 4** \odot /I/ATT/OK

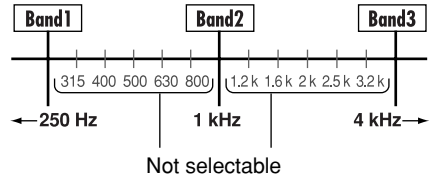


- 5** Select the frequency (adjustable between 20 Hz – 20 kHz).

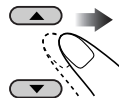


- Band 1/2/3 are required to be preset at least 5 steps (frequencies) away from each other. (Only selectable frequencies are shown on the display.)

Ex.: When “1 kHz” is selected for “Band2”



- 6** Select the band width (Q)—0.7/1/2/3/4/5.



- To adjust the other bands, press BACK. Then repeat steps 2 to 6.

- 7** Finish the procedure.



- Once you have made adjustments, it is memorized. The memorized setting is recalled next time you select Parametric EQ.

Sound adjustments — Preference settings

■ Activating crossover network

Crossover network function enables to allocate sound signals to different speakers by frequency range.

By activating crossover network, you can make precise adjustments to match the characteristic of each speaker. (See “To adjust reproduced frequency level—Crossover” on page 30.)

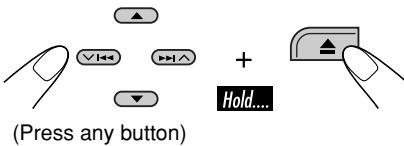
If you have installed the 3-way network speaker system in the car, make sure of the following.

- Before using the system, activate crossover network and preset the appropriate cutoff frequencies for HPF/LPF (especially for HPF); otherwise, it may damage the speakers.
- For 3-way network speaker system, see Installation/Connection Manual (separate volume).

- Until you finish the following procedure, you cannot perform other operations.

While the power is turned off...

1



Crossover On?

2



Crossover On OK?

- To cancel the procedure, press and hold \odot /I/ATT/OK. The power turns off.

3 Finish the procedure.



- **X-OVER** indicator lights up (in sequence with other indicators).

To cancel Crossover

Repeat the same procedure.

Make sure that “Crossover Off?” appears on the display in step 1 and “Crossover Off OK?” in step 2.

- **X-OVER** indicator goes off.

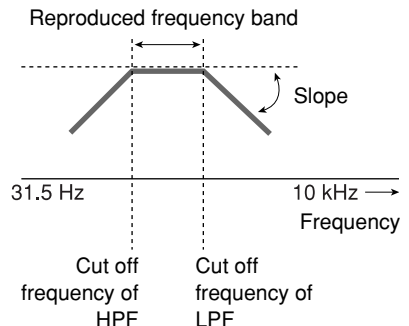
Adjustable items for crossover network

You can adjust the following parameters for crossover network. For details, see pages 30 and 31.

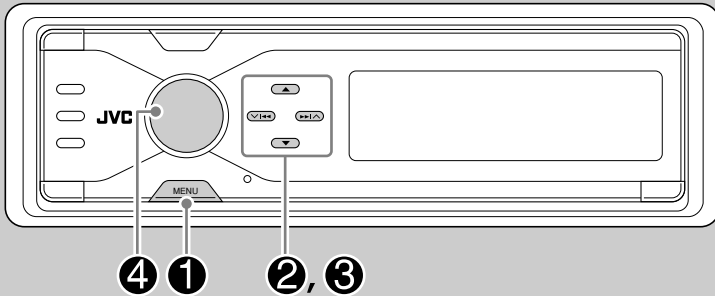
- HPF (high pass filter): For front/rear speakers.
- LPF (low pass filter): For rear speakers and subwoofer*.
- Slope (filter attenuation slope): For front/rear speakers and subwoofer*.

* You can adjust LPF and slope for subwoofer even though crossover network is deactivated.

How crossover parameters actually work

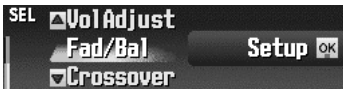
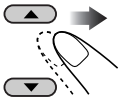


Setting the basic sound selection menu—SEL



You can adjust the sound characteristics to your preference.

- 1** Enter the SEL menu (see page 5).
- 2** Select a setting item—“Fad/Bal,” “Crossover*,” “Subwoofer,” or “VolAdjust.”

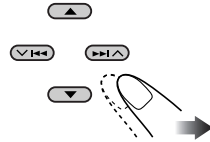


Ex.: When “Fad/Bal” is selected

* Appears only when crossover network is activated (see page 28).

When selecting “Fad/Bal,” “Crossover,” or “Subwoofer,” press ϕ /I/ATT/OK to enter the its submenu.

- 3** Adjust the selected setting item.



- To adjust other SEL settings, press BACK. Then repeat steps **2** and **3**.

- 4** Finish the procedure.

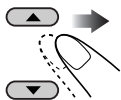


To adjust fader and balance —Fad/Bal



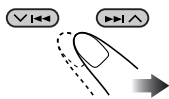
Adjust the fader*—speaker output balance between the front and rear speakers.

* When crossover network is activated, speaker output balance between high-range and mid-range speakers is adjusted.



- **F12:** Upmost—front only
- **R12:** Downmost—rear only

Adjust the balance—speaker output balance between the left and right speakers.



- **L12:** Leftmost—left only
- **R12:** Rightmost—right only

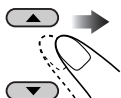
To adjust reproduced frequency level—Crossover

- This setting is available only when crossover network (see page 28) is activated.

To activate the filters (HPF/LPF)



Select an item.



- **Front HPF / Rear LPF / Rear HPF**

- For Front HPF and Rear HPF: Frequencies lower than the selected level are cut off.
- For Rear LPF: Frequencies higher than the selected level are cut off.

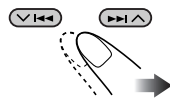
Front HPF: Adjusts HPF for front speakers.

Rear LPF: Adjusts LPF for rear speakers.

Rear HPF: Adjusts HPF for rear speakers.

Select “ON” or “OFF.”

- If you connect high-range speakers to Front or Rear output, select “ON” for the corresponding HPF; otherwise, the speakers may be damaged.



- **ON / OFF**

ON: Activates the filter.

- ➔ Press **⏻/1/ATT/OK** to adjust reproduced frequency level and slope (see below).

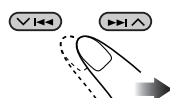
OFF: Deactivates the filter.

- ➔ Press **⏻/1/ATT/OK**. “Filter Off OK?” appears, then press **⏻/1/ATT/OK** again.

To select the cutoff frequency



Select an appropriate cutoff frequency level according to speakers.

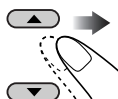


- **1.6 kHz to 16 kHz:** For Front HPF and Rear LPF
- **31.5 Hz to 200 Hz:** For Rear HPF

To adjust the slope



Adjust the slope—continuity of sound among speakers.

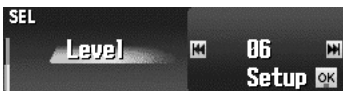


- **-18 / -12 / -6 (dB)**

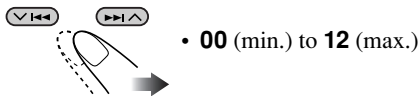
- As the number becomes higher, the reproduced band width shared among speakers becomes wider.

To adjust subwoofer output—Subwoofer

To adjust subwoofer level



Adjust the subwoofer output level.



• **00** (min.) to **12** (max.)

- Press **⏪/I/ATT/OK** to adjust reproduced frequency level and slope.

To select the cutoff frequency



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



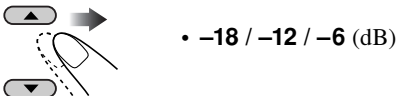
• **31.5 Hz** to **200 Hz**

- Frequencies higher than the selected level are cut off to the subwoofer.

To adjust the slope



Adjust the slope—continuity of sound among speakers.



• **-18 / -12 / -6** (dB)

- As the number becomes higher, the reproduced band width shared among speakers becomes wider.

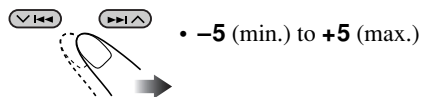
To adjust the input level of each source—VolAdjust



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.

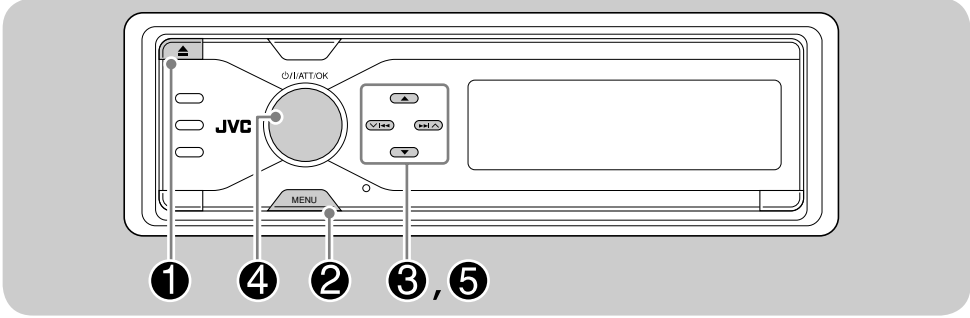
Adjust to match the input level to the FM sound level.



• **-5** (min.) to **+5** (max.)

Graphic displays

Basic procedure

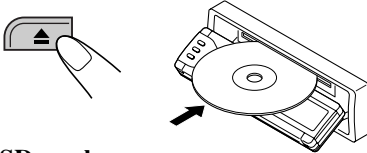


Before starting the following procedure, prepare a CD-R or an SD card including still images (pictures) and animations (movies).

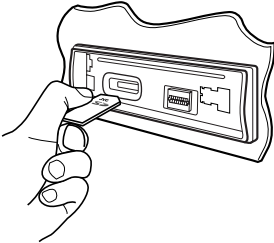
- With Image Converter (Color Ver. 2.0) included in the supplied CD-ROM, you can create your own images and animations. (Samples are included in the CD-ROM.)
- You can store two sizes of picture and animation—“Large” and “Small” as the graphic display (see page 5).

1 Insert a CD-R, an SD card, or the supplied CD-ROM.

- CD-R/supplied CD-ROM



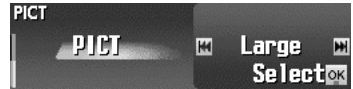
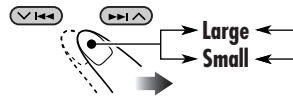
- SD card



2 Enter the PICT menu (see page 5).

- If you press PICT, you can enter the PICT menu directly.

3 Select the picture size—“Large” or “Small.”



4 

5 Select the item.



Ex.: When “Delete” is selected

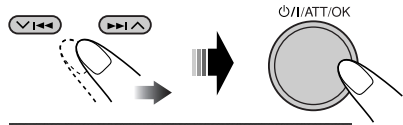
- To download the file(s):
→ “Download” (see page 33)
- To delete the file(s):
→ “Delete” (see page 34)
- To delete all files:
→ “AllDelete” (see page 35)
- To activate the file(s):
→ Activating the downloaded files (see page 36)

IMPORTANT:

- Refer also to Image Converter PDF files included in the “Manual” folder on the supplied CD-ROM.
- Still images (pictures) and animations (movie) should have the following extension code in their file names:
 - **jpl:** for large size still images
 - **jpm:** for small size still images
 - **jpa:** for large size animations
 - **jpb:** for small size animations
 - **jpw:** for ImageLink (see pages 37 and 47)
- 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 so, the file download or deletion will not be done correctly.

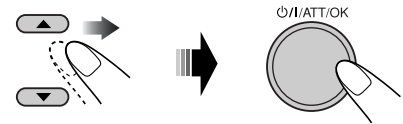
2 Select the file type—either “Picture” or “Movie.”



The Folder List appears.

3 Select a folder.

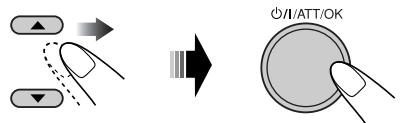
- You can move to the other lists by pressing ◀▶▶▶ (▼/▲).



The File List appears.

4 Select a file.

- You can move to the other lists by pressing ◀▶▶▶ (▼/▲).



Downloading the files

- **Picture:** Graphic screen
To download/delete still images (16 still images each for large size and for small size) which will be shown while playing a source.
- **Movie:** Graphic screen
To download/delete animations (60 frames each for large size and for small size) which will be shown while playing a source.

Downloading pictures or animations

- It takes a long time to download an animation. For details, see page 48.
- To activate the downloaded files, see page 36.

1 Follow steps 1 to 5 on page 32.

- In step 3, select the picture size.
- Then in step 5, select “Download.”

To be continued...

5 Download the file.

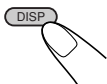


- To cancel downloading, press DISP.
- When download is complete, the File List appears again.

6 • To download more pictures from the same folder, repeat steps 4 and 5.

- To download more pictures from another folder, press BACK. Then, repeat steps 3 to 5.

7 Finish the procedure.



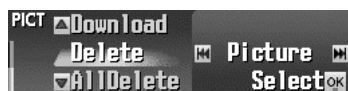
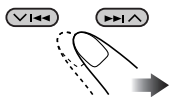
Deleting the files

■ Deleting the stored pictures and animations

1 Follow steps 1 to 5 on page 32.

- In step 3, select the picture size.
- Then in step 5, select “Delete.”

2 Select the file type—either “Picture” or “Movie.”

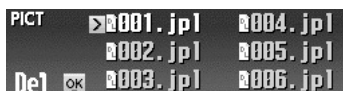
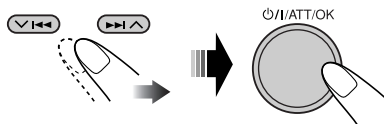


Ex.: When “Picture” is selected

3 • To delete the stored pictures



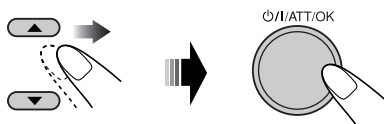
2 Select “Delete.”



The File List appears.

3 Select a file.

- You can move the other lists by pressing \leftarrow/\rightarrow (∇/\wedge).



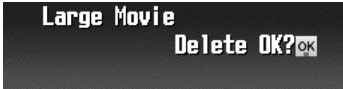
4



- When a file is deleted, the File List appears again.

5 Repeat steps 3 and 4 to delete more pictures.

• To delete the stored animation

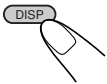


Ex.: When "Large" is selected for the picture size



• When the animation is deleted, the PICT menu appears again.

4 Finish the procedure.



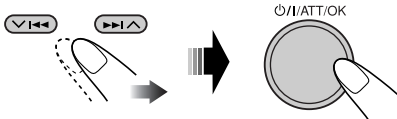
■ Deleting all the stored pictures and animations for each size

To delete all the stored pictures

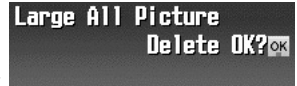
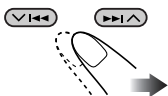
You can delete all stored pictures of each size ("Large" or "Small").

- Follow steps 1 to 5 on page 32.
 - In step 3, select the picture size.
 - Then in step 5, select "Delete."

2 Select "Picture."



3 Select "AllDelete."

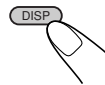


Ex.: When "Large" is selected for the picture size



• When all pictures are deleted, the PICT menu appears again.

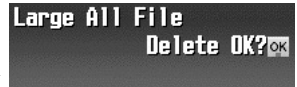
6 Finish the procedure.



To delete all the stored files

You can delete all stored pictures and animations of each size ("Large" or "Small").

- Follow steps 1 to 5 on page 32.
 - In step 3, select the picture size.
 - Then in step 5, select "AllDelete."

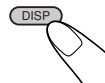


Ex.: When "Large" is selected for the picture size



• When all files are deleted, the PICT menu appears again.

4 Finish the procedure.



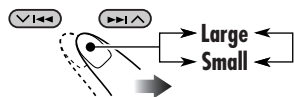
Activating the downloaded files


1 Enter the PSM menu (see page 5).

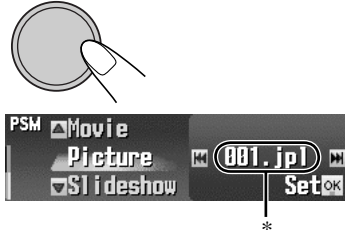
2 Select “PICT.”



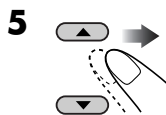
3 Select the picture size you want to activate—“Large” or “Small.”



4 



* If there is no still images or animation downloaded, you can only select “Default.”

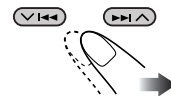


Picture: One of your edited still images stored in “Picture” is activated.
→ Go to step **6**.

Slideshow: All stored still images are activated and shown in sequence (UserSlide).
→ Go to step **7**.

Movie: Your edited animation stored in “Movie” is activated.
→ Go to step **6**.

6 Select a file.



- For “Movie,” select either “Default” or “UserMovie.” (If no animation is stored, you can only select “Default.”)

7 Finish the procedure.



- To activate the file for the other size, repeat steps **1** to **7**.

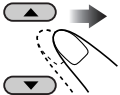
General settings — PSM

Basic procedure

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

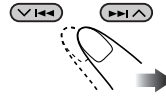
1 Enter the PSM menu (see page 5).

2 Select a PSM item.



Ex.: When “Scroll” is selected

3 Adjust the setting.



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

5 Finish the procedure.



Indications	Selectable settings, [reference page]
Demo/Link Display demonstration	Demo: [Initial]; Display demonstration (animation) appears. ImageLink: To show a still image while playing back an MP3/WMA track, [13, 15, 47]. Off: Cancels. • These graphics appear if no operation is done for about 45 seconds.
WallPaper Wall paper	You can select the background screen of the display window. Standard 1 [Initial] Standard 2 Standard 3 ⏪ (back to the beginning)
LevelMeter Audio level meter	You can select the level meter. Meter1 [Initial] Meter2 Meter3 ⏪ (back to the beginning) • Press DISP repeatedly to show the selected level meter.
PICT Pictures	You can activate the graphic screen using either movie or picture, [36]. Select the picture size first. Large: [Initial]; 256 x 64 pixel (full screen size) Small: 64 x 64 pixel (CD jacket image) After select the picture size, you can select one of the following items separately for “Large” and “Small.” Picture: [Initial]; One of your edited still images stored in “Picture” is activated. Slideshow: All stored still images are activated and shown in sequence (UserSlide). Movie: Your edited animation stored in “Movie” is activated. • Press DISP repeatedly to show the selected graphics.

To be continued...

Indications	Selectable settings, [reference page]
Clock Hr Clock hour	1 – 12 (0 – 23), [9] [Initial: 1 (1:00 AM)]
Clock Min Clock minute	00 – 59, [9] [Initial: 00 (1:00 AM)]
24H/12H Clock system	12H (Hours) \rightleftharpoons 24H (Hours), [9] [Initial: 12H]
Scroll Scroll mode	The entire text information can be shown by scrolling if it cannot be shown at a time. Once: [Initial]; Scrolls only once. Auto: Repeats scrolling (in 5-second intervals). Off: Cancels. • Holding DISP for more than one second can scroll the display regardless of the setting.
Dimmer Dimmer mode	Auto: [Initial]; Dims the display when you turn on the headlights. Time Set: Sets the timer for dimmer, [40]. Off: Cancels. On: Activates dimmer.
From-To *1 Dimmer time	Any hour – Any hour, [40] [Initial: 6PM – 7AM]
Bright Brightness	1 – 8: Adjust the display brightness to make the display indications clear and legible. [Initial: 8]
Tag Tag display	On: [Initial]; To show the ID3 tag display while playing MP3/WMA tracks, [13, 14, 16]. Off: Cancels.

Indications	Selectable settings, [reference page]
IF Filter Intermediate frequency filter	Auto: <i>[Initial]</i> ; Increases the tuner selectivity to reduce interference noises between the stations. (Stereo effect will be lost.) Wide: Subject to the interference noises from adjacent stations, but sound quality will not be degraded. (Stereo effect will not be lost.)
Ext Input *2 External input	Changer: <i>[Initial]</i> ; To use a JVC CD changer, [14]. Ext Input: To use any external component other than above, [43].
Beep Key-touch tone	On: <i>[Initial]</i> ; Activates the key-touch tone. Off: Deactivates the key-touch tone.
Telephone Telephone muting	Muting1/Muting2: Select either one which mutes the sounds while using the cellular phone. Off: <i>[Initial]</i> ; Cancels. <ul style="list-style-type: none"> • If CD or CD changer has been selected as the source, playback pauses during telephone muting.
Amp Gain Amplifier gain control	You can change the maximum volume level of this receiver. HighPower: <i>[Initial]</i> ; Volume 00 – Volume 50 Low Power: Volume 00 – Volume 30 (Select this if the maximum power of the speaker is less than 70 W to avoid damaging the speakers.) Off: Deactivates the built-in amplifier.

*1 *Displayed only when "Dimmer" is set to "Time Set."*

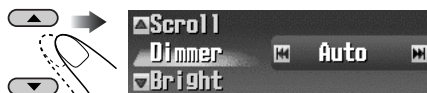
*2 *Cannot be selected if the source is "CD-CH" or "EXT-IN."*

Selecting the dimmer mode

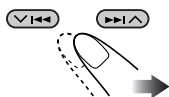
You can dim the display at night or as you set the timer.

1 Enter the PSM menu (see page 5).

2 Select “Dimmer.”



3 Select a setting.



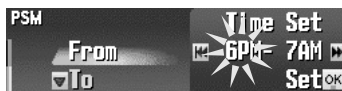
Auto: Dims the display when you turn on the headlights.
→ Go to step **6**.

Time Set: Sets the timer for dimmer.
→ Go to step **4**.

Off: Cancels.
→ Go to step **6**.

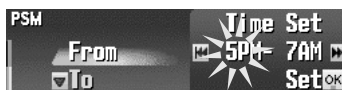
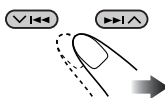
On: Always dims the display.
→ Go to step **6**.

4 Enter the Time Set screen.

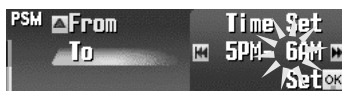
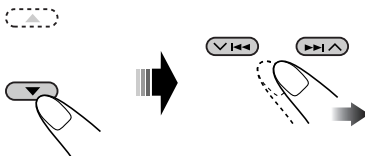


5 Adjust the dimmer time.

1 Set the dimmer start time.



2 Set the dimmer end time.



6 Finish the procedure.



Other main functions

Assigning titles to the sources

You can assign titles to station frequencies, CDs (both in this receiver and in the CD changer), and the external components.

Sources	Maximum number of characters
Station frequencies	Up to 16 characters (up to 30 station frequencies including both FM and AM)
CDs/CD-CH*	Up to 32 characters (up to 30 discs)
External components	Up to 16 characters

* You cannot assign a title to a CD Text or an MP3/WMA disc.

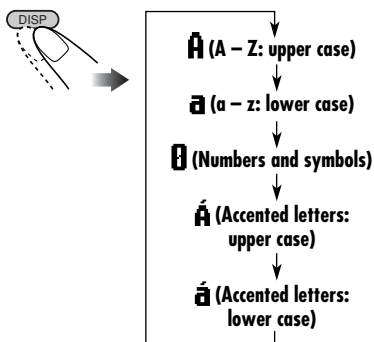
1 Select the source.

- For FM/AM tuner: Select a station.
- For a CD in this receiver: Insert a CD.
- For CDs in the CD changer: Select "CD-CH," then select a disc number.
- For external components: Select "EXT-IN" or "LINE-IN" (see page 43).

2 Enter the TITLE menu (see page 5).

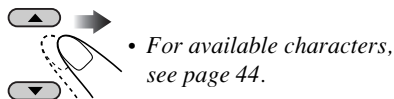
3 Assign a title.

1 Select a character set.

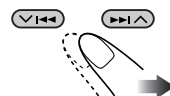


Ex.: When you assign a title to a CD

2 Select a character.



3 Move to the next (or previous) character position.



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

4 Finish the procedure.



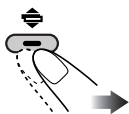
- To cancel the title entry without registration, press **MENU**.

To erase the entire title

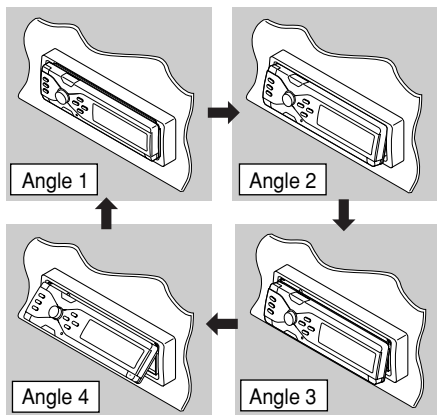
In step 3 on the left...



Changing the control panel angle



The control panel changes its angle as follows:



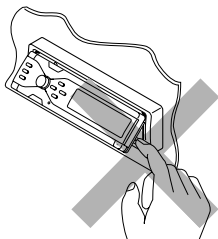
When using the remote controller...

ANGLE



Caution:

Do not insert your finger behind the control panel.

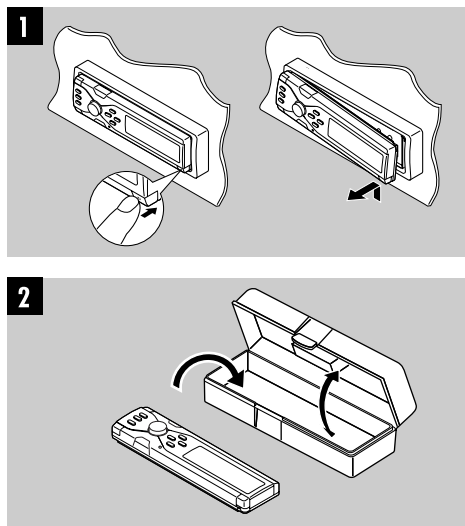


Detaching the control panel

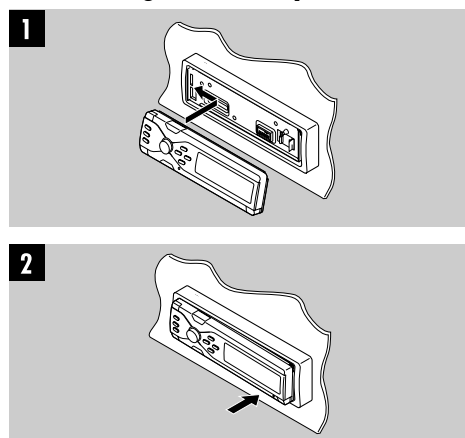
When detaching or attaching the control panel, be careful not to damage the connectors on the back of the control panel and on the panel holder.

■ Detaching the control panel

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

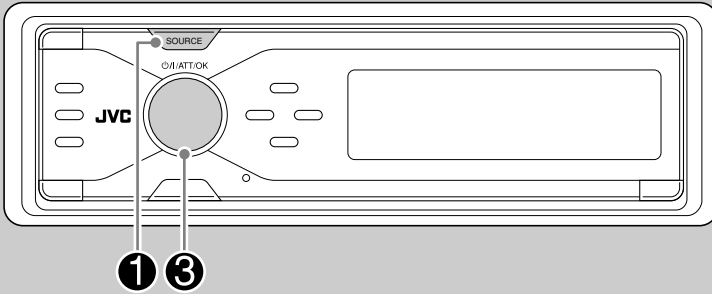


■ Attaching the control panel



External component operations

Playing an external component

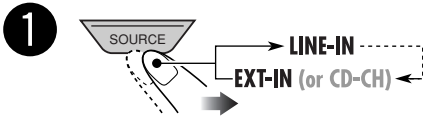


You can connect an external component to the LINE IN plugs on the rear.

You can also connect an external component to the CD changer jack on the rear using the Line Input Adapter KS-U57 (optionally purchased) or Aux Input Adapter KS-U58 (optionally purchased).

Before operating the external component, select the external input correctly (see page 39).

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



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



EXT-IN: For selecting the external component connected to the CD changer jack.



- If you have changed the “Ext Input” setting to “Changer” (see page 39), you cannot select “EXT-IN.”

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

3 Adjust the volume.

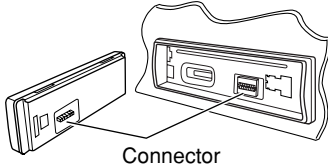


4 Adjust the sound as you want. (See pages 21 – 31.)

Maintenance

How to clean the connectors

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



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 receiver 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, benzene, 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 receiver may reject the disc.



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

How to handle SD card

SD cards are precision products. DO NOT impact, bend, drop, or wet them.

Available character

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

- You can also use the following characters to assign titles (see page 41).

Accented letters: upper case

Á	À	Ä	Ã	Å	Æ	Œ	Č	Ć	Ç	É	È	Ê
Ë	Ĝ	Í	Î	Ï	Ñ	Ó	Ô	Õ	Ø	Ř		
Š	Ś	Ş	Ú	Û	Ü	Ý	Ž	Ž	ß	Þ	Ɔ	
Đ	Ʀ	Ł	ı	U	đ	space						

Accented letters: lower case

á	à	â	ä	ã	å	æ	œ	č	ć	ç	é	è	ê
ë	ğ	í	î	ï	ñ	ń	ñ	ó	ô	õ	ø		
š	ś	ş	ú	û	ü	ý	ž	ž	ß	þ	Ɔ		
ý	ÿ	ž	ž	ÿ	þ	ŀ	ł	ı	ij	space			

Numbers and symbols

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

Do not use the following discs:

Warped disc



Sticker



Sticker residue

Disc



Stick-on label

More about this receiver

Basic operations

Turning on the power

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

Turning off the power

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

Selecting the source

- When no disc or SD card is loaded in the receiver, “CD” or “SD” cannot be selected.
- Without connecting to CD changer, “CD-CH” cannot be selected.
- To select the “EXT-IN” for the playback source, set the “Ext Input” setting correctly (see page 39).

Tuner operations

Storing stations in memory

- During SSM search...
 - All previously stored stations are erased and stations are stored newly.
 - Received stations are preset in No. 1 (lowest frequency) to No. 6 (highest frequency).
 - When SSM is over, the station stored in No. 1 will be automatically tuned in.
- When storing a station manually, a previously preset station is erased when a new station is stored in the same preset number.

Disc/SD card operations

Caution for DualDisc playback

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

General

- This receiver has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/CD-RWs (Rewritable) in audio CD (CD-DA), MP3 and WMA format and MP3/WMA files recorded in an SD card.
- When a disc or an SD card has been loaded, selecting “CD” or “SD” for the playback source starts playback.

Inserting a disc

- When a disc is inserted upside down, the control panel moves down, and the disc automatically ejects from the loading slot.
- If you keep the control panel open for about 1 minute, (beeps sound when the “Beep” setting is turned “On”—see page 39) the control panel returns to its previous position.

Playing a disc/SD card

- While playing an audio CD: If a title has been assigned to the audio CD (see page 41), it will be shown on the display.
- While fast-forwarding or reversing an MP3 or WMA track, you can only hear intermittent sounds.
- While playing an SD card, the playback order may differ from the one played back using other SD players.
- This receiver may be unable to play back some SD cards due to their characteristics or recording conditions.
- This receiver cannot play back mini SD card and MMC.
- If the inserted SD card does not have the correct files, you cannot select “SD” for the playback source.

To be continued...

Playing a CD-R or CD-RW

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

Playing an MP3/WMA track

- This receiver can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This receiver can show the names of albums, artists (performer), and ID3 Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and for WMA files.

- This receiver can display only one-byte characters. No other characters can be correctly displayed (see page 44).
- This receiver can play back MP3/WMA files meeting the conditions below:
 - Bit rate: 8 kbps — 320 kbps
 - Sampling frequency:
 - 48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
 - 24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
 - 48 kHz, 44.1 kHz, 32 kHz (for WMA)
 - Disc format: ISO 9660 Level 1/ Level 2, Romeo, Joliet, Windows long file name
- For MP3/WMA discs:
 - The maximum number of characters for file/folder names vary among the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
 - ISO 9660 Level 1: up to 12 characters
 - ISO 9660 Level 2: up to 31 characters
 - Romeo*: up to 128 (72) characters
 - Joliet*: up to 64 (36) characters
 - Windows long file name*: up to 128 (72) characters
 - * *The parenthetic figure is the maximum number of characters for file/folder names in case the total number of files and folders is 313 or more.*
- For SD cards:
 - The maximum number of characters for folder name is 8 characters; file name is 12 characters.
 - The receiver cannot recognize folder with period (.) on the folder name.
- This receiver can recognize the total of 512 files, of 200 folders, and of 8 hierarchies of an MP3/WMA disc; 255 files and 63 folders of an SD card.
- This receiver can play back the files recorded in VBR (variable bit rate).
 - The files recorded in VBR have a discrepancy in elapsed time display, and do not show the actual elapsed time. Especially, after performing the search function, this difference becomes noticeable.

- This receiver cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded in an unappropriated format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded with lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA files copy-protected with DRM.
 - Files which have the data such as WAVE, ATAC3, etc.
- The search function works but search speed is not constant.

Changing the source

- If you change the source, playback also stops (without ejecting the disc).
Next time you select “CD,” “SD,” or “CD-CH” for the playback source, playback starts from where it has been stopped previously.

ImageLink

- “Large” ImageLink screen will be temporarily changed to source operation screen when you operate the receiver.
- ImageLink will not work in the following cases:
 - If no <jpw> file is included in an MP3/WMA folder.
 - If Intro Scan is activated.
 - If the source is changed to another from “CD” or “SD.”
- If more than one <jpw> 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.)

Sound adjustments — Daily use

Selecting the DSP modes—DSP

- Effectiveness of “V.Cancel” depends on the recording condition of the sources. Especially, if you play back the following sources you cannot get the satisfactory results.
 - Monaural sources such as AM and monaural FM broadcasting programs,
 - Multiplex sound sources, and
 - Sources recorded with duets, strong echo, a chorus, or only a few instruments.
- When “4ch” is selected, rear speakers are used only to reproduce reflections and reverberations in order to create a being-there feeling in your car compartment.
- If fader or balance has been set close to its extreme, appropriate effect may not be obtained.
- When “Defeat” is selected with crossover network activated, the effect level and the speaker number setting screens will not appear.

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 MENU to go back to the operation screen of the current source. Adjustment you made remains effective until you select a sound mode.

Sound adjustments

— Preference settings

Setting the basic sound selection menu—SEL

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

To be continued....

Graphic displays

General

- You can display two sizes of pictures and animations (see page 5).
 - Large: <jpl> for the still pictures and <jpa> for the animations;
The image can be shown as the display background.
 - Small: <jpm> for the still pictures and <jpb> for the animations;
The image is displayed like a CD jacket (in the same proportion of CD jacket).

Downloading (or deleting) files

- You can download a file only while selecting “CD” or “SD” for the playback source; on the other hand, you can delete a file while selecting any source.
- If you have already downloaded an animation, downloading a new animation deletes the previously stored animation.
- It takes a long time to download files.
 - About 6 seconds for a still image (one frame).
 - About 6 minutes for an animation of 60 frames.
- If a disc inserted does not include any <jpl>, <jpm>, <jpa>, and <jpb> files, beeps sound when you try to operate the downloading procedure.
- If you try to store the 17th image for picture screen for each “Large” and “Small” size, “Picture Full” appears and you cannot start downloading. Delete unwanted files before downloading.

General settings — PSM

- To set the “PICT” setting as you like, download the required files before setting. If “Default” (for “Picture” and “Movie”) and “No Slide” (for “Slideshow”) cannot be changed to other options, required files have not been downloaded.
- “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 you change the “Amp Gain” setting from “HighPower” to “Low Power” while the volume level is set higher than “30,” the receiver automatically changes the volume level to “30.”

Other main functions

Assigning titles to the sources

- If you try to assign a title to a 31st disc or a 31st station frequency, “Name Full” appears and you cannot enter the text entry mode. Delete unwanted titles before assignment.
- Titles assigned to discs in the CD changer can also be shown if you play back the disc in the receiver.

Troubleshooting

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

	Symptoms	Causes	Remedies
General	<ul style="list-style-type: none"> • Sound cannot be heard from the speakers. 	<p>The volume level is set to the minimum level.</p> <p>Connections are incorrect.</p>	<p>Adjust it to the optimum level.</p> <p>Check the cords and connections.</p>
	<ul style="list-style-type: none"> • The receiver does not work at all. 	<p>The built-in microcomputer may have functioned incorrectly due to noise, etc.</p>	<p>Reset the receiver (see page 2).</p>
	<ul style="list-style-type: none"> • “Connect Error” appears on the display. 	<p>The control panel is not attached correctly.</p>	<p>Remove the control panel, wipe the connector, then attach it again (see pages 42 and 44).</p>
	<ul style="list-style-type: none"> • “Push Reset” appears on the display and the control panel movement is frozen. 	<p>Something is blocking the control panel movement.</p>	<p>Reset the receiver (see page 2). If this does not work, check the installation.</p>
FM/AM	<ul style="list-style-type: none"> • SSM automatic presetting does not work. 	<p>Signals are too weak.</p>	<p>Store stations manually.</p>
	<ul style="list-style-type: none"> • Static noise while listening to the radio. 	<p>The antenna is not connected firmly.</p>	<p>Connect the antenna firmly.</p>
Disc playback	<ul style="list-style-type: none"> • CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped. 	<p>CD-R/CD-RW is not finalized.</p>	<ul style="list-style-type: none"> • Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	<ul style="list-style-type: none"> • Disc cannot be ejected. 	<p>Disc is locked.</p>	<p>Unlock the disc (see page 19).</p>
	<ul style="list-style-type: none"> • Disc cannot be recognized (“No Disc,” “Loading Error,” or “Eject Error” appears). 	<p>The CD player may have functioned incorrectly.</p>	<p>Eject the disc forcibly (see page 4).</p>
	<ul style="list-style-type: none"> • Disc sound is sometimes interrupted. 	<p>You are driving on rough roads.</p>	<p>Stop playback while driving on rough roads.</p>
		<p>Disc is scratched.</p> <p>Connections are incorrect.</p>	<p>Change the disc.</p> <p>Check the cords and connections.</p>

To be continued...

	Symptoms	Causes	Remedies
MP3/WMA disc/SD card playback	<ul style="list-style-type: none"> • “No Files” appears for a while, then the disc ejects. 	No MP3/WMA tracks are recorded.	Change the disc or the SD card.
		MP3/WMA tracks do not have the extension code <.mp3> or <.wma> in their file names.	Add the extension code <.mp3> or <.wma> to their file names.
		MP3/WMA tracks are not recorded in the format compliant with ISO 9660 Level 1, Level 2, Romeo, or Joliet.	Change the disc or the SD card. (Record MP3/WMA tracks using a compliant application.)
	<ul style="list-style-type: none"> • Noise is generated. 	The track played back is not an MP3/WMA track (although it has the extension code <.mp3> or <.wma>).	Skip to another track or change the disc or the SD card. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	<ul style="list-style-type: none"> • Elapsed playing time is not correct. 	This sometimes occurs during play. This is caused by how the tracks are recorded.	_____
	<ul style="list-style-type: none"> • “Not Support” appears on the display and track skips. 	<ul style="list-style-type: none"> • Tracks are not encoded in an appropriate format. • Copy-protected WMA tracks cannot be played back. 	Skip to the next track.
	<ul style="list-style-type: none"> • “No Music” appears on the display. 	<ul style="list-style-type: none"> • No MP3/WMA tracks are recorded on the disc. • Only <.jpl>, <.jpm>, <.jpa>, <.jpb>, <.jpw> files are recorded on the disc. 	Change the disc or the SD card (formatted in FAT 12/16).
	<ul style="list-style-type: none"> • “SD Loading Error” appears on the display. 	SD card is not inserted correctly.	Detach the control panel and reinsert the SD card. The control panel goes back to initial position (Angle 1); see page 42.
	<ul style="list-style-type: none"> • “Read Failed” appears on the display. 	Tracks are not encoded in an appropriate format.	Use SD card formatted in FAT 12/16.
		The SD card or tracks cannot be played back.	Change the SD card.
<ul style="list-style-type: none"> • Correct characters are not displayed (ex. album name). 	This receiver can only display a limited number of special characters (see page 44).	_____	

	Symptoms	Causes	Remedies
Sounds	<ul style="list-style-type: none"> DSP mode cannot be selected other modes than "Defeat." 	Crossover network is activated.	Deactivate crossover network (see page 28).
	<ul style="list-style-type: none"> Only high range sound or low range sound is reproduced though full range speakers are connected. 	Crossover network is activated.	Deactivate crossover network (see page 28).
Graphics	<ul style="list-style-type: none"> Download does not seem to finish. 	It takes quite a long time to download an animation of many frames (see page 48).	_____
PICT—PSM	<ul style="list-style-type: none"> The display graphic function does not work correctly. 	Temperature in the car compartment is very low.	Wait until the operating temperature resumes.
	<ul style="list-style-type: none"> The display screen dims. 	Temperature in the car compartment is high.	Turn off the power, and wait until the operating temperature resumes.
	<ul style="list-style-type: none"> You cannot activate "Slideshow" for "PICT" ("No Slide" is shown as the selectable item). 	No still images are downloaded yet.	Download a still image.
CD changer	<ul style="list-style-type: none"> "No Magazine" appears on the display. 	No magazine is loaded in the CD changer.	Insert the magazine.
	<ul style="list-style-type: none"> "No Disc" appears on the display. 	No disc is in the magazine.	Insert disc into the magazine.
		Disc is inserted upside down.	Insert disc correctly.
	<ul style="list-style-type: none"> "Reset 08" appears on the display. 	This receiver is not connected to the CD changer correctly.	Connect this receiver and the CD changer correctly and press the reset button of the CD changer.
	<ul style="list-style-type: none"> "Reset 01" – "Reset 07" appears on the display. 	The CD player may have functioned incorrectly.	Press the reset button of the CD changer.
	<ul style="list-style-type: none"> The CD changer does not work at all. 	The built-in microcomputer may function incorrectly due to noise, etc.	Reset the receiver (see page 2).

Specifications

AUDIO AMPLIFIER SECTION

Maximum Power Output:

Front: 70 W per channel

Rear: 70 W per channel

Continuous Power Output (RMS):

Front: 35 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Rear: 35 W per channel into 4 Ω , 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Load Impedance: 4 Ω (4 Ω to 8 Ω allowance)

Equalizer Control Range:

Frequencies:

Graphic EQ:

63 Hz, 125 Hz, 250 Hz, 500 Hz,
1 kHz, 2 kHz, 4 kHz, 8 kHz,
12.5 kHz (9 bands)

Parametric EQ:

3 bands (Band 1/2/3)
20 Hz, 25 Hz, 31.5 Hz, 40 Hz,
50 Hz, 63 Hz, 80 Hz, 100 Hz,
125 Hz, 160 Hz, 200 Hz, 250 Hz,
315 Hz, 400 Hz, 500 Hz, 630 Hz,
800 Hz, 1 kHz, 1.2 kHz, 1.6 kHz,
2 kHz, 2.5 kHz, 3.2 kHz, 4 kHz,
5 kHz, 6.3 kHz, 8 kHz, 10 kHz,
12.5 kHz, 16 kHz, 20 kHz
(31 frequencies)

Level: ± 10 dB

Frequency Response: 40 Hz to 20 000 Hz

Line-In Level/Impedance:

LINE IN: 1.5 V/20 k Ω load

Line-Out Level/Impedance:

LINE OUT: 5.0 V/20 k Ω load (full scale)

Output Impedance: 1 k Ω

Power Supply Unit: DC/DC converter

Other Terminals:

SUBWOOFER OUT

Changer control

TUNER SECTION

Frequency Range:

FM: 87.5 MHz to 108.0 MHz

AM: 531 kHz to 1 602 kHz

[FM Tuner]

Usable Sensitivity: 11.3 dBf (1.0 μ V/75 Ω)

50 dB Quieting Sensitivity:

16.3 dBf (1.8 μ V/75 Ω)

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 μ V

Selectivity: 65 dB

CD/SD 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® Audio):

Max. Bit Rate: 192 kbps

Playable SD Card:

Format: FAT 12/16

Storage: Up to 512 MB

Playable Audio Format for SD Card:

MP3/WMA

GENERAL

Power Requirement:

Operating Voltage:

DC 14.4 V (11 V to 16 V allowance)

Grounding System: Negative ground

Allowable Operating Temperature:

0°C to +40°C

Dimensions (W × H × D):

Installation Size (approx.):

182 mm × 52 mm × 159 mm

Panel Size (approx.):

188 mm × 58 mm × 13 mm

Mass (approx.):

1.7 kg (excluding accessories)

Design and specifications are subject to change without notice.

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

Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

หากมีปัญหาในการใช้งาน
กรุณาคัดปุ่มตั้งค่าเริ่มต้นใหม่
กรุณาดูหน้าวิธีตั้งค่าเครื่องใหม่

JVC



EN, TH

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0405MNMMDWJEIN

JVC KD-SHX855

Installation/Connection Manual

การติดตั้ง/คู่มือการติดตั้ง

LVT1373-006A
[U, UH]

0405MNMMDWJEIN
EN, TH

ENGLISH

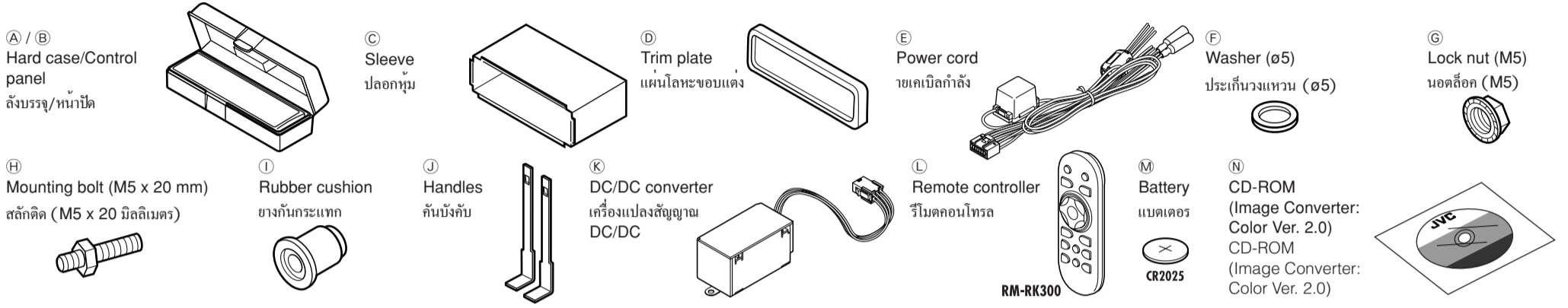
ไทย

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.

ชุดขงประกอบนี้ได้รับการออกแบบมาเพื่อใช้งานกับระบบ กระแสไฟฟ้าชนิดขั้วลบกระแสตรง **12 โวลต์** หากรถยนต์ของคุณไม่ใช้ระบบนี้ ต้องใช้เครื่องแปลงกระแสไฟขั้วลบ ซึ่งสามารถหาซื้อได้จากร้านขายเครื่องเสียงรถยนต์ JVC

Parts list for installation and connection

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



รายการส่วนประกอบสำหรับติดตั้งและเชื่อมต่อกัน

ส่วนประกอบต่อไปนี้ให้มาพร้อมกับชุดประกอบนี้ หลังจากตรวจสอบแล้ว โปรดตั้งเครื่องให้ถูกต้อง

INSTALLATION (IN-DASH MOUNTING)

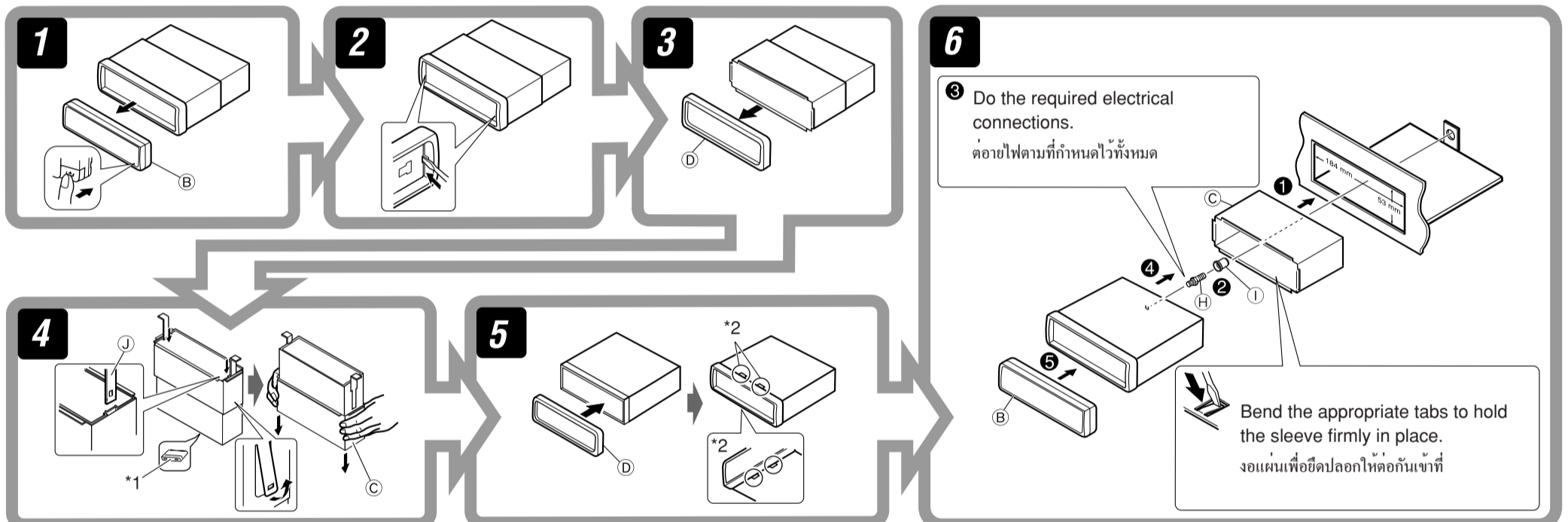
The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

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

การติดตั้ง (การประกอบแผงหน้าปัดหน้า)

ภาพตัวอย่างต่อไปนี้แสดงถึงการติดตั้งแบบทั่วไป หากคุณมีข้อสงสัยหรือต้องการข้อมูลเพิ่มเติมเกี่ยวกับชุดติดตั้ง กรุณาปรึกษานักขายเครื่องเสียงรถยนต์ JVC ของท่านหรือบริษัท

• ชุดประกอบ ถ้าคุณไม่แน่ใจว่าติดตั้งชุดประกอบนี้ถูกต้องหรือไม่ ให้หาช่างผู้เชี่ยวชาญเป็นผู้ติดตั้ง



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

*1 เมื่อคุณตั้งชุดประกอบขึ้น ระมัดระวังอย่าทำให้ฟิวส์บริเวณส่วนท้ายเสียหาย

*2 Fit the protrusions outside the unit.

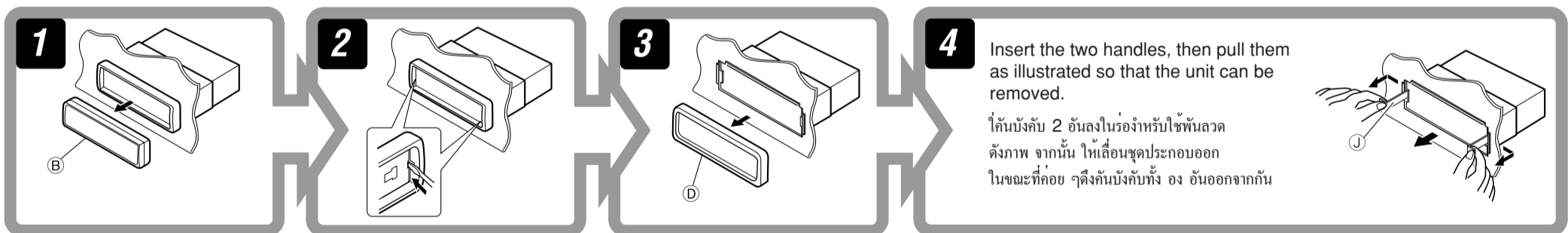
*2 ติดตั้งส่วนที่ยื่นออกมาที่ด้านนอกเครื่อง

Removing the unit

Before removing the unit, release the rear section.

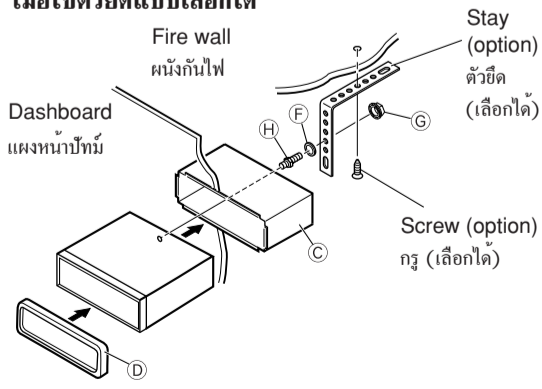
การถอดชุดประกอบ

ก่อนจะถอดชุดประกอบ ให้ปลดหน้าปัดด้านท้ายก่อน



When using the optional stay /

เมื่อใช้ตัวยึดแบบเลือกได้



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

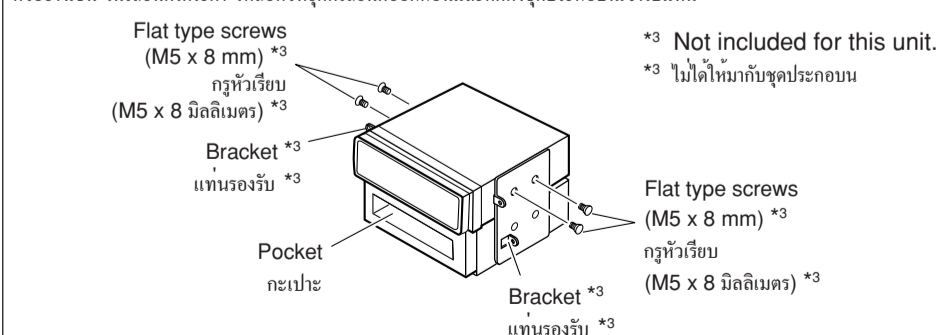
ติดตั้งชุดประกอบที่มุมต่ำกว่า 30 องศา

When installing the unit without using the sleeve /

เมื่อติดตั้งชุดประกอบโดยไม่ใช้ปลอกหุ้ม

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

ตัวอย่างเช่น ในรถยนต์โตโยต้า ให้ถอดวิทยุติดรถยนต์ออกก่อนและติดตั้งชุดประกอบนี้เข้าไปแทน



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

หมายเหตุ : เมื่อติดตั้งชุดประกอบลงในแท่นรองรับไว้ ให้ใช้กรูยาวขนาด 8 มิลลิเมตร ถ้าใช้กรูยาวกว่านี้อาจทำให้ชุดประกอบเสียหายได้

Caution when installing /

ข้อควรระวังเมื่อทำการติดตั้ง



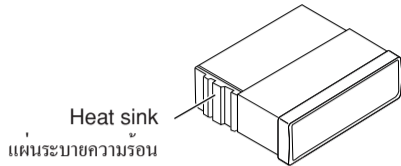
ELECTRICAL CONNECTIONS

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 70 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 70 W, change "Amp Gain" setting to prevent the speakers from being damaged (see page 39 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.



การเชื่อมต่อโดยใช้ไฟฟ้า

เพื่อป้องกันการเกิดไฟฟ้าลัดวงจร ขอแนะนำให้ปลดขั้วแบตเตอรี่ลบออก แล้วจึงต่อสายไฟก่อนติดตั้งเครื่อง

• **ตรวจสอบให้แน่ใจว่าได้เดินสายดินต่อระหว่างเครื่องกับตัวถัง รถยนต์ใหม่แล้วหลังจากติดตั้ง**

หมายเหตุ:

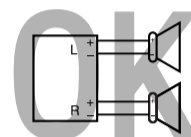
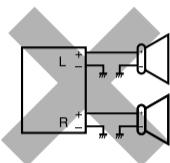
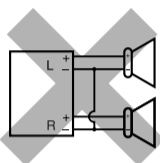
- ใช้ฟิวส์ที่เฉพาะแทนฟิวส์ หากฟิวส์ขาดบ่อย ให้ปรึกษาช่างขายเครื่องเสียงรถยนต์ JVC
- ขอแนะนำให้ต่อลำโพง ที่มีกำลังขั้วสูงสุดเกินกว่า 70 W (ทั้งด้านหน้าและด้านหลัง มีค่าความต้านทาน **4 Ω ถึง 8 Ω**) ถ้ากำลังขั้วต่ำกว่า 70 W ให้เปลี่ยนค่า "Amp Gain" เพื่อป้องกันไม่ให้ลำโพงชำรุด (ดูหน้า 39 คำแนะนำ)
- การป้องกันการลัดวงจร จะต้องพันขั้วสายตะกั่ว ที่ไม่ใช่แล้วด้วยเทป ปกป้องสายไฟ
- แผนระบายความร้อนจะร้อนมากหลังจากใช้ ระวังอย่าไป สัมผัสเมื่อถอดชุดประกอบ

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.**

ข้อควรระวังสำหรับการต่อแหล่งจ่ายกำลังและลำโพง:

- **อย่าต่อสายตะกั่วเคเบิลกำลังของลำโพงเข้ากับแบตเตอรี่รถยนต์ มิฉะนั้น ชุดประกอบจะได้รับความเสียหายมาก**
- **ก่อนที่จะต่อสายตะกั่วเคเบิลกำลังของลำโพงเข้ากับลำโพง ให้ตรวจสอบการเดินสายไฟในรถของคุณให้เรียบร้อยก่อน**



A Typical Connections / การเชื่อมต่อแบบปกติ

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.

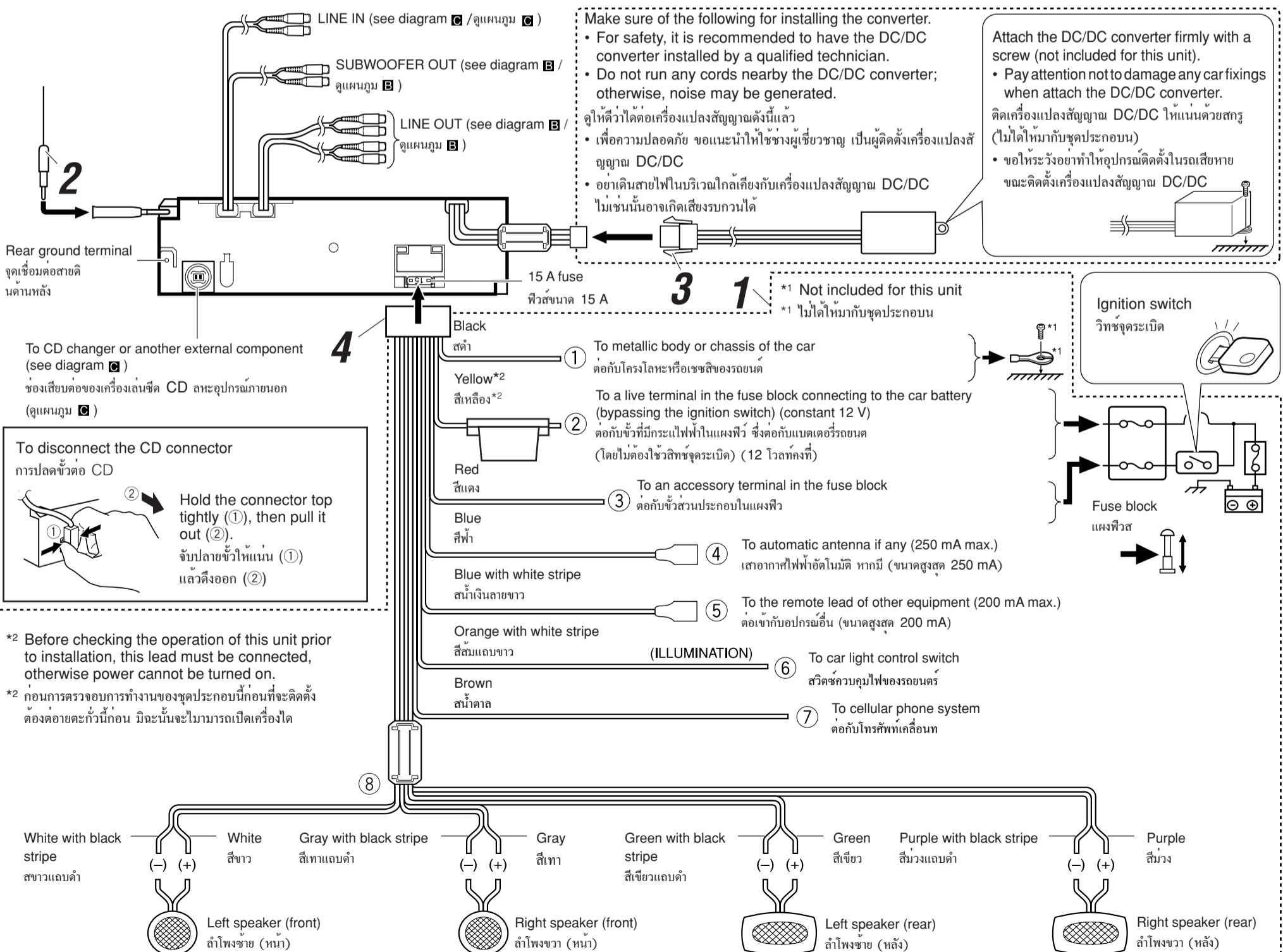
- 1 Connect the colored leads of the power cord in the order specified in the illustration below.
- 2 Connect the antenna cord.
- 3 Connect the supplied DC/DC converter for constant power supply to the unit.
- 4 Finally connect the wiring harness to the unit.

ก่อนทำการเชื่อมต่อ: ตรวจสอบการเดินสายไฟในรถของคุณอย่างระมัดระวังอย่าให้เกิดผิดพลาดการเชื่อมต่อที่ผิดพลาดอาจทำให้เกิดความเสียหายร้ายแรงแก่ชุดประกอบ

- 1 ต่อสายไฟตามลำดับที่ระบุในรูปด้านล่าง
- 2 เชื่อมต่อสายอากาศ
- 3 ต่อเครื่องแปลงสัญญาณ DC/DC ที่ให้มาพร้อมเครื่อง เพื่อแปลงสัญญาณไฟฟ้าเข้าเครื่อง
- 4 สุดท้าย ต่อส่วนควบคุมการเดินสายไฟเข้ากับชุดประกอบชุดนี้

If you have installed 3-way network speaker system in your car, see diagram D for speaker connection.

หากติดตั้งระบบลำโพงสามทิศทางในรถยนต์ ขอให้ดูแผนผัง D ในการต่อลำโพงด้วย



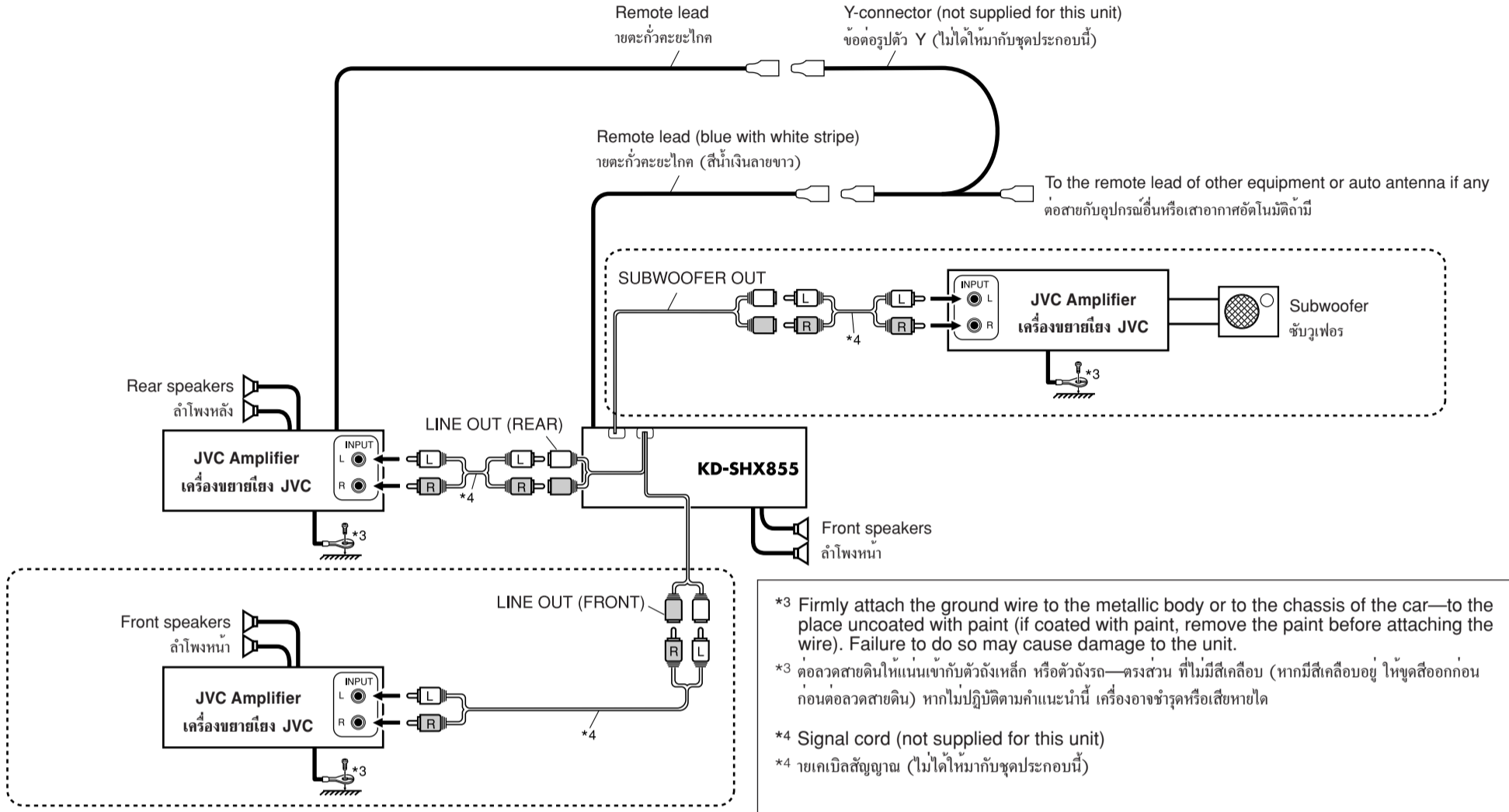
B Connecting the external amplifiers / การต่อเพิ่มเติมเข้ากับอุปกรณ์อื่น

You can connect amplifiers to upgrade your car stereo system.

- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
 - **For amplifier only:**
 - **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**
 - 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 39 of the INSTRUCTIONS).
 - 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.

คุณสามารถต่อกับแอมพลิฟายเออร์ และอุปกรณ์อื่น ๆ ได้ เพื่อเพิ่มคุณภาพเสียงให้กับระบบสเตอริโอของรถยนต์

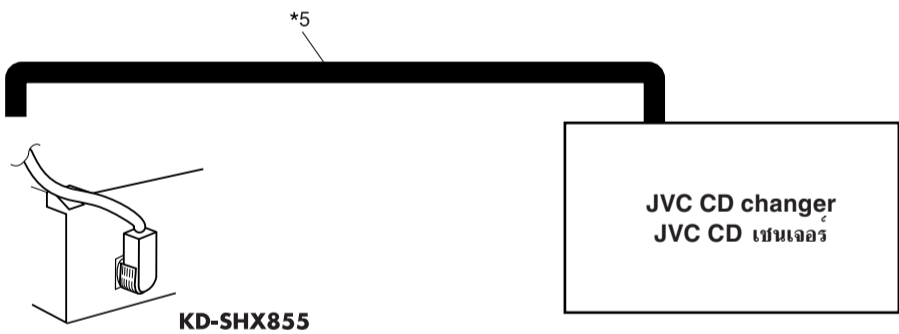
- ต่อสายตัวกระชาก (สีน้ำเงินลายขาว) เข้ากับสายตัวกระชากของอุปกรณ์อื่น ๆ เพื่อจะสามารถควบคุมโดยชุดประกอบนี้ได้
- **สำหรับแอมพลิฟายเออร์เท่านั้น:**
 - **ถอดลำโพงออกจากชุดประกอบนี้ แล้วต่อเข้ากับเครื่องขยาย ที่จ่ายตัวลำโพงของชุดประกอบนี้ไว้**
 - ท่านสามารถปิดแอมพลิฟายเออร์ ที่ติดตั้งอยู่ในเครื่อง แล้วส่งสัญญาณเสียงไปยัง แอมพลิฟายเออร์ภายนอกเพียงอย่างเดียวได้ เพื่อให้เสียงที่ได้คมชัด และป้องกันเครื่องไม่ไหม้ร้อน (ดูหน้า 39 คำแนะนำ)
 - สัญญาณออกจากเครื่องจะยังคงอยู่ในระดับสูง เพื่อให้เสียงที่ได้เป็นเสียงไฮ-ไฟ เมื่อต่อกับแอมพลิฟายเออร์ภายนอก ให้ปรับปุ่มควบคุมอัตราขยาย ที่แอมพลิฟายเออร์ภายนอก เพื่อให้เครื่องมีประสิทธิภาพการทำงานสูงสุด



- *3 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place uncoated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.
- *3 ต่อลวดสายดินให้แน่นเข้ากับตัวถังเหล็ก หรือตัวถังรถ—ตรงส่วน ที่ไม่มีสีเคลือบ (หากมีสีเคลือบอยู่ ให้ขูดสีออกก่อนก่อนต่อลวดสายดิน) หากไม่ปฏิบัติตามคำแนะนำนี้ เครื่องอาจชำรุดหรือเสียหายได้
- *4 Signal cord (not supplied for this unit)
- *4 ขั้วเคเบิลสัญญาณ (ไม่ได้ให้มากับชุดประกอบนี้)

C Connecting the external components / การต่อเพิ่มเติมเข้ากับอุปกรณ์อื่นๆ

JVC CD changer / JVC CD เซนเจอร์

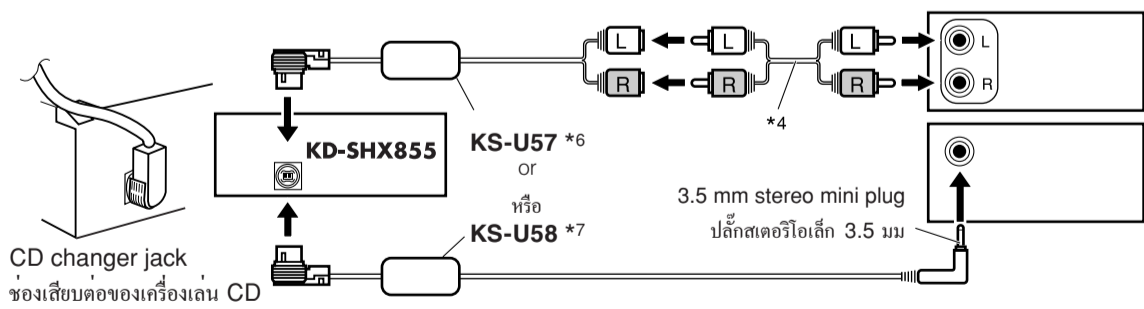


- *5 Connecting cord supplied for your JVC CD changer
- *5 ต่อสายที่ให้มาสำหรับ JVC CD เซนเจอร์

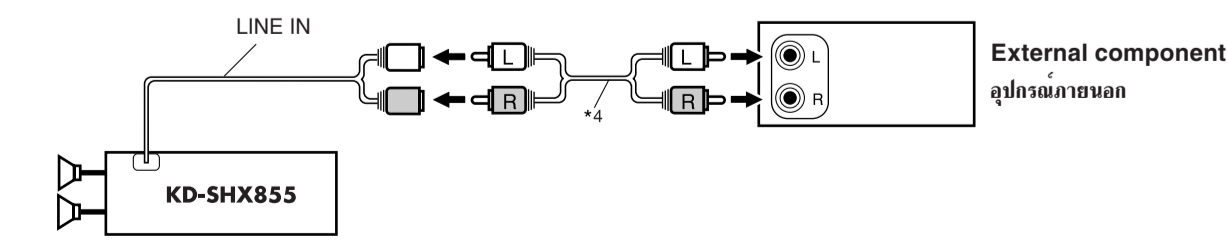
CAUTION / ข้อควรระวัง:

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

External component / อุปกรณ์ภายนอก



- *6 Line Input Adapter KS-U57 (optionally purchased)
- *6 อะแดปเตอร์ ขั้วสัญญาณเข้า KS-U57 (อุปกรณ์เสริมสำหรับซื้อเพิ่ม)
- *7 Aux Input Adapter KS-U58 (optionally purchased)
- *7 อะแดปเตอร์รับสัญญาณ Aux KS-U58 (อุปกรณ์เสริมสำหรับซื้อเพิ่ม)



D Speaker connections for 3-way network speaker system / การต่อลำโพงสำหรับระบบลำโพงสามทิศทาง

You can enjoy a world of "pure audio" in your car by connecting 3-way network speaker system (high-range/mid-range/subwoofer).

คุณสามารถเพลิดเพลินกับโลกของ ระบบเสียงสมบูรณแบบบ้ำ ในรถยนต์ได้ ด้วยการต่อระบบลำโพงสามทิศทาง (ซับวูเฟอร์/พิสัยสูง/พิสัยกลาง)

IMPORTANT:

If you have installed the 3-way network speaker system in the car, make sure of the following.

- Connect the speaker system as illustrated below.
- Before using the system, activate crossover network and preset the appropriate cutoff frequencies for HPF/LPF (especially for HPF); otherwise, it may damage the speakers.
- For details about the setting, see pages 28 – 31 of the INSTRUCTIONS.

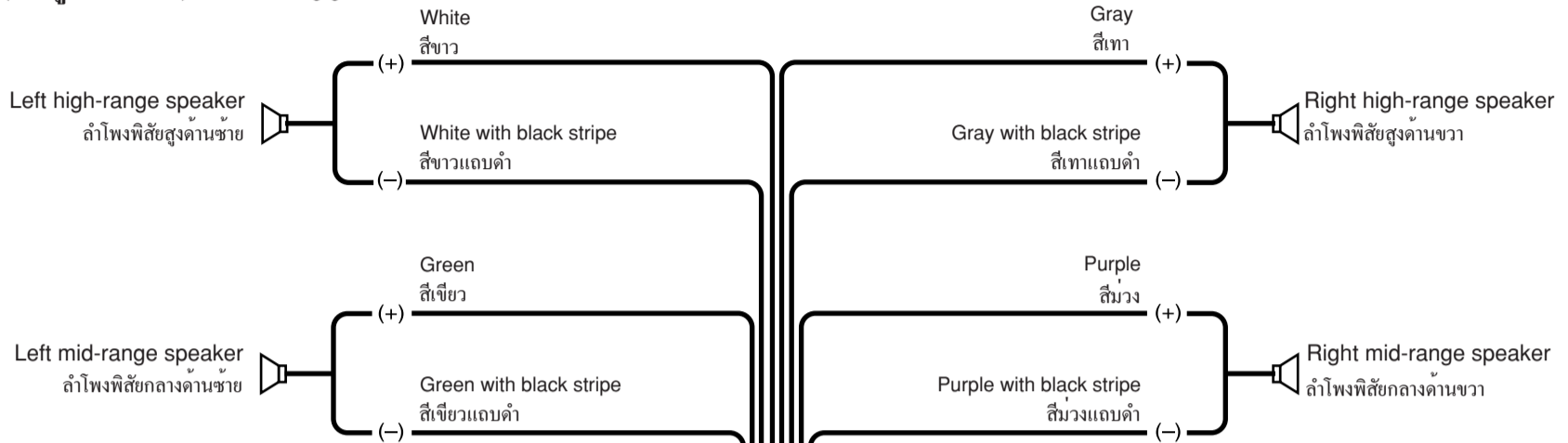
ข้อควรทราบที่สำคัญ:

หากติดตั้งระบบลำโพงสามทิศทางในรถยนต์ ขอให้ดูจุดต่อไปนี้ให้ดี

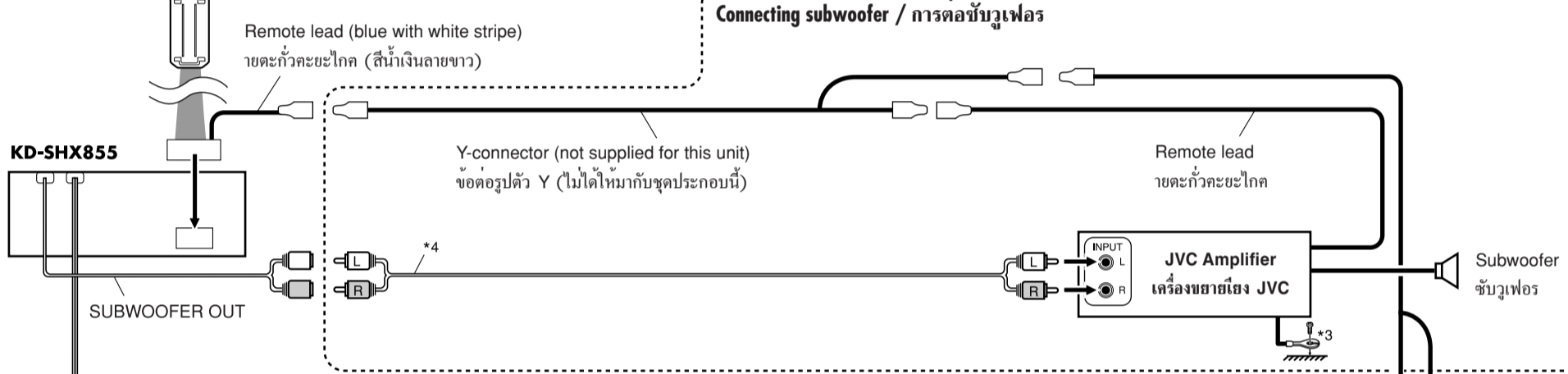
- การต่อสายระบบลำโพงตามรูป
- ก่อนใช้งานระบบ ขอให้เปิดระบบข้ามเครือข่าย และตั้งคลื่นความถี่ตัดสำหรับ HPF/LPF ก่อน (โดยเฉพาะสำหรับ HPF) ไมเช่นนั้นลำโพงอาจเสียได้
- ดูรายละเอียดในการตั้งค่าได้ในคู่มือการใช้งานหน้า 28 – 31

When connecting the speakers (high-range/mid-range) through the speaker output

เมื่อจะต่อลำโพง (พิสัยสูง/พิสัยกลาง) ผ่านขั้วส่งสัญญาณออกลำโพง

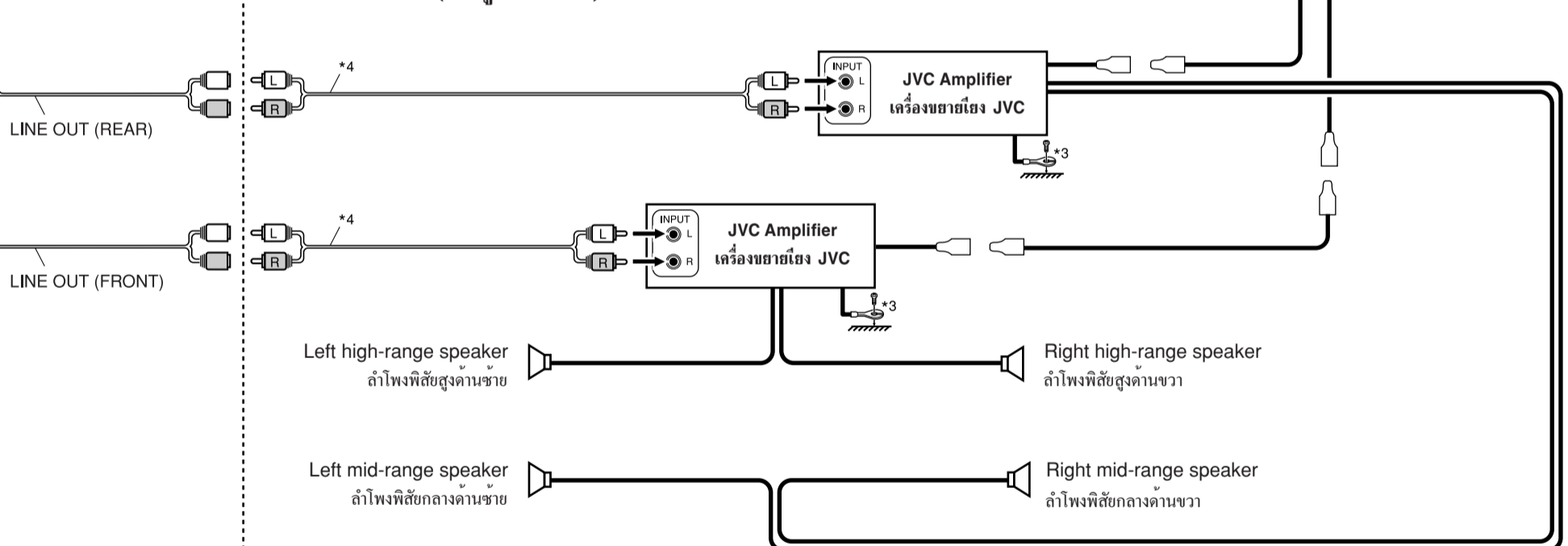


Connecting subwoofer / การต่อซับวูเฟอร์



When connecting the speakers (high-range/mid-range) through the external amplifiers — to obtain more powerful sound

เมื่อจะต้องต่อลำโพง (พิสัยสูง/พิสัยกลาง) ผ่านเครื่องขยายเสียงภายนอก เพื่อให้เสียงที่ได้มีพลังมากขึ้น



TROUBLESHOOTING

- **The fuse blows.**
 - * Are the red and black leads connected correctly?
- **Power cannot be turned on.**
 - * Is the yellow lead connected?
- **No sound from the speakers.**
 - * Is the speaker output lead short-circuited?
- **Sound is distorted.**
 - * Is the speaker output lead grounded?
 - * Are the "-" terminals of L and R speakers grounded in common?
- **Noise interfere with sounds.**
 - * Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?
- **This unit becomes hot.**
 - * Is the speaker output lead grounded?
 - * Are the "-" terminals of L and R speakers grounded in common?
- **This unit does not work at all.**
 - * Have you reset your unit?

การตรวจสอบปัญหาเบื้องต้น

- **ฟิวส์ขาด**
 - * มีการเชื่อมสายตะกั่วสีแดงและสีดำอย่างถูกต้องหรือไม่
- **ไม่สามารถเปิดเครื่องได้**
 - * มีการเชื่อมสายตะกั่วสีเหลืองหรือไม่
- **ไม่มีเสียงออกจากลำโพง**
 - * สายตะกั่วส่วนที่ออกจากลำโพงเกิดไฟฟ้าลัดวงจรหรือไม่
- **เสียงเพี้ยน**
 - * สายตะกั่วส่วนที่ออกจากลำโพงต้องลงดินหรือไม่
 - * สายขั้วลบของลำโพงด้านซ้าย (L) และขวา (R) ต้องลงดินตามปกติหรือไม่
- **เสียงรบกวน**
 - * มีการใช้สายสั้นๆ หรือหนาๆ ต่อจากเครื่องส่วนที่ติดตั้งไว้บนพื้นด้านหลังกับตัวถังรถยนต์หรือไม่
- **ชุดประกอบร้อนขึ้น**
 - * สายตะกั่วส่วนที่ออกจากลำโพงต้องลงดินหรือไม่
 - * สายขั้วลบของลำโพงด้านซ้าย (L) และขวา (R) ต้องลงดินตามปกติหรือไม่
- **เครื่องรับนี้ทำงานไม่**
 - * ทานได้ตั้งเครื่องใหม่หรือยัง

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