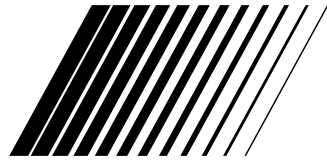


JVC



CD RECEIVER

KD-SX985/KD-SX885

ENGLISH

CD 收音組合機

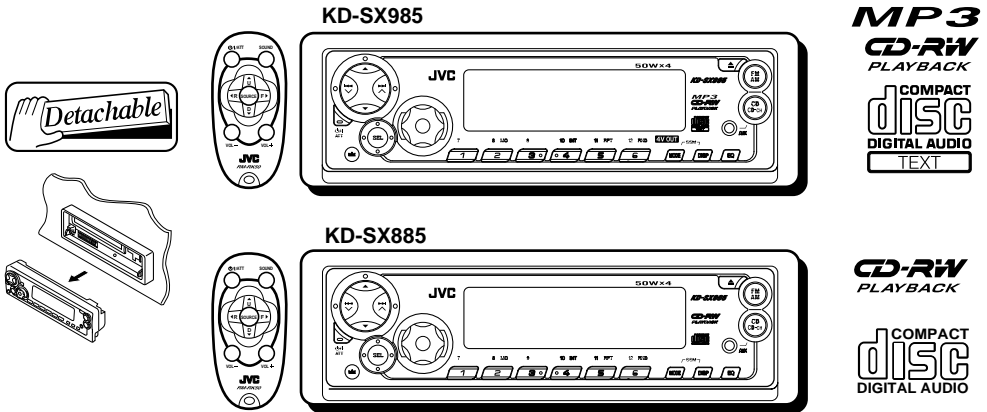
KD-SX985/KD-SX885

中文

ถอดใส่ที่ค

KD-SX985/KD-SX885

ไทย



For installation and connections, refer to the separate manual.

有關安裝和連接方法，分別參閱操作手冊。

กรุณาดูคู่มือที่แยกต่างหาก ในการติดตั้งและการเชื่อมต่อ

INSTRUCTIONS

使用說明書
คำแนะนำ

IMPORTANT FOR LASER PRODUCTS

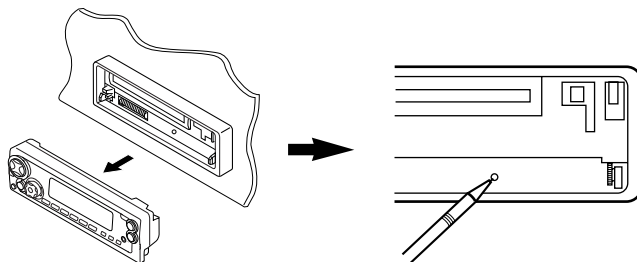
Precautions:

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the top cover. There are no user-serviceable parts inside. Leave all servicing to qualified service personnel.
4. **CAUTION:** This CD player uses invisible laser radiation and is equipped with safety switches to prevent radiation emission when unloading CDs. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

How to reset your unit

After detaching the control panel, press the reset button on the panel holder using a ball-point pen or similar tool.

This will reset the built-in microcomputer.



Note:

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

CAUTION on Volume Setting:

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

BEFORE USE

***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.

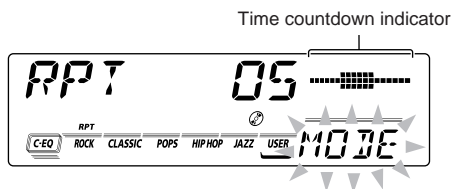
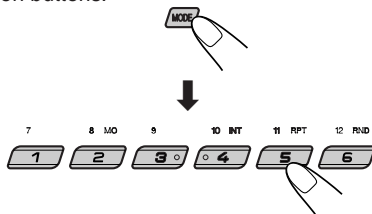
Thank you for purchasing a JVC product. Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

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How to use the MODE button:

If you press MODE, the unit goes into functions mode and the number buttons work as different function buttons.



Ex.: When you press button 5 to enter the RPT function mode.

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

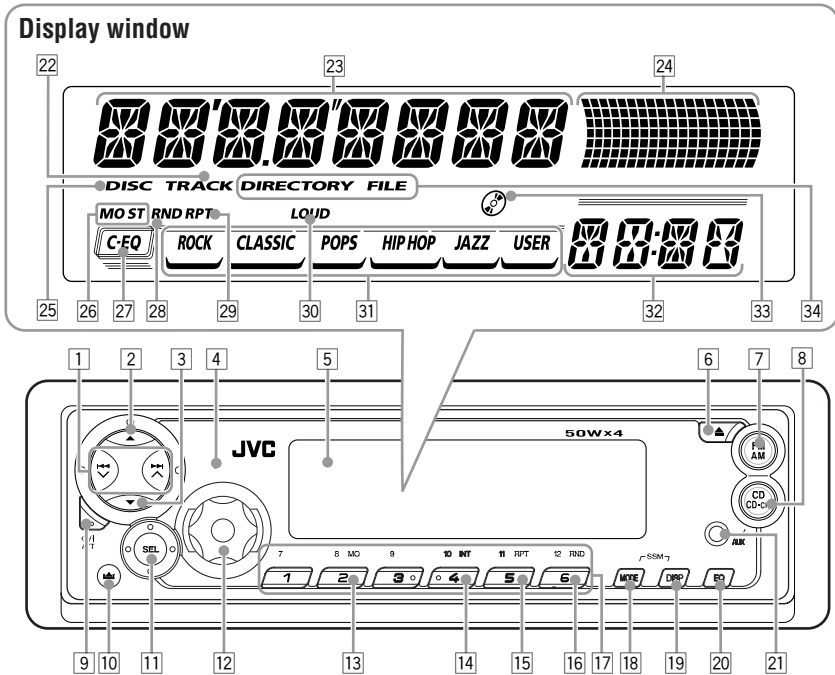
- Pressing MODE again also clears the functions mode.



LOCATION OF THE BUTTONS

ENGLISH

Control panel



- 1 ◀◀ ▼/▶▶ ▲ buttons
- 2 ▲ (up) button
- 3 ▼ (down) button
- 4 Remote sensor
- 5 Display window
- 6 ▲ (eject) button
- 7 FM AM button
- 8 CD CD-CH (AUX) button
- 9 ⏻/⏻/ATT (standby/on/attenuator) button
- 10 🗑️ (control panel release) button
- 11 SEL (select) button
- 12 Control dial
- 13 MO (monaural) button
- 14 INT (intro) button
- 15 RPT (repeat) button
- 16 RND (random) button
- 17 Number buttons
- 18 MODE button
 - Also functions as SSM buttons when pressed together with DISP (display) button.
- 19 DISP (display) button
 - Also functions as SSM buttons when pressed together with MODE button.

- 20 EQ (equalizer) button
- 21 AUX (auxiliary) input

Display window

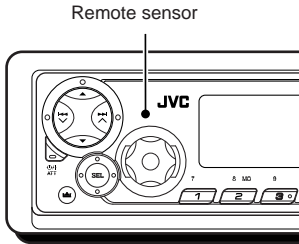
- 22 TRACK indicator (only for KD-SX985)
- 23 Main display
- 24 Volume (or audio) level meter
- 25 DISC indicator (only for KD-SX985)
- 26 Tuner reception indicators
MO (monaural), ST (stereo)
- 27 C-EQ (custom equalizer) indicator
- 28 RND (random) indicator
- 29 RPT (repeat) indicator
- 30 LOUD indicator
- 31 Sound mode indicators
ROCK, CLASSIC, POPS, HIP HOP, JAZZ, USER.
- 32 Source/clock display
- 33 CD-in indicator
- 34 MP3 indicators (only for KD-SX985)
DIRECTORY, FILE



Preparing the remote controller

Before using the remote controller:

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



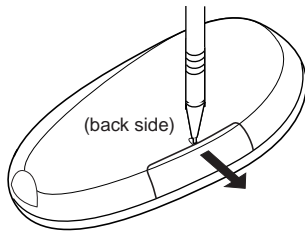
- Do not expose the remote sensor to strong light (direct sunlight or artificial lighting).

Installing the battery

When the controllable range or effectiveness of the remote controller decreases, replace the battery.

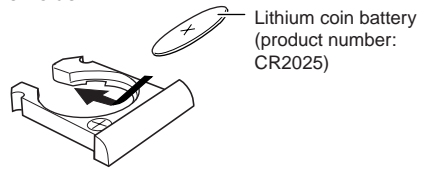
1. Remove the battery holder.

- 1) Push out the battery holder in the direction indicated by the arrow using a ball-point pen or a similar tool.
- 2) Remove the battery holder.



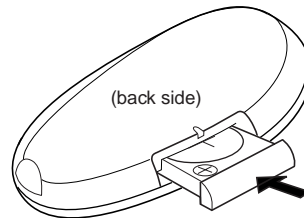
2. Place the battery.

Slide the battery into the holder with the + side facing upwards so that the battery is fixed in the holder.



3. Return the battery holder.

Insert again the battery holder pushing it until you hear a clicking sound.



WARNING:

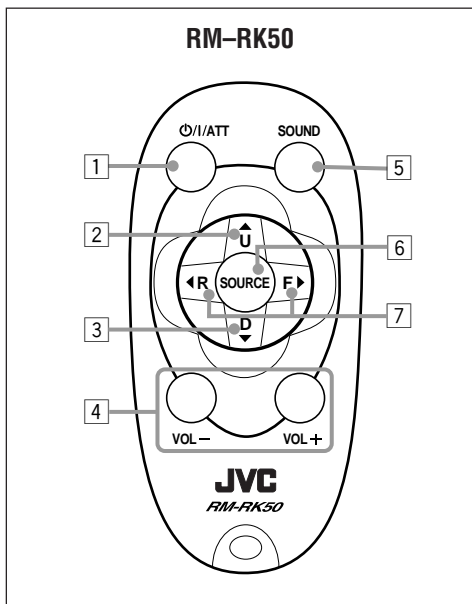
- Store the battery in a place where children cannot reach.
If a child accidentally swallows the battery, consult a doctor immediately.
- Do not recharge, short, disassemble or heat the battery or dispose it in a fire.
Doing any of these things may cause the battery to give off heat, crack or start a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

CAUTION:

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



Remote controller



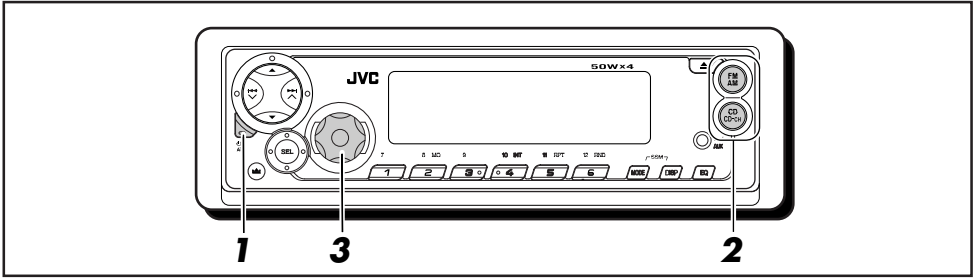
- 1 • Turns on the unit if pressed when the unit is turned off.
 - Turns off the unit if pressed and held until “SEE YOU” appears on the display.
 - Drops the volume level in a moment if pressed briefly.
Press again to resume the volume.
- 2 • Selects the band while listening to the radio. Each time you press the button, the band changes.
 - Skips to the next disc while listening to the CD changer. Each time you press the button, the disc number increases, and the selected disc starts playing.
 - Skips to the first file of the next directory while listening to an MP3 disc. Each time you press the button, you can move to the next directory and start playing the first file—not available for KD-SX885.

- 3 • Selects the preset stations while listening to the radio. Each time you press the button, the preset station number increases, and the selected station is tuned in.
 - Skips to the previous disc while listening to the CD changer. Each time you press the button, the disc number decreases, and the selected disc starts playing.
 - Skips to the first file of the previous directory while listening to an MP3 disc. Each time you press the button, you can move to the previous directory and start playing the first file—not available for KD-SX885.

- 4 Functions the same as the control dial on the main unit.

NOTE: These buttons do not function for the preferred setting mode adjustment.

- 5 Selects the sound mode (C-EQ). Each time you press the button, the sound mode (C-EQ) changes.
- 6 Selects the source. Each time you press the button, the source changes.
- 7 • Searches stations while listening to the radio.
 - Fast-forwards or reverses the track/file if pressed and held while listening to a disc.
 - Skips to the beginning of the next track/file or goes back to the beginning of the current (or previous) tracks/files if pressed briefly while listening to a disc.



Turning on the power

1 Turn on the power.



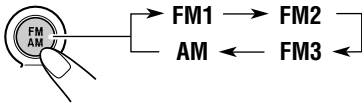
“HELLO” appears on the display.

Note on One-Touch Operation:

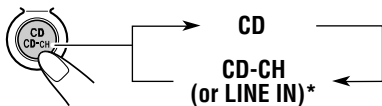
When you select a source in step 2 below, the power automatically comes on. You do not have to press this button to turn on the power.

2 Select the source.

To select the tuner, press FM AM repeatedly.



To select CD, CD changer (or “LINE IN”*), press CD CD-CH (AUX) repeatedly.

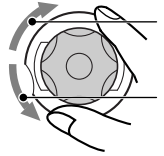


* If “LINE IN” does not appear on the display, see page 29 and select the external input (“LINE IN”).

To select “AUX IN” (component connected to the AUX INPUT jack on the control panel), press and hold CD CD-CH (AUX).

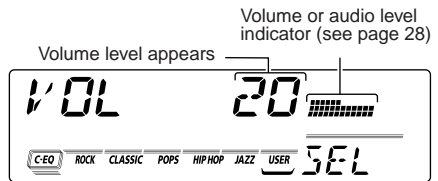


3 Adjust the volume.



To increase the volume.

To decrease the volume.



4 Adjust the sound as you want. (See pages 23 – 25.)

To drop the volume in a moment

Press \odot /I/ATT briefly while listening to any source. “ATT” starts flashing on the display, and the volume level will drop in a moment.

To resume the previous volume level, press the button briefly again.

- If you turn the control dial clockwise, you can also restore the sound.

To turn off the power

Press \odot /I/ATT for more than one second. “SEE YOU” appears, then the unit turns off.

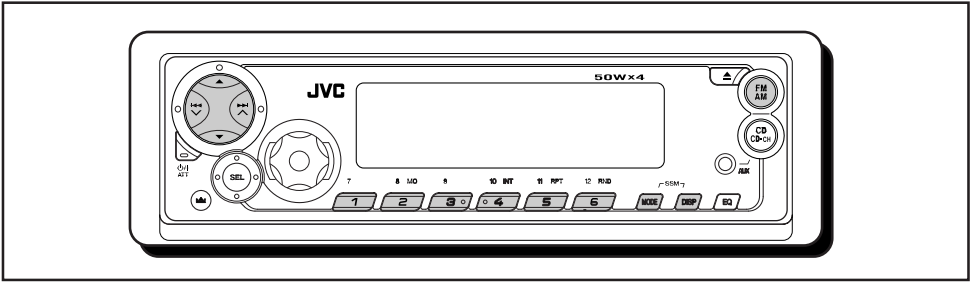
- If you turn off the power while listening to a disc, CD play will start from where playback has been stopped previously, next time you turn on the power.

Note:

When you use this unit for the first time, set the built-in clock correctly, see page 26.



RADIO OPERATIONS

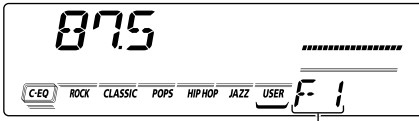
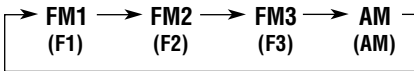


Listening to the radio

You can use either automatic searching or manual searching to tune in to a particular station.

Searching a station automatically: Auto search

1 Select the band (FM1 – 3, AM).



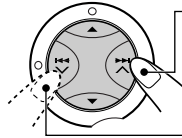
Selected band appears*.

* When "CLOCK" is set to "ON" (see page 28), the band indicator will soon change to the clock time.

Note:

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

2 Start searching a station.



Press **▶▶|▲** to search stations of higher frequencies.

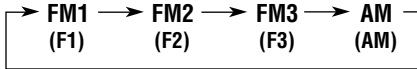
Press **|◀◀▼** to search stations of lower frequencies.

While searching stations, "SEEK" appears on the display.
When a station is received, searching stops.

To stop searching before a station is received, press the same button you have pressed for searching.

Searching a station manually: Manual search

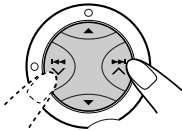
1 Select the band (FM1 – 3, AM).



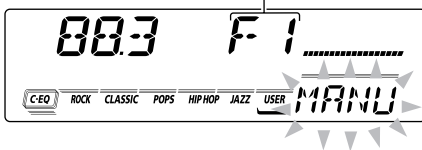
Note:

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

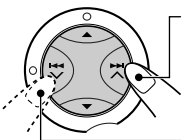
2 Press and hold **▶▶| ^** or **◀◀| v** until “MANU” (manual) starts flashing on the display.



Selected band appears.



3 Tune in to a station you want while “MANU” is flashing.



Press **▶▶| ^** to tune in to stations of higher frequencies.

Press **◀◀| v** to tune in to stations of lower frequencies.

- If you release your finger from the button, the manual mode will automatically turn off after 5 seconds.
- If you hold down the button, the frequency keeps changing (in 50 kHz intervals for FM and 9 kHz intervals for AM) until you release the button.

When an FM stereo broadcast is hard to receive:

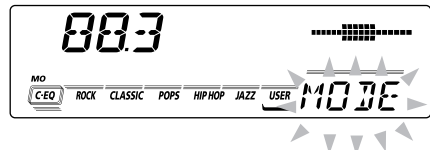
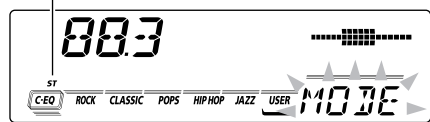


- 1 Press MODE to enter the functions mode while listening to an FM stereo broadcast. “MODE” flashes on the lower part of the display, and the number buttons work as different function buttons.



- 2 Press MO (monaural), while “MODE” flashes on the display, so that the MO indicator lights up on the display. Then, each time you press MO (monaural), the MO indicator lights up and goes off alternately.

Lights up when receiving an FM broadcast in stereo.



When the MO indicator is lit on the display, the sound you hear becomes monaural but the reception will be improved (the ST indicator goes off).



Storing stations in memory

You can use one of the following two methods to store broadcasting stations in memory.

- Automatic preset of FM stations: SSM (Strong-station Sequential Memory)
- Manual preset of both FM and AM stations

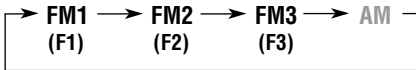
FM station automatic preset: SSM

You can preset 6 local FM stations in each FM band (FM1, FM2 and FM3).

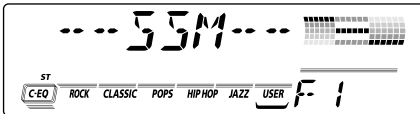
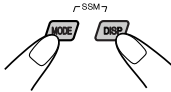
- 1 Select the FM band (FM1 – 3) you want to store FM stations into.**



Each time you press the button, the band changes as follows:



- 2 Press and hold both buttons for more than 2 seconds.**



"SSM" appears, then disappears when automatic preset is over.

Local FM stations with the strongest signals are searched and stored automatically in the band number you have selected (FM1, FM2 or FM3). These stations are preset in the number buttons — No.1 (lowest frequency) to No.6 (highest frequency). When automatic preset is over, the station stored in number button 1 will be automatically tuned in.

Manual preset

You can preset up to 6 stations in each band (FM1, FM2, FM3 and AM) manually.

Ex.: Storing an FM station of 88.3 MHz into the preset number 1 of the FM1 band

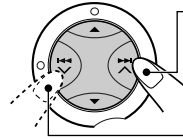
- 1 Select the band (FM1 – 3, AM) you want to store stations into (in this example, FM1).**



Each time you press the button, the band changes as follows:

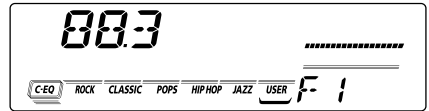


- 2 Tune in to a station (in this example, of 88.3 MHz.)**

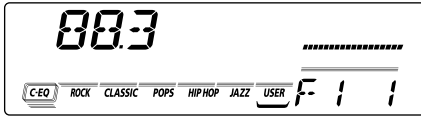


Press **▶▶ ▲** to tune in to stations of higher frequencies.

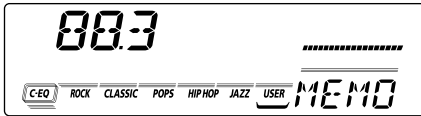
Press **◀◀ ▼** to tune in to stations of lower frequencies.



3 Press and hold the number button (in this example, 1) for more than 2 seconds.



Selected band/preset number and "MEMO" (memory) appear alternately for a while.



4 Repeat the above procedure to store other stations into other preset numbers.

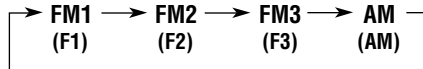
Notes:

- A previously preset station is erased when a new station is stored in the same preset number.
- Preset stations are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the stations again.

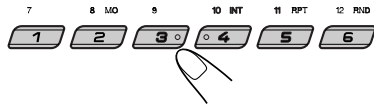
Tuning in to a preset station

You can easily tune in to a preset station. Remember that you must store stations first. If you have not stored them yet, see "Storing stations in memory" on pages 10 and 11.

1 Select the band (FM1 – 3, AM).



2 Select the number (1 – 6) for the preset station you want.

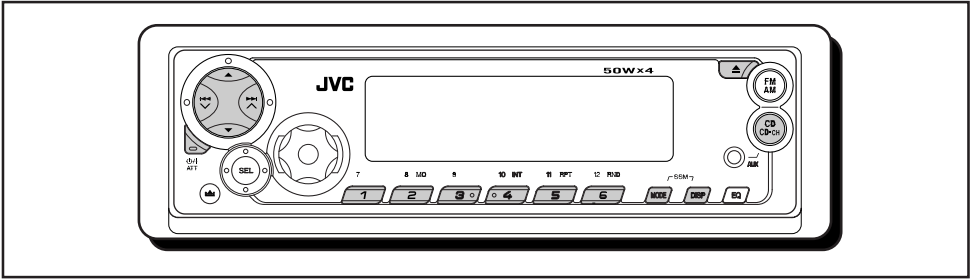


Note:

You can also use the ▲ (up) or ▼ (down) buttons on the unit to select the next or previous preset stations. Each time you press the ▲ (up) or ▼ (down) buttons, the next or previous preset station is tuned in.

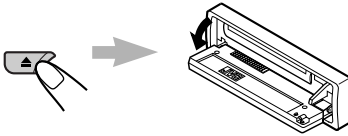


CD OPERATIONS



Playing a CD

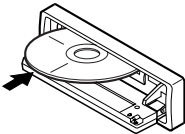
1 Open the control panel.



Note:

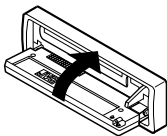
When an external component is connected to the AUX jack on the control panel, be careful of handling a CD.

2 Insert a disc into the loading slot.

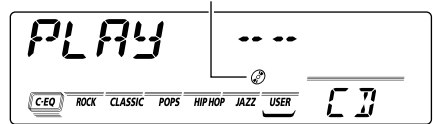


The unit turns on, draws a disc and starts playback automatically.

3 Close the control panel by hand.

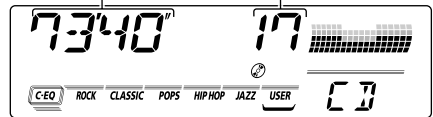


The CD-in indicator lights up.



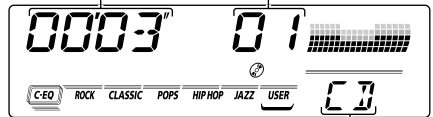
Total playing time of the inserted disc

Total track number of the inserted disc



Elapsed playing time

Current track



Changes to the clock time when "CLOCK" is set to "ON" (see page 28).

Notes:

- When a disc is already in the loading slot, selecting "CD" as the source starts CD play.
- When a disc is inserted upside down, the disc automatically ejects (if the control panel is open). If the control panel is closed, "PLEASE" and "EJECT" appear alternately.
- If you turn off the power or change the source, CD play stops (without ejecting the disc). Next time you select turn on the power or select "CD" as the source, CD play starts from where playback has been stopped previously.



To stop play and eject the CD

Press ▲.

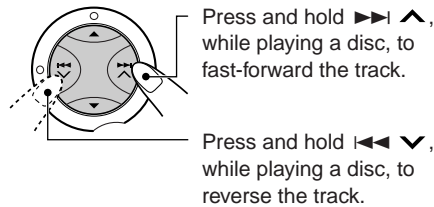
CD play stops, the control panel opens, then the CD automatically ejects from the loading slot. If you change the source, the CD play also stops (without ejecting the CD this time).

Notes:

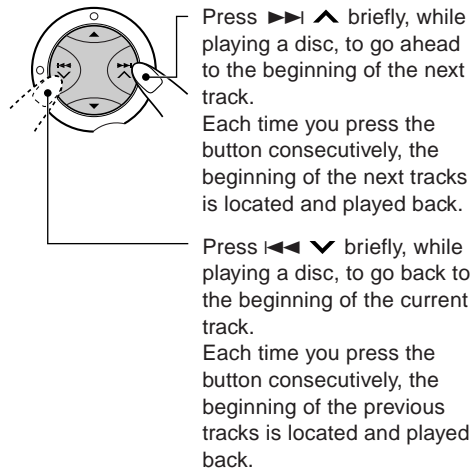
- If the ejected disc is not removed for about 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust. (CD play will not start this time.)
- You can eject the CD even when the unit is turned off.

Locating a track or a particular portion on a CD

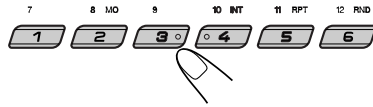
To fast-forward or reverse the track



To go to the next or previous tracks



To go to a particular track directly



Press the number button corresponding to the track number to start its playback.

- To select a track number from 1 – 6:
Press 1 (7) – 6 (12) briefly.
- To select a track number from 7 – 12:
Press and hold 1 (7) – 6 (12) for more than 1 second.

Selecting CD playback modes

To play back tracks at random (Random Play)

You can play back all tracks on the disc at random.

- 1 Press MODE to enter the functions mode while playing a disc. "MODE" flashes on the lower part of the display, and the number buttons work as different function buttons.
- 2 Press RND (random), while "MODE" flashes on the display, so that "RND" appears on the display. Then, each time you press RND (random), the random play mode turns on and off alternately.



When the random mode is turned on, the RND indicator lights up on the display and a track randomly selected starts playing.



To play back tracks repeatedly (Repeat Play)

You can play back the current track repeatedly.

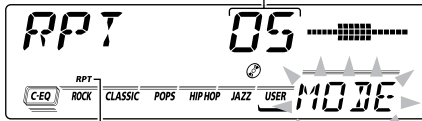


- 1 Press MODE to enter the functions mode while playing a disc. "MODE" flashes on the lower part of the display, and the number buttons work as different function buttons.



- 2 Press RPT (repeat), while "MODE" flashes on the display, so that "RPT" appears on the display. Then, each time you press RPT (repeat), the repeat play mode turns on and off alternately.

Track number of the currently playing track



RPT indicator

When the repeat mode is turned on, the RPT indicator lights up on the display.

To play back only intros (Intro Scan)

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

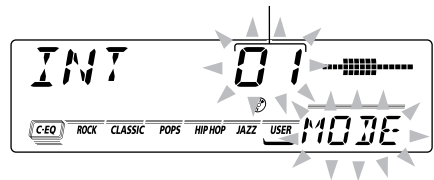


- 1 Press MODE to enter the functions mode while playing a disc. "MODE" flashes on the lower part of the display, and the number buttons work as different function buttons.



- 2 Press INT (intro), while "MODE" flashes on the display, so that "INT" appears on the display. Each time you press INT (intro) while playing a disc, the intro scan mode turns on and off alternately.

Track number of the currently playing track



When the intro scan mode is turned on, "INT" appears on the display for 5 seconds and the track number flashes.



Prohibiting CD ejection

You can prohibit CD ejection and can lock a disc in the loading slot.

While pressing CD CD-CH (AUX), press and hold /I/ATT for more than 2 seconds.



“NO EJECT” flashes on the display for about 5 seconds, and the disc is locked and cannot be ejected.

To cancel the prohibition and unlock the disc, press /I/ATT again for more than 2 seconds, while pressing CD CD-CH (AUX).



“EJECT OK” flashes on the display for about 5 seconds, and the disc is unlocked.

Playing a CD Text

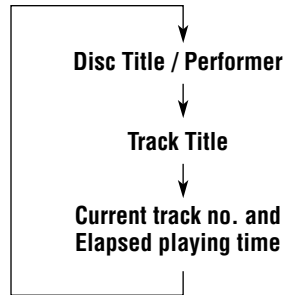
This section is only for KD-SX985.

In a CD Text, some information about the disc (its disc title, performer and track title) is recorded. You can show these disc information on the display.

Select text display mode while playing a CD Text.



Each time you press the button, the display changes as follows:



Notes:

- The display shows up to 8 characters at one time and scrolls if there are more than 8 characters. See also “To select the scroll mode – SCROLL” on page 29. Some characters or symbols will not be shown (and will be blanked) on the display. (Ex. “ABC&!d#” ⇒ “ABCA D ”)
- When the disc title/performer is shown, the DISC indicator lights up. When the track title is shown, the TRACK indicator lights up.
- When you press DISP (display) while playing a conventional CD, “NO NAME” appears for the disc title/performer and the track title.



MP3 INTRODUCTION

This chapter is only for KD-SX985.

What is MP3?

MP3 is an abbreviation of Motion Picture Experts Group (or MPEG) Audio Layer 3*. MP3 is simply a file format with a data compression ratio of 1:10 (128 Kbps**). That means, by using MP3 format, one CD-R or CD-RW can contain 10 times as much data volume as a regular CD can.

* This player is not compatible with the data encoded with Layer 1 and 2 format.

** Bit rate is the average number of bits that one second of audio data will consume. The unit used is Kbps (1000 bits/second). To get a better audio quality, choose a higher bit rate. The most popular bit rate for encoding is 128 Kbps.

This unit is incorporated with an MP3 decoder. You can play back MP3 files (tracks) recorded on CD-Rs, CD-RWs, and CD-ROMs.

Compatible with ID3v1

Extra information data such as album title, performer name, song title, recording year, music genre and a brief comment can be stored within an MP3 file.

This unit can show ID3v1 tags (album name, performer name and song title) on the display. (See page 30.)

- Some characters cannot be shown correctly.
- This unit is not compatible with ID3v2.

Other Main Features in this unit:

- Maximum number of directories/files: 289 (Total)
- Available characters for directory/file names: A-Z, 0-9, _ (underscore)
- Maximum number of characters for file name (ISO 9660 Level 1): 12 (inclusive of separation mark—“.” and extension code—“mp3”)
- (ISO 9660 Level 2): 31 (inclusive of separation mark—“.” and extension code—“mp3”)
- (Joliet): 64 (inclusive of separation mark—“.” and extension code—“mp3”)
- Maximum number of characters for directory name: 64

Precautions when recording MP3 files on a CD-R or CD-RW

This unit can only read MP3 files that are recorded in the format that is compliant with ISO 9660 Level 1, Level 2 or Joliet.

How are MP3 files recorded and played back?

MP3 “files (tracks)” can be recorded in “directories (folders)”—in PC terminology. During recording, the files and directories can be arranged in a way similar to arranging files and directories/folders of computer data. “Root” is similar to the root of a tree. Every file and directory can be linked to and be accessed from the root.

Playback order, file search order, and directory search order of the MP3 files recorded on a disc are determined by the writing (or encoding) application; therefore, playback order may be different from the one you have intended while recording the directories and the files.

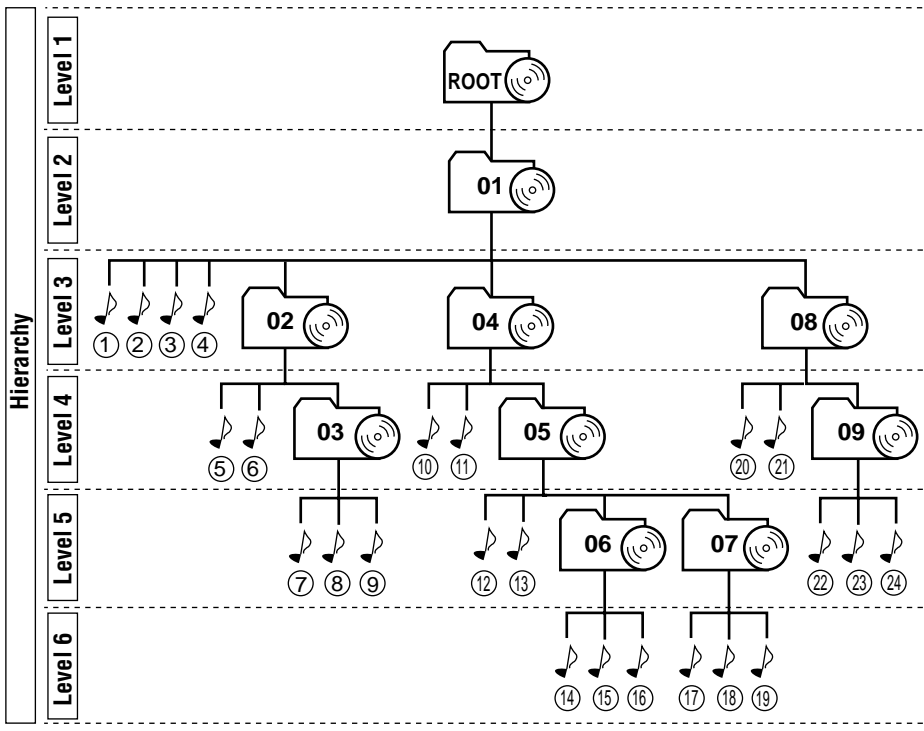
The illustration on the next page shows an example of how MP3 files are recorded on a CD-R or CD-RW, how they are played back, and how they are searched on this unit.




Notes:

- The unit can read a CD-ROM containing MP3 files. However, if non-MP3 files are recorded together with MP3 files, this unit will take a longer time to scan the disc. It may also cause the unit to malfunction.
- The unit cannot read or play an MP3 file without the extension code—mp3.
- The unit is not compatible with Playlist*.

* A playlist is a simple text file, used on a PC, which enables users to make their own playback order without physically rearranging the files.


MP3 directory/file configuration

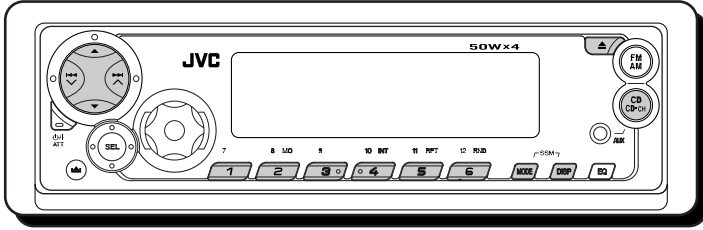


	: Root
	: Directories
	: MP3 files

Note:
 There is no limit to the number of hierarchy levels (nested directories).
 However, up to 8 hierarchy levels is recommended for stable operations.

MP3 playback/search order (page 19)

- The numbers in circles below the MP3 files () indicate the playback order and search order of the MP3 files. Normally this unit plays back MP3 files in the recorded order.
- The numbers inside the directories indicate the playback order and search order of the directories on an MP3 disc. Normally this unit plays back MP3 files in the directories in the recorded order.

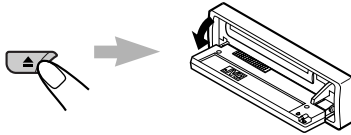


This chapter is only for KD-SX985.

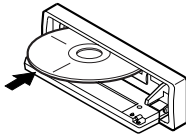
Refer also to “CD OPERATIONS” on pages 12 to 15.

Playing an MP3 disc

1 Open the control panel.

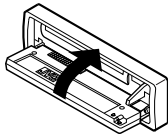


2 Insert an MP3 disc into the loading slot.



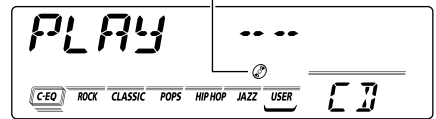
The unit draws the disc. Playback starts automatically from the first file of the first directory once disc check is completed.

3 Close the panel by hand.



The display changes to show the following:

CD-in indicator lights up.



Ex.: When the disc contains 13 directories and 125 MP3 files.

Notes:

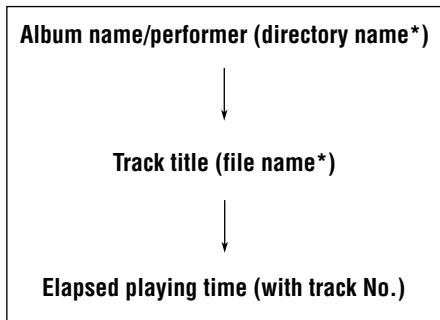
- All the files on the disc will be played repeatedly until you stop playback—All File Repeat Play.
- MP3 discs require a longer readout time. (It differs due to the complexity of the directory/file configuration.)
- If you change the source or turn the power off, MP3 playback stops (without ejecting the disc). Next time you select disc play as the source or turn the power on, MP3 playback starts from where playback has been stopped previously.

To change the display information



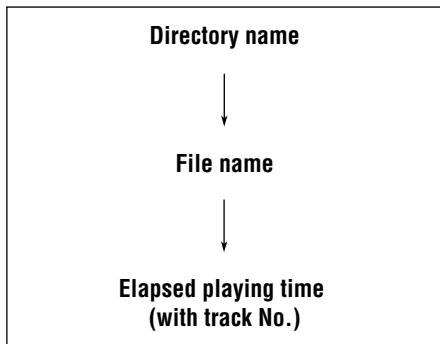
While playing back an MP3 file, you can change the file information shown on the display. Each time you press DISP (display), the display changes to show the following:

- When "TAG DISP" is set to "TAG ON" (initial setting: see page 29)



* If an MP3 file does not have ID3 tags, directory name and file name appear.


- When "TAG DISP" is set to "TAG OFF"



Note:

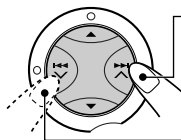
The display shows up to 8 characters at one time and scrolls if there are more than 8 characters. See also "To select the scroll mode – SCROLL" on page 29.



To stop play and eject the disc



Press . MP3 play stops, the control panel opens, then the disc automatically ejects from the loading slot. If you change the source, the playback also stops (without ejecting the disc this time).

Locating a file or particular portion on an MP3 disc

To fast-forward or reverse the file



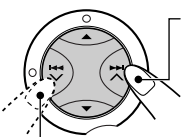
Press and hold   while playing an MP3 disc, to fast-forward the file.



Press and hold   while playing an MP3 disc, to reverse the file.



Note:

During this operation, you can only hear intermittent sounds. (The elapsed playing time also changes intermittently on the display.)

To skip to the next or previous files



Press   briefly while playing, to skip ahead to the beginning of the next file. Each time you press the button consecutively, the beginning of the next file is located and played back. (See "MP3 playback/search order" on page 17.)

Press   briefly, while playing, to skip back to the beginning of the current file. Each time you press the button consecutively, the beginning of the previous files is located and played back. (See "MP3 playback/search order" on page 17.)

To go to a particular directory directly

IMPORTANT:

To directly select the directories using the number button(s), it is required that directories are assigned 2 digit numbers at the beginning of their directory names. (This can only be done during the recording of CD-Rs or CD-RWs.)

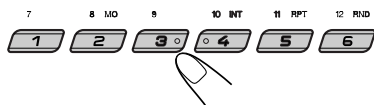
Ex.: If directory name is "01 ABC"

- press 1 to go to Directory 01 ABC.
If directory name is "1 ABC,"
pressing 1 does not work.

If directory name is "12 ABC"

- press and hold 6 (12) to go to
Directory 12 ABC.

Press the number button corresponding to the directory number to start playing the first file in the selected directory.



- To select a directory number from 01 – 06:
Press 1 (7) – 6 (12) briefly.
- To select a directory number from 07 – 12:
Press and hold 1 (7) – 6 (12) for more than 1 second.

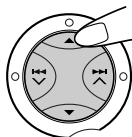
Notes:

- If "MP3" flashes on the display after you have selected a directory, it means that the directory does not contain any MP3 files.
- You cannot directly select a directory with a number greater than 12.

To select a particular file in a directory, press

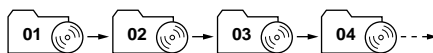
▶▶ ▲ or ◀◀ ▼ after selecting the directory.

To skip to the next directory

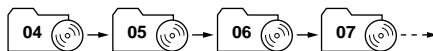


Press ▲ (up) briefly while playing an MP3 disc. Each time you press the button consecutively, the next directory is located (and the first file in the directory starts playing, if recorded).

Ex.1: While playing an MP3 file in Directory 01 (see the illustration on page 17)



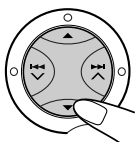
Ex.2: While playing an MP3 file in Directory 04 (see the illustration on page 17)



Note:

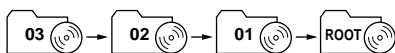
If the directory does not contain any MP3 files, it is skipped.

To skip to the previous directory

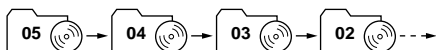


Press ▼ (down) briefly while playing an MP3 disc. Each time you press the button consecutively, the previous directory is located (and the first file in the directory starts playing, if recorded).

Ex.1: While playing an MP3 file in Directory 03 (see the illustration on page 17)



Ex.2: While playing an MP3 file in Directory 05 (see the illustration on page 17)



• If you reach the root, playback will not begin.

Note:

If the directory does not contain any MP3 files, it is skipped.

Selecting MP3 playback modes

To play back files at random (Random Play)

You can play back all files on the MP3 disc at random.



- 1 Press MODE to enter the functions mode while playing an MP3 disc. "MODE" flashes on the lower part of the display, and the number buttons work as different function buttons.
- 2 Press RND (random), while "MODE" flashes on the display, so that "RND1" or "RND2" appears on the display. Each time you press RND (random), the random play mode changes as follows:



Mode	RND Indicator	Plays at random
RND1	Lights	All files of the current directory.
RND2	Flashes	All files on the disc.



RND indicator

Ex.: When "RND1" is selected.

To play back files repeatedly (Repeat Play)

You can play back the current file or all the files in the current directory repeatedly.



- 1 Press MODE to enter the functions mode while playing an MP3 disc. "MODE" flashes on the lower part of the display, and the number buttons work as different function buttons.



- 2 Press RPT (repeat) while "MODE" flashes on the display, so that "RPT1" or "RPT2" appears on the display. Each time you press RPT (repeat), the repeat play mode changes as follows:



Mode	RPT Indicator	Plays repeatedly
RPT1	Lights	The current file (or specified file).
RPT2	Flashes	All files of the current directory (or specified directory).

Track number of the currently playing track



RPT indicator

Ex.: When "RPT1" is selected.

To play back only intros (Intro scan)

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



- 1 Press MODE to enter the functions mode while playing an MP3 disc. "MODE" flashes on the lower part of the display, and the number buttons work as different function buttons.

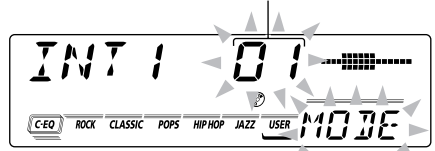


- 2 Press INT (intro scan) while "MODE" flashes on the display, so that "INT1" or "INT2" appears on the display. Each time you press INT (intro), the intro scan play mode changes as follows:



Mode	Indicator	Plays the beginnings (15 seconds)
INT1	The FILE indicator flashes.	Of all files on the disc.
INT2	The DIRECTORY indicator flashes.	Of the first file of all directories.

Track number of the currently playing track



Ex.: When "INT1" is selected.



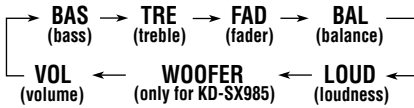
Adjusting the sound

You can adjust the sound characteristics to your preference.

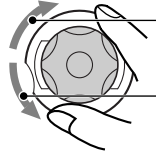
1 Select the item you want to adjust.



Each time you press the button, the adjustable items change as follows:



2 Adjust the level.



To increase the level.

To decrease the level.

Equalization pattern changes as you adjust the bass or treble.



Indication	To do:	Range
BAS	Adjust the bass.	-06 (min.) +06 (max.)
TRE	Adjust the treble.	-06 (min.) +06 (max.)
FAD*	Adjust the front and rear speaker balance.	R06 (Rear only) F06 (Front only)
BAL	Adjust the left and right speaker balance.	L06 (Left only) R06 (Right only)
LOUD	Boost low and high frequencies to produce a well-balanced sound at low volume level.	LOUD ON LOUD OFF
WOOFER (Only for KD-SX985)	Adjust the subwoofer output level.	0 (min.) 8 (max.)
VOL	Adjust the volume.	00 (min.) 50 (max.)

Note:

Normally, the control dial works as the volume control. So you do not have to select "VOL" to adjust the volume level.

* If you are using a two-speaker system, set the fader level to "00."



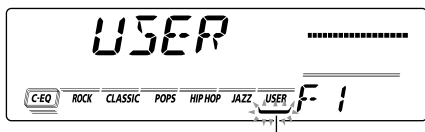
Selecting preset sound modes (C-EQ: custom equalizer)

You can select a preset sound mode (C-EQ: custom equalizer) suitable to the music genre.

1 Press EQ.



The last selected sound mode is recalled and applied to the current sound.



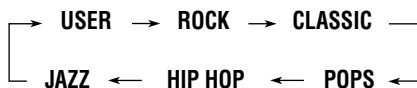
Sound mode indicator flashes.

Ex.: If you have selected "USER" previously.

2 Select the sound mode you want.



Each time you press the button, the sound modes change as follows:



Sound mode indicator flashes.

Ex.: When you select "ROCK."

Indication	For:	Preset values		
		BAS	TRE	LOUD
USER	(Flat sound)	00	00	OFF
ROCK	Rock or disco music	+03	+01	ON
CLASSIC	Classical music	+01	-02	OFF
POPS	Light music	+04	+01	OFF
HIP HOP	Funk or Rap music	+02	00	ON
JAZZ	Jazz music	+02	+03	OFF

Note:

- You can adjust each sound mode to your preference, and store it in memory.

If you want to adjust and store your original sound mode, see "Storing your own sound adjustments" on page 25.

To store a sound mode separately for each playback source (C-EQ Link)

You can select a sound mode and store it in memory. It will be recalled every time you select the same source and will be shown on the display. A sound mode can be stored for each of the following sources — FM1, FM2, FM3, AM, CD and external components.

- Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
- Press ►►| ▲ or ◀◀| ▼ to select "CEQ LINK (custom equalizer link)."
- Turn the control dial clockwise to select "LINK ON."
- Press SEL (select) to finish the setting.

To cancel C-EQ Link, repeat the same procedure and select "LINK OFF" in step 3.

Note:

When you change the "CEQ LINK" setting, the sound mode (C-EQ) is automatically reset to "USER."



- When “CEQ LINK” is set to “LINK ON”
The selected sound mode can be stored in memory for the current source.
Each time you change to the same source, the same sound mode is also recalled and shown on the display. The C-EQ indicator also flashes.
- When “CEQ LINK” is set to “LINK OFF”
The selected sound mode effect applies to any source.

Storing your own sound adjustments

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

- There is a time limit in doing the following procedure. If the setting is canceled before you finish, start from step 1 again.

1 Call up the sound mode you want to adjust.



The last selected sound mode is recalled and applied to the current sound.



Sound mode indicator flashes.

Ex.: If you have selected “ROCK” previously.

2 Select the sound mode you want to adjust.

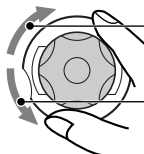


3 Select the item you want to adjust.

- See page 23 for details.



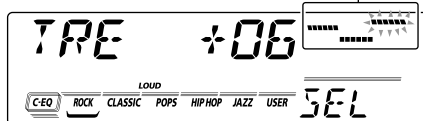
4 Adjust the level.



To increase the level.

To decrease the level.

Equalization pattern changes as you adjust the bass or treble.



Ex.: When you adjust “TRE.”

5 Repeat steps 3 and 4 to adjust the other items.

6 Repeat the same procedure to store other sound modes.

To reset to the factory settings, repeat the same procedure and reassign the preset values listed in the table on page 24.

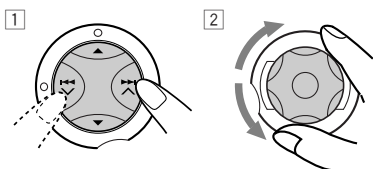
Setting the clock

- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (See page 27.)



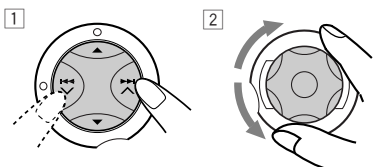
2 Set the hour.

- 1 Select "CLOCK H (hour)" if not shown on the display.
- 2 Adjust the hour.



3 Set the minute.

- 1 Select "CLOCK M (minute)."
- 2 Adjust the minute.



4 Finish the setting.



To check the current clock time while the unit is turned off, press DISP (display).

The power turns on, the clock time is shown for 5 seconds, then the power turns off.

Changing the general settings (PSM)

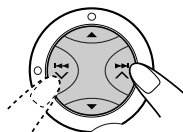
You can change the items listed on the next page by using the PSM (Preferred Setting Mode) control.

Basic Procedure

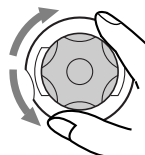
- 1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (See page 27.)



- 2 Select the PSM item you want to adjust. (See page 27.)




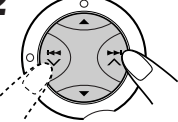

- 3 Adjust the PSM item selected.



- 4** Repeat steps 2 and 3 to adjust the other PSM items if necessary. **5** Finish the setting.



Preferred Setting Mode (PSM) items

 				Factory-preset settings	See page
Hold.	Select.	Set. Counter-clockwise	Clockwise		
CLOCK H	Hour adjustment	Back	Advance	1:00	26
CLOCK M	Minute adjustment	Back	Advance		
CEQ LINK	Custom equalizer link	LINK OFF	LINK ON	LINK OFF	25, 28
CLOCK	Clock display	OFF	ON	ON	28
LEVEL	Level display	AUDIO 1 ↕	↔ AUDIO 2 ↕	AUDIO 2	28
DIMMER*	Dimmer mode	AUTO ↕	↔ OFF ↕	AUTO	28
TEL*	Telephone muting	MUTING 1 ↕	↔ MUTING 2 ↕	OFF	28
BEEP	Key-touch tone	OFF	ON	ON	28
SCROLL*	Scroll mode	ONCE ↕	↔ AUTO ↕	ONCE	29
EXT IN**	External component	CHANGER	LINE IN	CHANGER	29
AUX ADJ***	Auxiliary input level	A.ADJ 00 – A.ADJ 05		A.ADJ 00	29
TAG DISP*	Tag display	TAG OFF	TAG ON	TAG ON	29

- Press SEL (select) to finish the setting.

* Only for KD-SX985.

** Displayed only when one of the following sources is selected – FM, AM and CD.

*** For KD-SX985, AUX ADJ will always be displayed as one of the items in the PSM list.

For KD-SX885, AUX ADJ will only be displayed when “AUX IN” is selected as the source.



To set the Custom Equalizer Link – CEQ LINK

A different sound mode (C-EQ) can be stored in memory for each source so that you can change the sound modes simply by changing the sources. When shipped from the factory, this mode is deactivated.

- LINK ON: Different sound modes for different sources.
- LINK OFF: One sound mode for all sources.

To set the clock display – CLOCK

You can set the clock to be shown on the display when the unit is turned on.

When shipped from the factory, the clock is set to be shown on the display.

- ON: Clock display is turned on.
- OFF: Clock display is turned off. When "OFF" is selected, the current source name or station band appears instead of the clock display (except when "LINE IN" is selected as the source).

To select the level meter – LEVEL

You can select the level display according to your preference.

When shipped from the factory, "AUDIO 2" is selected.

- AUDIO 1: Level meter illuminates from bottom to top.
- AUDIO 2: Alternates level meter (moves from bottom to top) and illumination display.
- OFF: Erases the audio level indicator.

To select the dimmer mode – DIMMER (only for KD-SX985)

When you turn on the car headlights, the display automatically dims (Auto Dimmer.)

When shipped from the factory, Auto Dimmer mode is activated.

- AUTO: Activates Auto Dimmer.
- OFF: Cancels Auto Dimmer.
- ON: Always dims the display.

Note:

Auto Dimmer equipped with this unit may not work correctly on some vehicles, particularly on those having a control dial for dimming.

In this case, set the dimmer mode to "ON" or "OFF."

To select the telephone muting – TEL (only for KD-SX985)

This mode is used when a cellular phone system is connected. Depending on the phone system used, select either "MUTING 1" or "MUTING 2," whichever mutes the sounds from this unit.

When shipped from the factory, this mode is deactivated.

- MUTING 1: Select this if this setting can mute the sounds.
- MUTING 2: Select this if this setting can mute the sounds.
- OFF: Cancels the telephone muting.

To turn on/off the key-touch tone – BEEP

You can deactivate the key-touch tone if you do not want it to beep each time you press a button. When shipped from the factory, the key-touch tone is activated.

- ON: Activates the key-touch tone.
- OFF: Deactivates the key-touch tone.

To select the scroll mode – SCROLL (only for KD-SX985)

You can select the scroll mode for the disc information (when the entire text cannot be shown all at once).

When shipped from the factory, Auto Scroll mode is set to “ONCE.”

- ONCE: Scrolls only once.
- AUTO: Repeats the scroll (in 5-second intervals).
- OFF: Cancels Auto Scroll.

Note:

Even if the scroll mode is set to “OFF,” you can scroll the display by pressing **DISP** (display) for more than 1 second.

To select the external component to use – EXT IN

You can connect the external component to the CD changer jack on the rear using the Line Input Adaptor KS-U57 (not supplied).

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

When shipped from the factory, CD changer is selected as the external component.

- LINE IN: To use the external component other than CD changer.
- CHANGER: To use the CD changer.

Note:

For connecting the Line Input Adaptor KS-U57 and the external component, refer to the *Installation/Connection Manual* (separate volume).

To adjust the auxiliary input level – AUX ADJ

Adjust the auxiliary input level properly when an external component is connected to the AUX input jack.

When shipped from the factory, the AUX input level is set at level “00.”

If the input level of the connected component is not high enough, increase the input level properly. Without adjusting the line input level, you may be surprised at a loud sound when you change the source from the external component to another source.

To turn the tag display on or off – TAG DISP (only for KD-SX985)

An MP3 file can contain file information called “ID3 Tag” where its album name, performer, track title, etc. are recorded.

There are two versions—ID3v1 (ID3 Tag version 1) and ID3v2 (ID3 Tag version 2). This unit is compatible only with ID3v1.

When shipped from the factory, “TAG ON” is selected.

- TAG ON: Turns on the ID3 tag display while playing MP3 files.
* If an MP3 file does not have ID3 tags, directory name and file name appear.

Note:

If you change the setting from “TAG OFF” to “TAG ON” while playing an MP3 file, the tag display will be activated when the next file starts playing.

- TAG OFF: Turns off the ID3 tag display while playing MP3 files. (Only the directory name and file name can be shown.)

Assigning names to the sources

This section is only for KD-SX985.

You can assign names to station frequencies and discs (both in this unit and in the CD changer). After assigning a name, it will appear on the display when you select the source.

Sources	Maximum number of characters
Station frequencies	up to 8 characters (up to 30 station frequencies including both FM and AM)
CDs*	up to 32 characters (up to 40 discs)

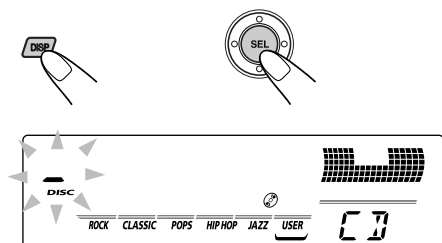
* You cannot assign a name to CD Text or an MP3 disc.

1 Select a source you want to assign a name to.



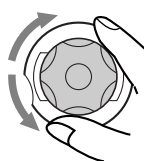
When you select a source, the power automatically comes on.

2 Press and hold SEL (select) for more than 2 seconds while pressing DISP (display).



Ex.: When you select CD as the source

3 Select a character.



• See below for available characters.

4 Move the cursor to the next (or previous) character position.



5 Repeat steps 3 and 4 until you finish inputting the name.

6 Finish the procedure while the last selected character is flashing.



To erase the input characters

Insert spaces using the same procedure described above.

Available characters

A	B	C	D	E	F	G	H	I	J
K	L	M	N	O	P	Q	R	S	T
U	V	W	X	Y	Z	0	1	2	3
4	5	6	7	8	9	-	/	<	>
space									

Notes:

- When you try to assign a name to the 41st disc, "NAME FULL" appears on the display. (In this case, delete unwanted names before assignment.)
- When the CD changer is connected, you can assign names to CDs in the CD changer. These names can also be shown on the display if you insert the CDs in this unit.

Detaching the control panel

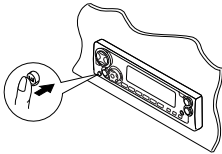
You can detach the control panel when leaving the car.

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

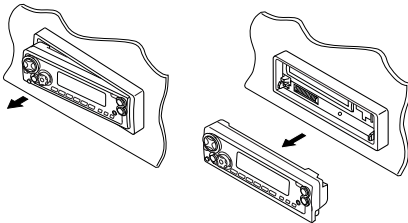
Detaching the control panel

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

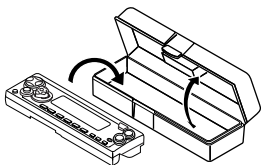
1 Unlock the control panel.



2 Pull the control panel out of the unit.

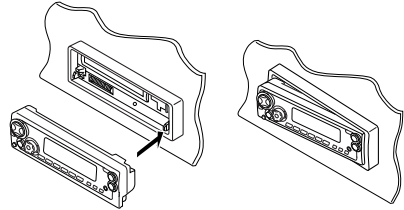


3 Put the detached control panel into the provided case.

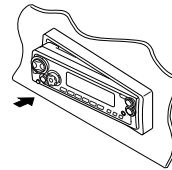


Attaching the control panel

1 Insert the right side of the control panel into the groove on the panel holder.



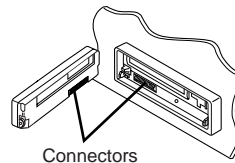
2 Press the left side of the control panel to fix it to the panel holder.



Note on cleaning the connectors:

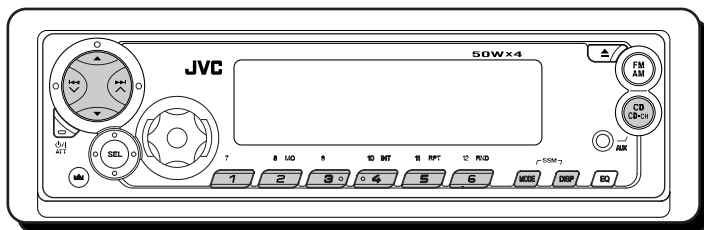
If you frequently detach the control panel, the connectors will deteriorate.

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





CD CHANGER OPERATIONS



We recommend that you use one of the CH-X series with your unit.

If you have another CD automatic changer, consult your JVC car audio dealer for connections.

- For example, if your CD automatic changer is one of the KD-MK series, you need a cord (KS-U15K) for connecting it to this unit.

Before operating your CD automatic changer:

- Refer also to the Instructions supplied with your CD changer.
- If no discs are in the magazine of the CD changer or the discs are inserted upside down, "NO DISC" will appear on the display. If this happens, remove the magazine and set the discs correctly.
- If "RESET 1" – "RESET 8" appears on the display, something is wrong with the connection between this unit and the CD changer. If this happens, check the connection and make sure the cords are connected firmly. Then, press the reset button of the CD changer.

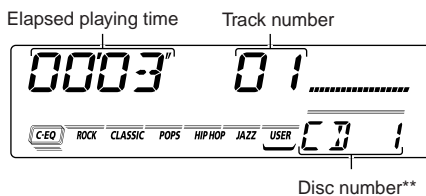
Playing CDs

Select the CD automatic changer (CD-CH).



- * If you have changed the "EXT IN" setting to "LINE IN" (see page 29), you cannot select the CD changer.

Playback starts from the first track of the first disc. All tracks of all discs are played back.



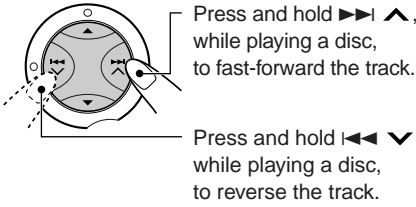
- ** When "CLOCK" is set to "ON" (see page 28), disc number will soon change to clock time.

Note on One-Touch Operation:

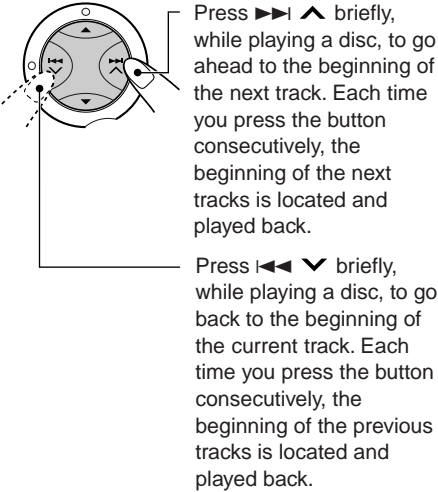
When you press CD CD-CH, the power automatically comes on. You do not have to press /ATT to turn on the power.



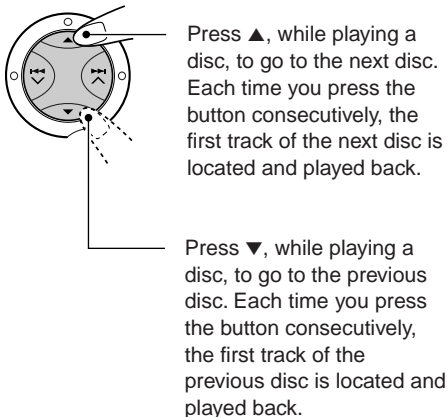
To fast-forward or reverse the track



To go to the next track or the previous tracks

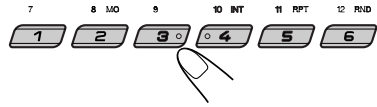


To go to the next disc or the previous disc

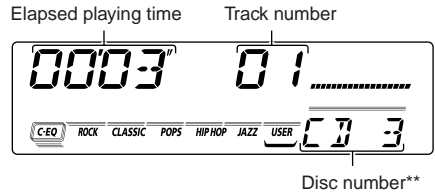


To go to a particular disc directly

Press the number button corresponding to the disc number to start its playback (while the CD changer is playing).



- To select a disc number from 1 – 6: Press 1 (7) – 6 (12) briefly.
- To select a disc number from 7 – 12: Press and hold 1 (7) – 6 (12) for more than 1 second.



** When "CLOCK" is set to "ON" (see page 28), disc number will soon change to clock time.

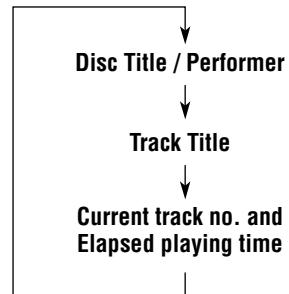
To show the CD Text information (only for KD-SX985)

This is possible only when connecting a JVC CD automatic changer equipped with CD Text reading capability.

Select text display mode while playing a CD Text.



Each time you press the button, the display changes as follows:



Notes:

- The display shows up to 8 characters at one time and scrolls if there are more than 8 characters.
- If a CD Text includes too much text information, some may not appear on the display.
- When you press DISP (display) while playing a conventional CD, "NO NAME" appears for the disc title/performer and the track title.



Selecting CD playback modes

To play back tracks at random (Random Play)



1 Press MODE to enter the functions mode while playing a disc. "MODE" flashes on the lower part of the display, and the number buttons work as different function buttons.



2 Press RND (random), while "MODE" flashes on the display, so that "RND1" or "RND2" appears on the display. Then, each time you press RND (random), the random play mode changes as follows:



Mode	RND Indicator	Plays at random
RND1	Lights	All tracks of the current disc, then the tracks of the next disc and so on.
RND2	Flashes	All tracks of all discs inserted in the magazine.

To play back tracks repeatedly (Repeat Play)



1 Press MODE to enter the functions mode while playing a disc. "MODE" flashes on the lower part of the display, and the number buttons work as different function buttons.



2 Press RPT (repeat), while "MODE" flashes on the display, so that "RPT1" or "RPT2" appears on the display. Then, each time you press RPT (repeat), the repeat play mode changes as follows:



Mode	RPT Indicator	Plays repeatedly
RPT1	Lights	The current track (or specified track).
RPT2	Flashes	All tracks of the current disc (or specified disc).

To play back only intros (Intro Scan)

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



1 Press MODE to enter the functions mode while playing a disc. "MODE" flashes on the lower part of the display, and the number buttons work as different function buttons.

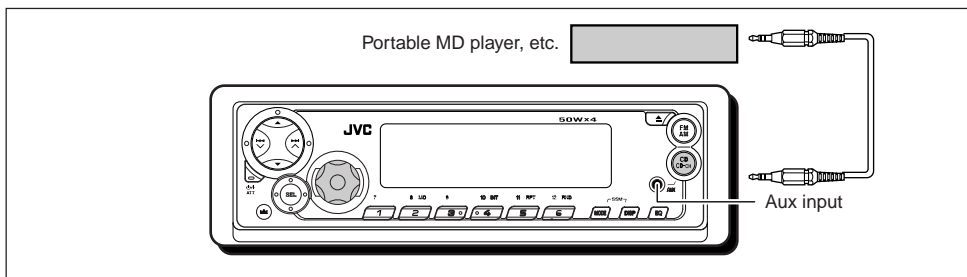


2 Press INT (intro), while "MODE" flashes on the display, so that "INT1" or "INT2" appears on the display. Then, each time you press INT (intro) while playing a disc, the intro scan mode changes as follows:



Mode	Indication	Plays the beginnings (15 seconds)
INT1	Track number flashes	Of all tracks on all inserted discs.
INT2	Disc number flashes	Of the first track on each inserted disc.

EXTERNAL COMPONENT OPERATIONS



Playing an external component

You can connect two external components to this unit.

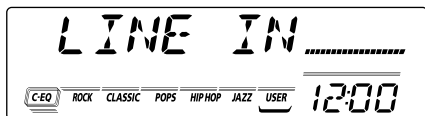
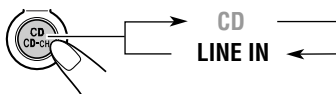
Connect one to the CD changer jack on the rear using the Line Input Adaptor KS-U57 (not supplied), and the other to the AUX (auxiliary) input jack on the control panel.

Preparations:

- For connecting the Line Input Adaptor KS-U57 and the external component, refer to the Installation/Connection Manual (separate volume).
- Before operating the external component using the following procedure, select the external input correctly. (See "To select the external component to use – EXT IN" on page 29.)

1 Select the external component (LINE IN or AUX IN).

To select "LINE IN" (component connected to the CD changer jack on the rear), press CD CD-CH (AUX) repeatedly.

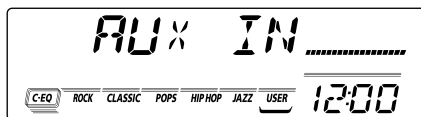


- If "LINE IN" does not appear on the display, see page 29 and select the external input ("LINE IN").
- Displayed only when one of the following sources is selected – FM, AM and CD.

To select "AUX IN" (component connected to the AUX input jack on the control panel), press and hold CD CD-CH (AUX).

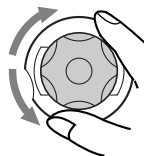


- To exit from AUX IN, press CD CD-CH (AUX) or FM AM briefly.



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

3 Adjust the volume.



4 Adjust the sound characteristics you want. (See pages 23 – 25.)

Note:

If the input level of the external components connected to the AUX jack is not high enough, increase the input level properly.

Without adjusting the input level, you may be surprised at a loud sound when you change the source from the external components to another. (See "To adjust the auxiliary input level – AUX ADJ" on page 29.)

Note on One-Touch Operation:

When you press CD CD-CH (AUX), the power automatically comes on. You do not have to press /ATT to turn on the power.



TROUBLESHOOTING

ENGLISH

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

	Symptoms	Causes	Remedies
General Playback	• Disc cannot be played back.	Disc is inserted upside down.	Insert the disc correctly.
	• Sound is sometimes interrupted.	You are driving on rough roads.	Stop playback while driving on rough roads.
		Disc is scratched.	Change the disc.
		Connections are incorrect.	Check the cords and connections.
	• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped.	CD-R/CD-RW is not finalized.	Insert a finalized CD-R/CD-RW or finalize the CD-R/CD-RW with the component used for recording.
	• Sound cannot be heard from the speakers.	The volume level is set to the minimum level.	Adjust it to the optimum level.
		Connections are incorrect.	Check the cords and connections.
	• "NO DISC" appears on the display .	No disc in the loading slot.	Insert a disc into the loading slot.
		Disc is inserted incorrectly.	Insert the disc correctly.
	• Disc cannot be ejected.	Disc is locked.	Unlock the disc (See page 15.)
• This unit does not work at all.	The built-in microcomputer may function incorrectly due to noise, etc.	Press the reset button on the panel holder. (The clock setting and the preset stations stored in memory are erased.) (See page 2.)	
FM/AM	• SSM (Strong-station Sequential Memory) automatic preset does not work.	Signals are too weak.	Store stations manually.
	• Static noise while listening to the radio.	The antenna is not connected firmly.	Connect the antenna firmly.



Symptoms	Causes	Remedies	
<ul style="list-style-type: none"> • “NO DISC” appears on the display . 	No disc in the magazine.	Insert a disc.	CD Changer
<ul style="list-style-type: none"> • “RESET 8” appears on the display . 	This unit is not connected to a CD changer correctly.	Connect this unit and the CD changer correctly and press the reset button of the CD changer.	
<ul style="list-style-type: none"> • “RESET 1” – “RESET 7” appears on the display. 	_____	Press the reset button of the CD changer.	
<ul style="list-style-type: none"> • Disc cannot be played back. 	MP3 files do not have the extension code—mp3 in their file names.	Add the extension code—mp3 to their file names.	MP3 Playback (Only for KD-SX985)
	MP3 files are not recorded in the format compliant with ISO 9660 Level 1, 2 or Joliet.	Change the disc. (Record MP3 files using a compliant application.)	
<ul style="list-style-type: none"> • Files skip, or 00'00” appears and playback stops. 	Files are encoded in Layer 1 or Layer 2 format.	Insert a disc that contains files encoded in Layer 3 format.	
<ul style="list-style-type: none"> • Noise is generated. 	The file played back is not an MP3 file (although it has the extension code—mp3).	Skip to another file or change the disc. (Do not add the extension code—mp3 to non-MP3 files.)	
<ul style="list-style-type: none"> • A longer readout time is required (“CHECK” keeps flashing on the display). 	Readout time varies due to the complexity of the directory/file configuration.	Do not use too many hierarchies and directories. Also, do not record any other types of audio tracks together with MP3 files.	
<ul style="list-style-type: none"> • Files cannot be played back as you have intended them to play. 	Playback order is determined when the files are recorded.	_____	
<ul style="list-style-type: none"> • Elapsed playing time is not correct. 	This sometimes occurs during play. This is caused by how the files are recorded on the disc.	_____	
<ul style="list-style-type: none"> • “MP3” flashes on the display. 	There are no MP3 files in the current directory.	Select another directory.	
<ul style="list-style-type: none"> • “NO FILES” appears on the display for a while, then PLEASE and EJECT appear alternately. 	There are no MP3 files in this disc.	Insert a disc that contains MP3 files.	
<ul style="list-style-type: none"> • Correct characters are not displayed. (e.g. album name) 	This unit can only display alphabets (capital: A–Z), numbers and a limited number of symbols.	_____	



MAINTENANCE

Handling CDs

This unit has been designed to reproduce CDs and CD-Rs.

Only for KD-SX985:

- You can also play back CD Text.
- You can also play back your original CD-Rs (Recordable) and CD-RWs (Rewritable) either in audio CD format or in MP3 format.

Only for KD-SX885:

KD-SX885 is not compatible with MP3.

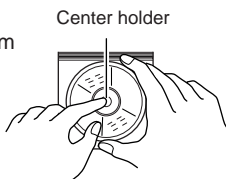
How to handle discs

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.

- Always hold the disc by the edges. Do not touch its recording surface.

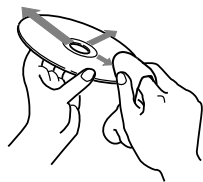
When storing a disc into its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs into the cases after use.



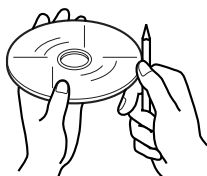
To keep discs clean

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.



To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc. To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.



Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
 - If it becomes very humid inside the car.
- Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

When playing a CD-R or CD-RW

You can play back your original CD-Rs or CD-RWs recorded in audio CD format (or in MP3 format: only for KD-SX985.) However, they may not be played back depending on their characteristics or recording conditions.

- User-edited CD-Rs (Recordable) and CD-RWs (Rewritable) can be played back only if they are already "finalized."
- Before playing back CD-Rs or CD-RWs, read their instructions or cautions carefully.
- Some CD-Rs or CD-RWs may not be played back on this unit because of their disc characteristics, damage or stain on them, or if the player's lens is dirty.
- CD-Rs or CD-RWs are susceptible to high temperatures or high humidity; so do not leave them inside your car.
- CD-RWs may require a longer readout time. (This is caused by the fact that the reflectance of CD-RWs is lower than for regular CDs.)

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

About mistracking:

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

We recommend that you stop disc playback while driving on such rough roads.

AUDIO AMPLIFIER SECTION

Maximum Power Output:

Front: 50 W per channel

Rear: 50 W per channel

Continuous Power Output (RMS):

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

Rear: 19 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)

Tone Control Range:

Bass: ± 10 dB at 100 Hz

Treble: ± 10 dB at 10 kHz

Frequency Response: 40 Hz to 20 000 Hz

Signal-to-Noise Ratio: 70 dB

Auxiliary Input jack: 3.5 mm dia. stereo mini jack (analog)

Line-Out Level/Impedance:

KD-SX985: 4.0 V/20 k Ω load

KD-SX885: 2.0 V/20 k Ω load

Output Impedance: 1 k Ω

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 Quietening 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: 35 dB

CD PLAYER SECTION

Type: Compact disc player

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

Number of channels: 2 channels (stereo)

Frequency Response: 5 Hz to 20 000 Hz

Dynamic Range: 96 dB

Signal-to-Noise Ratio: 98 dB

Wow and Flutter: Less than measurable limit

Only for KD-SX985:

MP3 recording format: MPEG 1/2 Audio Layer 3

Max. Bit rate: 320 Kbps

GENERAL

Power Requirement:

Operating Voltage: DC 14.4 V

(11 V to 16 V allowance)

Grounding System: Negative ground

Allowable Operating Temperature: 0°C to +40°C

Dimensions (W \times H \times D):

Installation Size: 182 mm \times 52 mm \times 150 mm

Panel Size: 188 mm \times 58 mm \times 14 mm

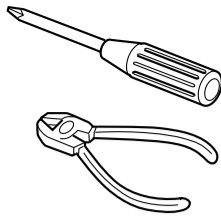
Mass: 1.4 kg (excluding accessories)

Design and specifications subject to change without notice.

Having TROUBLE with operation?

Please reset your unit

Refer to page 2



ENGLISH

- This unit is designed to operate on 12 V DC, NEGATIVE ground electrical systems.

INSTALLATION (IN-DASH MOUNTING)

- The following illustration shows a typical installation. However, you should make adjustments corresponding to your specific car. If you have any questions or require information regarding installation kits, consult your JVC car audio dealer or a company supplying kits.

中文

- 本機僅可使用直流 12V、負極接地的電源系統。

安裝 (裝設、固定在儀表板內)

- 下面的圖解表示了典型的安裝程序。然而，您應當做些適當的調整，以便適應您自己的汽車。如果您有問題，或需要有關配套元件的資料，請向 JVC 汽車音響分銷商或配套元件供應公司詢問。

ไทย

- ชุดประกอบชุดนี้ได้รับการออกแบบมาเพื่อใช้งานกับระบบกระแสไฟฟ้าสายดินขั้วลบกระแสตรง 12 โวลท์

การติดตั้ง (การประกอบแผงหน้าปัทมเขา)

- ภาพตัวอย่างต่อไปนี้แสดงถึงการติดตั้งแบบทั่วไป อย่างไรก็ตาม คุณควรปรับแต่งให้เหมาะสมกับรถของคุณเอง หากคุณมีปัญหาคือหรือต้องการข้อมูลเพิ่มเติมเกี่ยวกับชุดติดตั้ง กรุณาปรึกษากับผู้ขายเครื่องเสียงรถยนต์ JVC ของท่านหรือบริษัทที่จำหน่ายชุดติดตั้งนี้

عربي

- لقد صمم هذا الجهاز ليعمل بواسطة تيار كهربائي مباشر DC، ١٢ فولت، انظمة كهربائية تاريض سالب.

تركيب الجهاز (داخل-تابلو السيارة)

- يبيّن الرسم التوضيحي التالي طريقة التركيب المثالية. مع ذلك، يجب عليك عمل تعديلات تطابق نوع السيارة التي تمتلكها. إذا كان هناك استفسارات أو حاجة لمعلومات بخصوص ادوات التركيب، يرجى استشارة موزع الاجهزة الصوتية للسيارات ماركة JVC أو الشركة الموزعة لهذة الادوات.

1 Before mounting: Press **▲** (Control Panel Release button) to detach the control panel if already attached.

- * When shipped from the factory, the control panel is packed in the hard case.

2 Remove the trim plate.

3 Remove the sleeve after disengaging the sleeve locks.

- Stand the unit.

Note: When you stand the unit, be careful not to damage the fuse on the rear.

- Insert the 2 handles between the unit and the sleeve, as illustrated, to disengage the sleeve locks.

- Remove the sleeve.

Note: Be sure to keep the handles for future use after installing the unit.

4 Install the sleeve into the dashboard.

- * After the sleeve is correctly installed into the dashboard, bend the appropriate tabs to hold the sleeve firmly in place, as illustrated.

5 Fix the mounting bolt to the rear of the unit's body and place the rubber cushion over the end of the bolt.

6 Do the required electrical connections.

7 Slide the unit into the sleeve until it is locked.

8 Attach the trim plate.

- Note:** Ensure the recessed part is at the bottom. If not, the control panel will not open completely.

9 Attach the control panel.

1 裝設之前: 如果控制面板已經裝上，按下 **▲** (控制面板解脫按鈕)，拆脫控制面板。

- * 當控制面板從工廠裝運時，它是包裝在硬盒中的。

2 取下裝飾框。

3 解開扣板，取下本機的外套機殼。

- 將本機豎起。

注意: 您豎起本機時，小心不要損壞底部的保險絲。

- 按圖所示，在本機和外套機殼之間插入兩片板條型的把手，解開外套機殼扣板。

- 取下外套機殼。

注意: 安裝本機後，務必保存好兩片把手，以備將來使用。

4 將外套機殼裝入儀表板內。

- * 在外套機殼準確地裝入儀表板之後，按圖所示，彎曲機殼的突舌，把外套機殼牢固在儀表板內。

5 將緊固螺栓旋緊在本機機體上，並將橡膠防震墊套在緊固螺栓的尾部。

6 進行所需的電路連接。

7 將本機滑入外套機殼，直到扣板鎖住為止。

8 裝上裝飾框。

- 注意:** 請確保凹進去的部分是在底部。如果不在底部，控制面板將不會完全打開。

9 裝上控制面板。

1 ก่อนประกอบ กดปุ่ม **▲** (ปลดแผงควบคุม) เพื่อออกจากแผงควบคุม

- * เมื่อผลิตภัณฑ์ถูกส่งออกมาจากโรงงาน แผงหน้าปัดจะบรรจุไว้ในถังแข็ง

2 ถอดแผ่นโลหะขอบแต่งออก

3 ถอดปลอกหุ้มออกหลังจากปลดที่ล็อกปลอกหุ้มออกแล้ว

- จับชุดประกอบตั้งขึ้น

หมายเหตุ: เมื่อคุณตั้งชุดประกอบขึ้น ระวังอย่าทำให้ฟิวส์บริเวณส่วนท้ายเสียหาย

- ใส่คั่นบังคับ 2 อันระหว่างชุดประกอบกับปลอกหุ้ม (ดังภาพ) เพื่อปลดที่ล็อกปลอกหุ้มออกจากกัน

- ปลดปลอกหุ้มออก

หมายเหตุ: ระบุระวังให้คั่นบังคับสามารถใช้งานได้ต่อไปหลังจากติดตั้งชุดประกอบแล้ว

4 ติดตั้งปลอกหุ้มลงในแผงหน้าปัทม

- * หลังจากติดตั้งปลอกหุ้มลงในแผงหน้าปัทมอย่างถูกต้องแล้ว คัดกรองให้โครงพอดี้ที่ปลอกหุ้มจะถูกยึดไว้อย่างแน่นหนา (ดังภาพ)

5 ติดสติกประกอบบริเวณด้านหลังโครงของชุดประกอบและวางยางกันกระแทกไว้บนส่วนปลายของสติก

6 ต่อสายไฟตามที่กำหนดไว้ทั้งหมด

7 เลื่อนชุดประกอบลงในปลอกหุ้มจนเข้ากันได้พอดี

8 ต่อแผ่นโลหะขอบแต่ง

- หมายเหตุ:** เวลาใส่ต้องแน่ใจว่า ตัวล็อกอยู่ทางด้านล่าง มิฉะนั้นแล้ว จะเปิดแผงควบคุมออกไม่ได้ทั้งหมด

9 ต่อเข้ากับแผงควบคุม

1 قبل التركيب: اضغط الزر **▲** (زر تحرير لوحة التحكم) لفصل لوحة التحكم اذا كانت موصولة سابقا.

* عند الشحن من المصنع، تم وضع لوحة التحكم داخل الصندوق.

2 انزع لوحة الزينة.

3 انزع الهيكل الواقي بعد فصل مثبتات الهيكل الواقي.

- اوقف الجهاز بشكل عمودي.

ملاحظة: عند توقيف الجهاز، تأكد من عدم تضرر او اتلاف الفيوز الموجود في الجهة الخلفية من الجهاز.

4 ادخل المساكين بين الجهاز والهيكل الواقي، كما هو مبين في الشكل، لفصل مثبتات الهيكل الواقي.

5 انزع الهيكل الواقي.

ملاحظة: يرجى المحافظة على المساكات من اجل الاستعمال لاحقا بعد تركيب الجهاز.

6 ركب الهيكل الواقي داخل تابلو السيارة.

* بعد تركيب الهيكل الواقي كليا داخل تابلو السيارة بشكل صحيح، اثني الألسنة بشكل مناسب لتثبيت الهيكل الواقي بشكل محكم في المكان الصحيح، كما هو مبين في الشكل.

7 ثبت مسمار التركيب بالجهة الخلفية من هيكل الجهاز وبعد ذلك ضع الحشوة المطاطية فوق نهاية المسمار.

8 اعمل التوصيلات المطلوبة.

9 ادخل الجهاز داخل الهيكل الواقي حتى يثبت بشكل صحيح.

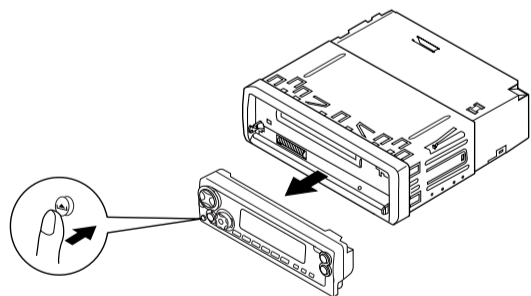
10 ركب لوحة الزينة

ملاحظة: تأكد من وجود القسم الجوّف في الاسفل.

11 ركب لوحة التحكم.

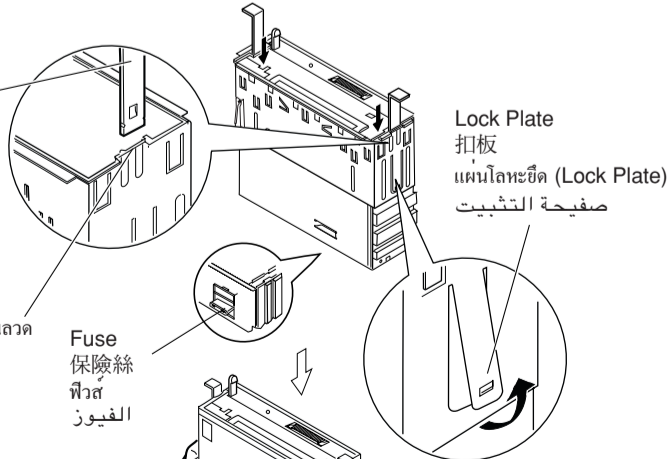
1

Control panel
控制面板
หน้าปัด
اوحه التحكم



3

Handle
板條型把手
คั่นบังคับ
المساکة



Lock Plate
扣板
แผ่นโลหะยึด (Lock Plate)
صفیحة التثبيت

Slot
卡槽
ร่องไว้สำหรับฟิวส์
شق صغير

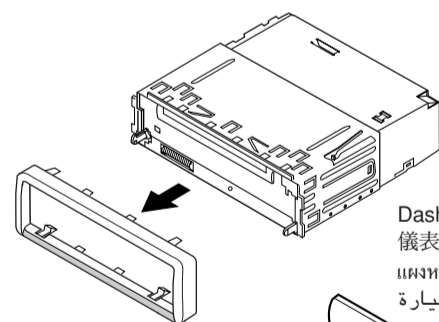
Fuse
保險絲
فیوز

Sleeve
外套機殼
ปลอกหุ้ม
الهيكل الواقي

Control panel
控制面板
หน้าปัด
اوحه التحكم

2

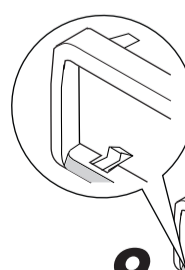
Trim plate
裝飾框
แผ่นโลหะขอบแต่ง
لوحة الزينة



Rubber cushion
橡膠防震墊
ยางกันกระแทก
الحشوة المطاطية

Dashboard
儀表板
แผงหน้าปัทม
تابلو السيارة

Sleeve
外套機殼
ปลอกหุ้ม
الهيكل الواقي

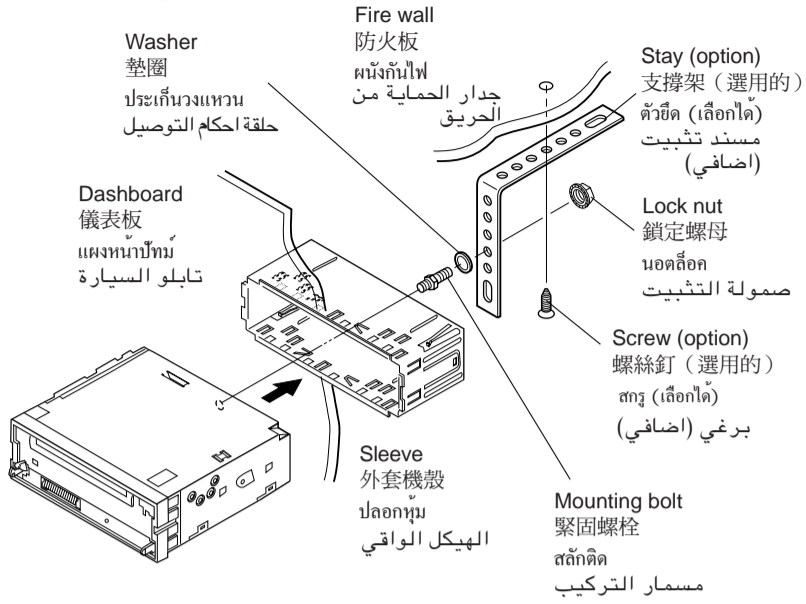


Mounting bolt
緊固螺栓
สลักประกอบ
مسمار التركيب

Trim plate
裝飾框
แผ่นโลหะขอบแต่ง
لوحة الزينة

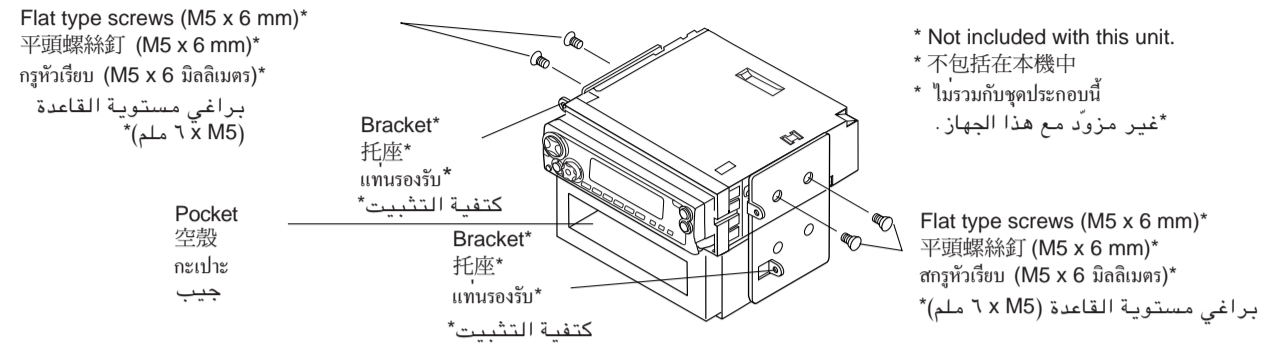
6 See "ELECTRICAL CONNECTIONS."
請參閱 "電路連接"。
กรุณาดูหัวข้อ การต่ออุปกรณ์ไฟฟ้า
انظر قسم "التوصيلات الكهربائية".

- When using the optional stay
- 若選用支撐架
- เมื่อใช้ตัวยึดแบบเลือกได้ (สามารถเลือกเปิดค้างไว้ได้)
- عند استخدام مسند اضافي للتثبيت



- When installing the unit without using the sleeve
- 若不使用外套機殼安裝本機
- เมื่อติดตั้งชุดประกอบโดยไม่ใช้ปลอกหุ้ม
- عندما تركيب الجهاز بدون استخدام الهيكل الواقي

In a Toyota for example, first remove the car radio and install the unit in its place.
以豐田牌 (TOYOTA) 汽車為例：首先取出汽車收音機，然後將本機裝入其空出的位置。
ตัวอย่างเช่น ในรถยนต์โตโยต้า ให้ถอดวิทยุติดรถยนต์ออกก่อนและติดตั้งชุดประกอบนี้เข้าไปแทน
على سبيل المثال، في سيارات نوع تويوتا، انزع راديو السيارة اولا بعد ذلك ركّب الجهاز في مكانه



Note: When installing the unit on the mounting bracket, make sure to use the 6 mm-long screws. If longer screws are used, they could damage the unit.
注意：把本機安裝在托座上時，務必使用 6mm 長的螺絲釘。如使用過長的螺絲釘，會損壞本機。
หมายเหตุ : เมื่อติดตั้งชุดประกอบลงในแท่นรองรับไว้ให้ใช้สกรูยาวขนาด 6 มิลลิเมตร ถ้าใช้สกรูยาวกว่านี้อาจทำให้ชุดประกอบเสียหายได้
ملاحظة: عند تركيب الجهاز على كنفية التثبيت، تأكد من استخدام براغي طول 6 ملم. في حالة استخدام براغي اطول من 6 ملم، فان ذلك يمكن ان يسبب تلف أو ضرر الجهاز.

Removing the unit

- Before removing the unit, release the rear section.
- 1 Remove the control panel.
- 2 Remove the trim plate.
- 3 Insert the 2 handles into the slots, as shown. Then, while gently pulling the handles away from each other, slide out the unit. **(Be sure to keep the handles after installing it.)**

拆卸本機

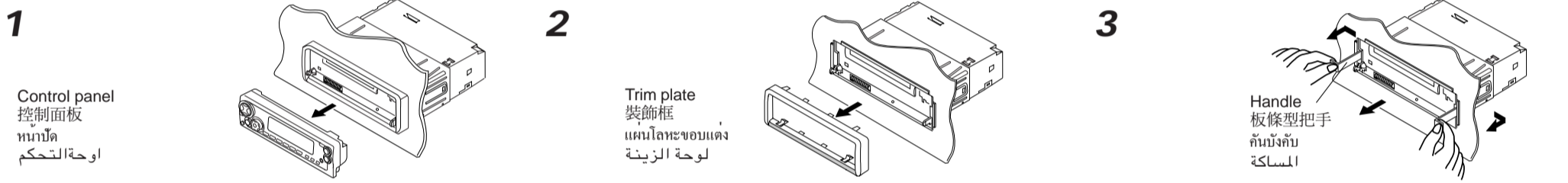
- 在拆卸本機前，應將本機後部的固定和連接部分鬆開。
- 1 拆下控制面板。
- 2 取下裝飾框。
- 3 按圖所示，將兩片板條型把手插入卡槽，然後輕穩地從兩側向外拉兩片把手，本機隨之拉出。**(安裝本機後，務必保存好兩片把手)**

การถอดชุดประกอบ

- ก่อนจะถอดชุดประกอบ ให้ปลดหน้าตัดส่วนท้ายก่อน
- 1 ถอดหน้าปัด
- 2 ถอดแผ่นโลหะขอบแต่ง
- 3 ใส่คันทันกับ 2 อันลงในร่องสำหรับไขพื้นลวด ดังภาพ จากนั้นให้เลื่อนชุดประกอบออก ในขณะที่ค่อย ๆ ดึงคันทันกับทั้งสองอันออกจากกัน **(คู่ให้คันทันกับทั้งสองอันอยู่ในตำแหน่งที่เหมาะสมหลังจากติดตั้งแล้ว)**

نزع الجهاز من تابلو السيارة

- قبل نزع الجهاز، حرر الجزء الخلفي.
- 1 انزع لوحة التحكم.
- 2 انزع لوحة الزينة.
- 3 ادخل المساكين داخل الشقوق، كما هو مبين في الشكل. بعد ذلك، اثناء سحب المساكين ببطافة بعيدا الواحدة عن الاخرى، اسحب الجهاز الى الخارج. **(تأكد من احتفاظك بالمساكين بعد تركيب الجهاز)**



Parts list for installation and connection

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

用於安裝和連接的零件裏

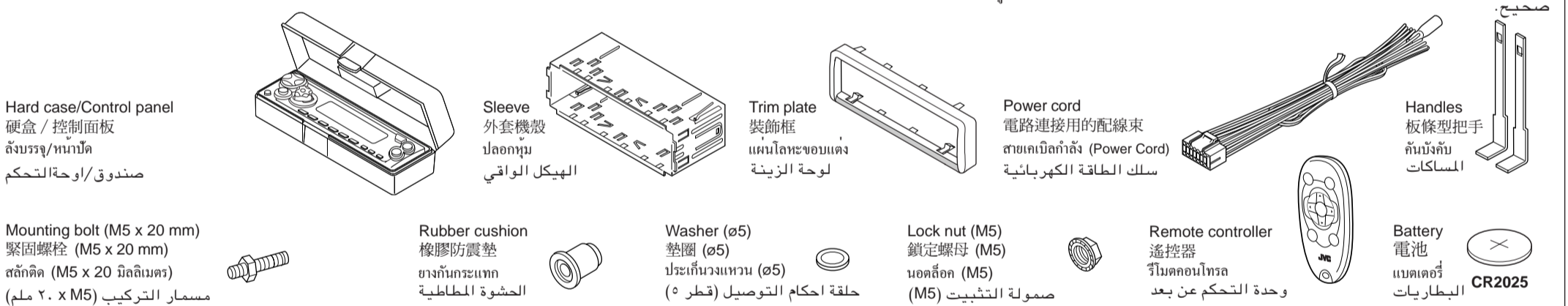
下列零件是隨本機提供的。清點以後，正確的將其裝配。

รายการส่วนประกอบสำหรับติดตั้งและเชื่อมต่อ

ส่วนประกอบต่อไปนี้ให้พร้อมกับชุดประกอบนี้ หลังจากตรวจสอบแล้ว ปรับตั้งเครื่องให้ถูกต้อง

قائمة اجزاء التركيب والتوصيل

الاجزاء التالية مزودة مع الجهاز. بعد فحص هذه الاجزاء، يرجى تركيبهم بشكل صحيح.



ELECTRICAL CONNECTIONS

電路連接

การเชื่อมโดยไฟฟ้า

التوصيلات الكهربائية

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit. If you are not sure how to install this unit correctly, have it installed by a qualified technician.

为防止短路，建議在安裝本機之前，斷開電池的負極，並把所有電路都連接好。如果您不能確定如何正確地安裝本機，應請合格的技術人員來安裝。

เพื่อป้องกันไฟฟ้าลัดวงจร เราขอแนะนำให้คุณเอาขั้วลบแบตเตอรี่ออกก่อนและทำการเชื่อมโดยไฟฟ้าทุกจุดก่อนที่จะติดตั้งชุดประกอบ ถ้าคุณไม่แน่ใจว่าติดตั้งชุดประกอบนี้ถูกต้องหรือไม่ให้หาช่างผู้เชี่ยวชาญเป็นผู้ติดตั้ง

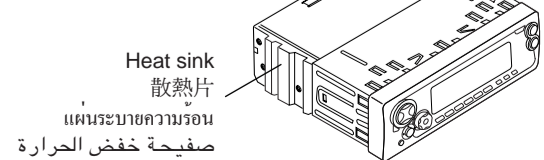
لمنع حدوث تقصير في الدوائر الكهربائية، نوصي بفصل طرف البطارية السالب ثم عمل التوصيلات الكهربائية قبل تركيب الجهاز. في حالة عدم معرفتك بكيفية تركيب الجهاز بشكل صحيح، يرجى ترك عملية تركيب الجهاز لشخص مختص ومؤهّل لتركيب مثل هذه الاجهزة.

- Note:**
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.
- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
 - If noise is a problem...
This unit incorporates a noise filter in the power circuit. However, with some vehicles, clicking or other unwanted noise may occur. If this happens, connect the unit's rear ground terminal (see connection diagram) to the car's chassis using shorter and thicker cords, such as copper braiding or gauge wire. If noise still persists, consult your JVC car audio dealer.
 - Maximum input of the speakers should be no more than 50 W at the rear and 50 W at the front, with an impedance of 4 Ω to 8 Ω.
 - **Be sure to ground this unit to the car's chassis.**
 - The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.

- 注意：**
本機僅可使用直流 12V、負極接地的電源系統。如果您的車輛沒有這一電源系統，則需要一個電壓變換器，可以在 JVC 汽車音響分銷商處買到。
- 把保險絲更換為額定負荷值的保險絲。如果保險絲經常燒壞，請向 JVC 汽車音響分銷商詢問。
 - 若出現噪音問題
本機在電源回路帶有一個噪音濾波器。但是，在某些車輛上，會出現咯咯聲或其它噪音。如果發生這類情況，將本機後面的接地端子用短而粗的導線，如編織銅線或標準電纜，連接到汽車底盤上（參閱電路接線圖）。如果噪音仍然持續存在，請向 JVC 汽車音響分銷商詢問。
 - 後置揚聲器的最大輸入功率應不可大於 50W，前置揚聲器的最大功率則為 50W，其阻抗的為 4Ω - 8Ω。
 - **務必將本機接到汽車底盤上。**
 - 本機使用後，散熱片會很熱。因此，在移出本機時，小心不要觸摸散熱片。

- หมายเหตุ :**
ชุดประกอบนี้ได้รับการออกแบบมาเพื่อใช้งานกับระบบกระแสไฟฟ้าสายดินขั้วลบระบบแสดง 12 โวลท์
การลดเสียงรบกวนโดยไม่มีระบบนี้ ต้องใช้เครื่องแปลงกระแสไฟด้วย ซึ่งสามารถหาซื้อได้จากร้านขายเครื่องเสียงรถยนต์ JVC
- ใช้ที่กักกันเพื่อแทนที่ฟิวส์ หากฟิวส์ขาดบ่อย ให้ปรึกษาช่างผู้เชี่ยวชาญเรื่องเสียงรถยนต์ JVC
 - หากเสียงมีปัญหา...
ชุดประกอบชุดนี้มีเครื่องกรองเสียงในวงจรกำลัง (Power Circuit) อย่างไรก็ตาม, ในบางกรณี, อาจเกิดเสียงที่ไม่พึงปรารถนาขึ้นได้ หากปัญหานี้เกิดขึ้น ให้ถอดสายดินด้านหลังของชุดประกอบ (ดูแผนภูมิการต่อเชื่อม) เข้ากับบัสชassisของรถยนต์โดยใช้สายเคเบิลที่สั้นและหนากว่า เช่น สายไฟเครื่องวัดหรือสายประสานทองแดง เป็นต้น หากยังมีเสียงอยู่ ให้ปรึกษาช่างผู้เชี่ยวชาญเรื่องเสียงรถยนต์ JVC
 - กระแสไฟเข้าสู่โพงสูงสุดบริเวณด้านหลังควรเกินกว่า 50 วัตต์และบริเวณส่วนหน้า 50 วัตต์ และมีค่าความทนทาน 4 - 8 โอห์ม
 - ตรวจสอบให้แน่ใจว่าต่อชุดประกอบชุดนี้ลงบนแชสซีส์รถยนต์แล้ว
 - แผ่นระบายความร้อนจะร้อนมากหลังจากใช้ ระยะเวลาวิ่งอย่าไปสัมผัสสหมือถอดชุดประกอบนี้

- ملاحظة:**
لقد صمم هذا الجهاز ليعمل بواسطة تيار كهربائي مباشر DC، ١٢ فولت، انظمة كهربائية تأريض سالب. في حالة عدم وجود مثل هذا النظام في سيارتك، يجب استخدام محول فولتاج، ويمكن شراء هذا المحول من وكلاء الاجهزة الصوتية للسيارات ماركة JVC.
- استبدل الفيوز بأخر يحمل نفس القياسات الموصوفة. اذا تكرر احتراق الفيوز، يرجى استشارة وكلاء الاجهزة الصوتية للسيارات ماركة JVC. اذا كان الضجيج هو المشكلة...
 - يستخدم هذا الجهاز فلتر ضجيج داخل دائرة الطاقة الكهربائية. مع ذلك، في بعض السيارات، يمكن ان يحدث نوع من الطقطقة أو الضجيج غير المرغوب في حالة حدوث مثل ذلك، اوصل طرف التأريض الموجود في خلفية الجهاز (انظر رسم التوصيل) مع هيكل السيارة بواسطة استخدام اسلاك اقصر واسمك، مثل سلك النحاس الجدول او سلك مقياسي. في حالة عدم توقف الطقطقة أو الضجيج، يرجى استشارة وكلاء الاجهزة الصوتية للسيارات ماركة JVC.
 - يجب ان يكون الحد الاقصى لدخل السمعاعات اكثر من ٥٠ واط للسمعاعات الخلفية و٥٠ واط للسمعاعات الامامية، مع ممانعة بين ٤ الى ٨ اوم.
 - **تأكد من تأريض الجهاز مع هيكل السيارة.**
 - تصبح صفيحة خفض الحرارة ساخنة جدا بعد الاستخدام. تأكد من عدم ملامستها عند نزع الجهاز.



A Typical Connections / 典型的接線方法 / การเชื่อมต่อแบบปกติ / التوصيلات النموذجي

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.

- 1 Connect the colored leads of the power cord to the car battery, speakers and automatic antenna (if any) in the following sequence:
1 Black: ground
2 Yellow: to car battery (constant 12 V)
3 Red: to an accessory terminal
4 Blue: to automatic antenna (250 mA max.)
5 Blue with white stripe: to other equipment (also used when the automatic power antenna requires power - 200 mA max.)
6 Orange with white stripe: to car light control switch (only for KD-SX985)
7 Brown: to cellular phone system (For details, refer to the instructions of the cellular phone) (only for KD-SX985)
8 Others: to speakers

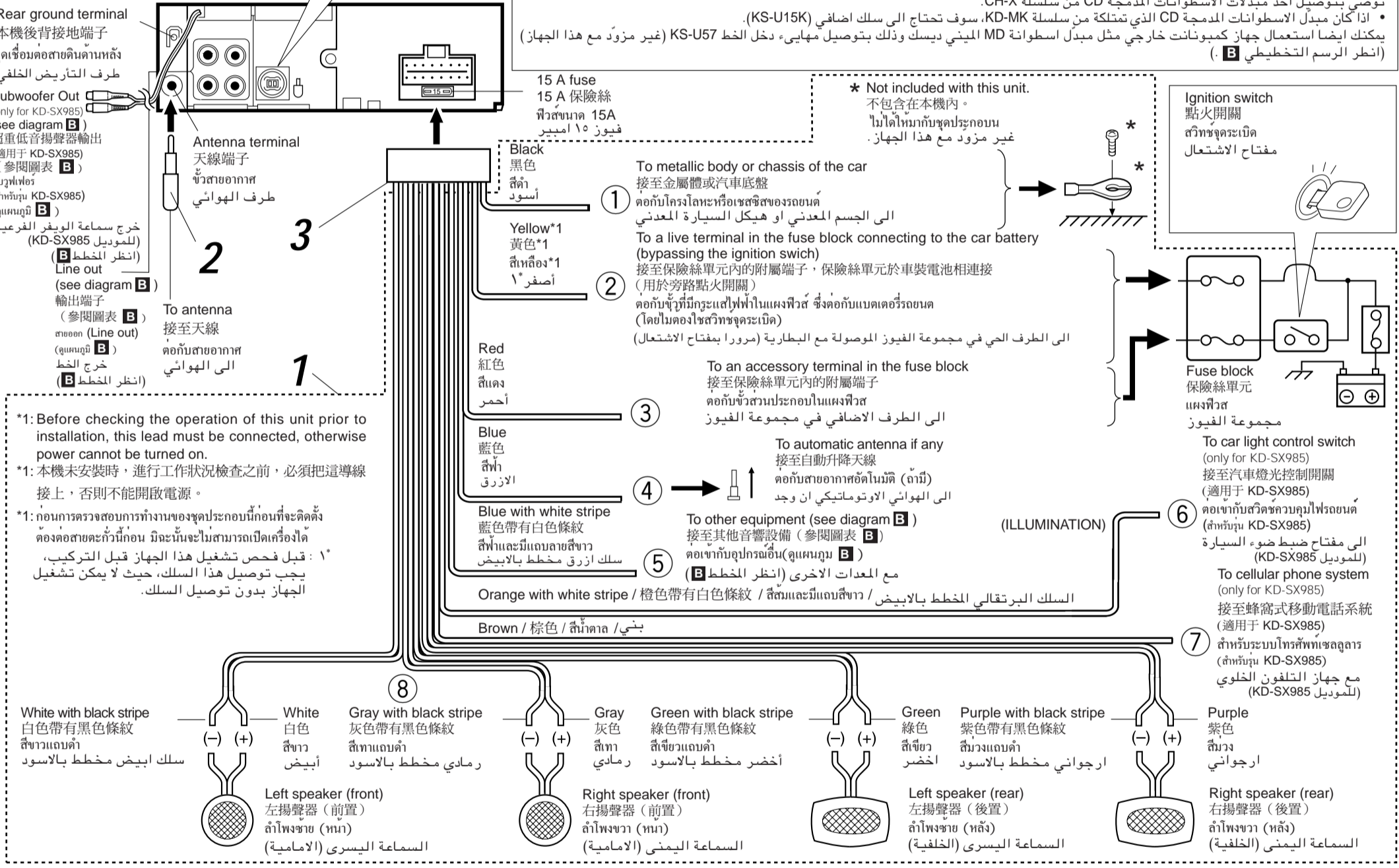
- 接線前：仔細檢查汽車內的線路。不正確的接線會導致本機嚴重損壞。
1 按下述順序將配線束各個不同色標的導線接頭分別接至電池、揚聲器和自動升降天線（如有裝設）：
1 黑色：接地
2 黃色：接至車裝電池（恆定 12V）
3 紅色：接至保險絲單元內的附屬端子
4 藍色：接至自動升降天線（最大 250 毫安）
5 藍色帶有白色條紋：接至其他音響設備（也用於當自動升降天線（最大 200 毫安）
6 橙色帶有白色條紋：接至汽車燈光控制開關（適用於 KD-SX985）
7 棕色：接至行動電話系統（要了解更多資訊，請參閱行動電話的使用說明書。）（適用於 KD-SX985）
8 其他：接至揚聲器

- ก่อนทำการเชื่อมต่อ : ตรวจสอบการเดินสายไฟในรถยนต์อย่างระมัดระวัง
1 เชื่อมต่อสายเคเบิลสีต่าง ๆ ของสายเคเบิลกำลัง (Power Cord) เข้ากับแบตเตอรี่ ลำโพง และสายอากาศ อัตโนมัติในรถยนต์ (ถ้ามี) ตามลำดับต่อไปนี้
1 สีดำ : สายดิน
2 สีเหลือง : ต่อกับเบตเตอรี่รถยนต์ (12 โวลท์คงที่)
3 สีแดง : ต่อกับขั้วส่วนประกอบ
4 สีฟ้า : ต่อเข้ากับเสาอากาศอัตโนมัติ (ขนาดสูงสุด 250 mA)
5 สีฟ้าและมีแถบสีขาว : ต่อเข้ากับอุปกรณ์อื่น : ใช้โดยร่วมกับกรณีที่ต้องการเพิ่มกำลังไฟฟ้าให้แก่เสาอากาศอัตโนมัติที่ต้องการกำลังไฟฟ้า (ขนาดสูงสุด 200 mA)
6 สีส้มและมีแถบสีขาว : ต่อเข้ากับสวิทช์ควบคุมไฟรถยนต์ (สำหรับรุ่น KD-SX985)
7 สีน้ำตาล : สำหรับระบบโทรศัพท์มือถือ (สำหรับรายละเอียด โปรดอ่านคำแนะนำนำของโทรศัพท์มือถือ) (สำหรับรุ่น KD-SX985)
8 สีอื่น ๆ : ต่อกับลำโพง

- قبل البدء بالتوصيل: تأكد من شبكة الاسلاك في السيارة بدقة حتى لا يحدث خطأ في عملية توصيل الجهاز. يمكن ان يسبب التوصيل الخاطئ الى حصول عطل حقيقي للجهاز.
1 اوصل الاسلاك الملونة لسلك تزويد الطاقة الكهربائية مع بطارية السيارة، السماعات، والهوائي الاوتوماتيكي (ان وجد) حسب التسلسل التالي.
1 السلك الاسود: مع الارض (مع هيكل السيارة)
2 السلك الاصفر: مع بطارية السيارة (ثابت ١٢ فولت)
3 السلك الاحمر: مع الطرف الاضافي
4 السلك الازرق: مع الهوائي الاوتوماتيكي (الحد الاقصى ٢٥٠ ميلي امبير)
5 السلك الازرق المخطط بالابيض: مع المعدات الاخرى : يستعمل ايضا عندما يتطلب تشغيل الهوائي الاوتوماتيكي طاقة اكثر من ٢٠٠ ميلي امبير.
6 السلك البرتقالي المخطط بالابيض: مع مفتاح ضبط ضوء السيارة. (للموديل KD-SX985)
7 السلك البني: مع جهاز التلفون الخليوي (للتفاصيل، ارجع الى تعليمات التلفون الخليوي) (للموديل KD-SX985)
8 الاسلاك الاخرى: مع السماعات

CAUTION / 注意 / تحذير
Before connecting the CD changer, make sure that the unit is turned off.
連接 CD 轉換器之前，應先將本機關閉。
ก่อนเชื่อมต่อเครื่องเล่นซีดี
กรุณาตรวจสอบให้แน่ใจว่าเครื่องเล่นซีดีนั้นปิดอยู่
قبل توصيل مبدل الاسطوانات CD، تأكد من إيقاف تشغيل الجهاز.

When connecting a CD changer, we recommend to use one of the CH-X series CD changers.
If your CD changer is one of the KD-MK series, you need an optional cord (KS-U15K).
You can also use an external component such as a portable MD player by connecting the Line Input Adaptor KS-U57 (not supplied). (See diagram B.)
我們建議您應當接上一個 CH-X 系列的 CD 轉換器。
如果您使用的是 KD-MK 系列，您需要選用一條連接線 KS-U15K。
您可以通過連接線輸入適配器 KS-U57 (未提供) 來使用外接部件，如手提式 MD 播放機等 (見 B 圖示)
ในการเชื่อมต่อเครื่องเล่นซีดี เราขอแนะนำให้ใช้เครื่องเล่นซีดีรุ่นใดรุ่นหนึ่งในตระกูล CH-X
หากเครื่องเล่นซีดีของคุณเป็นรุ่นที่อยู่ในตระกูล KD-MK คุณต้องใช้สายเพิ่มเติม (KS-U15K)
คุณสามารถใช้อุปกรณ์ภายนอกเช่นเครื่องเล่นเอ็มดีแบบพกพาได้ โดยนำมาเชื่อมต่อกับแอดปเตอร์สายสัญญาณเข้า KS-U57 (ไม่ได้ให้มาด้วย) (ดูแผนภูมิ B)
نوصي بتوصيل احد مبدلات الاسطوانات المدمجة CD من سلسلة CH-X.
• اذا كان مبدل الاسطوانات المدمجة CD الذي تمتلكه من سلسلة KD-MK، سوف تحتاج الى سلك اضافي (KS-U15K).
يمكنك ايضا استعمال جهاز كمبونات خارجي مثل مبدل اسطوانة MD الميني ديسك وذلك بتوصيل مهاييء دخل الخط KS-U57 (غير مزود مع هذا الجهاز). (انظر الرسم التخطيطي B.)

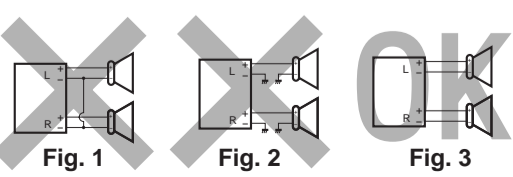


PRECAUTIONS on power supply and speaker connections:
DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.
Connect the black lead (ground), yellow lead (to car battery, constant 12 V), and red lead (to an accessory terminal) correctly.
BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.
If the speaker wiring in your car is as illustrated in Fig. 1 and Fig. 2 below, DO NOT connect the unit using that original speaker wiring. If you do, the unit will be seriously damaged.
Redo the speaker wiring so that you can connect the unit to the speakers as illustrated in Fig. 3.
If the speaker wiring in your car is as illustrated in Fig. 3, you can connect the unit using the original speaker wiring in your car.
If you are not sure of the speaker wiring of your car, consult your car dealer.

電源和揚聲器接線注意事項：
切勿把揚聲器導線接頭接至電池，否則本機將會嚴重損壞。
正確地連接黑色導線接頭（接地）、黃色導線接頭（接車裝電池，恆定12V）和紅色導線接頭（接至保險絲單元的附屬端子）。
在把揚聲器導線接頭接至揚聲器之前，檢查您汽車上的揚聲器線路：
如果您汽車上揚聲器線路象圖1和圖2所示，不要使用原裝的揚聲器線路。如果使用，本機將嚴重損壞。要重新連接揚聲器線路，可按圖3所示，把本機與揚聲器相連接。
如果您汽車上揚聲器線路象圖3所示，可使用原裝的揚聲器線路與本機相連接。
如果您不能確定您汽車上揚聲器線路，請向您的汽車分銷商詢問。

ข้อควรระวังสำหรับการเชื่อมต่อแหล่งจ่ายกำลังและลำโพง:
อย่าต่อสายเคเบิลแอดมิเตอร์ของลำโพงเข้ากับเบตเตอรี่รถยนต์ มิฉะนั้นชุดประกอบจะได้รับความเสียหายมาก
ต่อสายเคเบิลแต่ละสีให้ถูกต้อง : สีดำ (สายดิน), สีเหลือง (เข้ากับเบตเตอรี่รถยนต์ที่มีกำลังคงที่ 12 โวลท์) และสีแดง (เข้ากับขั้วส่วนประกอบ)
ก่อนที่จะเชื่อมต่อสายเคเบิลกำลังของลำโพงเข้ากับลำโพง ให้ตรวจสอบการเดินสายไฟลำโพงในรถของคุณให้เรียบร้อยเสียก่อน
หากการเดินสายไฟลำโพงในรถของคุณเป็นเหมือนในรูปภาพที่ 1 และรูปภาพที่ 2 ดังข้างล่างนี้
อย่าต่อชุดประกอบที่ให้การเดินสายไฟลำโพงแบบดั้งเดิมนั้น มิฉะนั้นชุดประกอบจะได้รับความเสียหายมาก
ให้จัดการเดินสายไฟลำโพงใหม่ เพื่อที่คุณจะสามารถต่อชุดประกอบเข้ากับลำโพงตามรูปภาพที่ 3 ได้
หากการเดินสายไฟลำโพงในรถของคุณเป็นเหมือนในรูปภาพที่ 3 คุณสามารถต่อชุดประกอบที่ให้การเดินสายไฟลำโพงแบบดั้งเดิมในรถของคุณได้เลย
หากคุณไม่แน่ใจว่าการเดินสายไฟลำโพงในรถของคุณเป็นแบบใด ให้ปรึกษาผู้เชี่ยวชาญรถยนต์ของคุณ

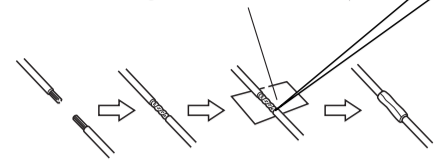
تنبيهات حول تزويد الطاقة الكهربائية وتوصيل السماعات:
لا توصل اسلاك تزويد طاقة السماعات مع بطارية السيارة، لان ذلك يؤدي الى حصول ضرر للسماعات.
• اوصل السلك الاسود (الارضى)، والسلك الاصفر (مع بطارية السيارة، ثابت ١٢ فولت)، والسلك الاحمر (مع الطرف الاضافي) بشكل صحيح.
• قبل توصيل اسلاك تزويد طاقة السماعات مع السماعات، افحص شبكة اسلاك السماعات داخل سيارتك.
- اذا كانت شبكة اسلاك السماعات داخل سيارتك كما هي مبينة في الشكل ١ والشكل ٢ الموجودة في الاسفل، لا توصل الجهاز بواسطة استخدام شبكة اسلاك السماعات الاصلية. اذا تم توصيل الجهاز بهذه الطريقة، سيؤدي ذلك الى حصول ضرر. اعد عمل شبكة اسلاك السماعات بحيث يمكنك توصيل الجهاز مع السماعات كما هو مبين في الشكل ٣.
- اذا كانت شبكة اسلاك السماعات داخل سيارتك كما هي مبينة في الشكل ٢، يمكنك توصيل الجهاز بواسطة استخدام شبكة اسلاك السماعات الاصلية داخل سيارتك.
- في حالة عدم معرفتك بشبكة اسلاك السماعات داخل سيارتك، استشر الوكيل او ذوي الخبرة بهذا الخصوص.



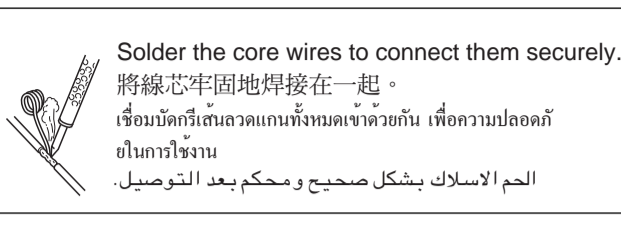
Connecting the leads / 導線接頭的連接 / ต่อสายตะกั่ว / توصيل الاسلاك

Twist the core wires when connecting.
連接時剝掉導線的外皮。

บิดเส้นลวดแกนเพื่อเชื่อมคือ
ابرهم الاسلاك بشكل صحيح قبل التوصيل.

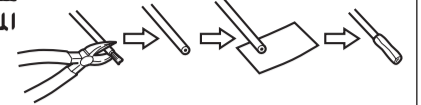


Solder the core wires to connect them securely.
將線芯牢固地焊接在一起。
เชื่อมบิตที่เส้นลวดแกนทั้งหมดเข้าด้วยกัน เพื่อความปลอดภัย
ในการใช้งาน
หุ้ม الاسلاك بشكل صحيح ومحكم بعد التوصيل.



CAUTION / 注意 / ข้อควรระวัง / تحبيه

- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- 为防止电源短路，請用絕緣帶包住未使用電線的端子。
- การป้องกันการลัดวงจร จะต้องพันขั้วสายตะกั่วที่ไม่ใช้แล้วด้วยเทปพันสายไฟ (Insulating tape)
- من اجل منع التقصير في الدوائر - الكهربائية، ضع شريط عازل ولاصق على اطراف الاسلاك غير المستعملة.



B Connections Adding Other Equipment / 連接附加的其他音響設備 / การต่อเพิ่มเติมเข้ากับอุปกรณ์อื่น ๆ / توصيل الاجهزة الاخرى الاضافية

Amplifier / 功率放大器 / เครื่องขยาย / مضخم الصوت

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

- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- Connect this unit's line-out terminals to the amplifier's line-in terminals.
- Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused. (Cover the terminals of these unused leads with insulating tape, as illustrated above.)
- Only for KD-SX985: 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.

你可以連接放大器和其裝置以加強你的汽車音響系統功能。

- 將遙控引導端（藍色帶有白色條紋）和其他裝置上的遙控引導端連接起來，以便可以通過本機進行遙控。
- 將本機的輸出終端和放大器輸入終端連接起來。
- 將揚聲器和本機斷開，再接上放大器。將本機的揚聲器接線放置不用。（按照上面所示的方式，用絕緣膠把不用的線端包起來。）
- 適用於 KD-SX985: 本機的 Line 輸出水平一直保持在較高的水平，以便保證本機具有高質量的音響效果。如果將外部功率放大器連接至本機，請減少外部功率放大器的增益控制，以便本機獲得最佳的效果。

คุณสามารถต่อเครื่องขยายและอุปกรณ์อื่น ๆ เพื่ออัพเกรดระบบเครื่องเสียงในรถยนต์ของคุณได้

- ต่อสายตะกั่วระยะไกล (สีน้ำเงินลายขาว) เข้ากับสายตะกั่วระยะไกลของอุปกรณ์อื่น ๆ เพื่อจะสามารถควบคุมโดยชุดประกอบนี้ได้
- ต่อขั้วสายออก (Line-out) ของชุดประกอบนี้เข้ากับขั้วสายเข้า (Line-in) ของเครื่องขยาย
- ถอดลำโพงออกจากชุดประกอบนี้ แล้วต่อเข้ากับเครื่องขยายทั้งสายตะกั่วลำโพงของชุดประกอบนี้ไว้ (พันขั้วของสายตะกั่วที่ไม่ได้ใช้เหล่านี้ให้พร้อมด้วยเทปพันสายไฟดังตัวอย่างข้างต้น)
- (สำหรับรุ่น KD-SX985) ระดับพลังเสียงออกของเครื่องนี้ ถูกปรับไว้ให้สูง เพื่อคุณภาพของเสียง hi-fi ที่ส่งออกจากเครื่องนี้ เวลาต่อเครื่องขยายเสียงอื่นเข้ากับเครื่องนี้ ปรับการควบคุมเสียงที่จะมีต่อเครื่องขยายเสียงอื่นให้ลดลง เพื่อให้ได้คุณภาพเสียงที่ดีที่สุดจากเครื่องนี้

يمكنك توصيل مضخم صوت وجهاز اخر لتحسين اداء جهاز ستيريو السيارة.

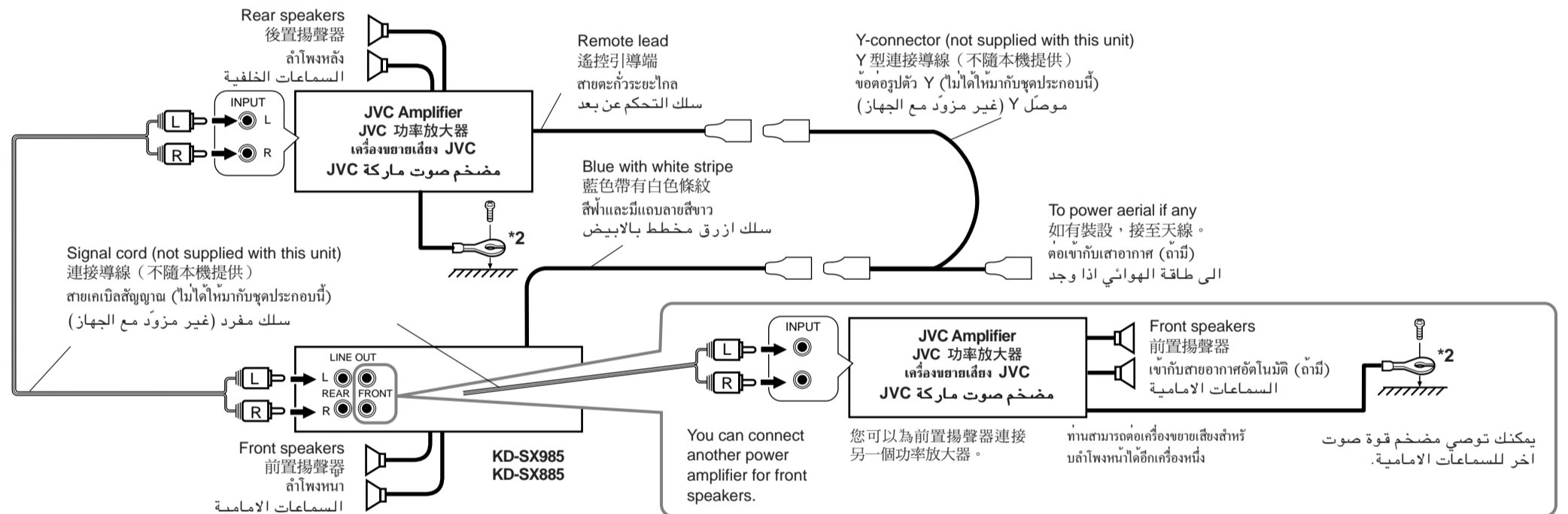
- اوصل سلك التحكم عن بعد (الازرق المخطط بالابيض) مع سلك التحكم عن بعد للجهاز الاخر بحيث يتم التحكم بالجهاز من خلال هذا الجهاز.
- اوصل أطراف خرج - الخط لهذا الجهاز مع اطراف دخل - الخط للمضخم الصوت.
- افصل السماعات من هذا الجهاز، اوصلهم مع مضخم الصوت. اترك اسلاك سماعات هذا الجهاز بدون استعمال. (غطي اطراف هذه الاسلاك غير المستعملة بشريط عازل، كما هو موضح في الاعلى.)
- (للموديل KD-SX985) تم ضبط مستوى خرج الخط لهذا الجهاز على الوضع العالي من اجل المحافظة على اعادة تكوين الاصوات الأصلية هاي-فاي من هذا الجهاز. عند توصيل مضخم صوت خارجي مع هذا الجهاز، دور ضبط مستوى الصوت الموجود على مضخم الصوت الخارجي الى اسفل من اجل الحصول على افضل اداء من هذا الجهاز.

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

*2 將地線與金屬車體或汽車底盤緊密連接，連接處應沒有被油漆覆蓋（如果已塗上油漆，在連接電線前，將油漆刮去）。如果不這樣做，可能會損壞本機。

*2 ต่อสายดินให้แน่นเข้ากับตัวถังเหล็ก หรือตัวถังรถ - ตรงส่วน ที่ไม่มีสีเคลือบ (หากมีสีเคลือบอยู่ ให้ขูดสีออกก่อน ก่อนต่อสายดิน) หากไม่ปฏิบัติตามคำแนะนำนี้ เครื่องอาจชำรุดหรือเสียหายได้

*2 اوصل السلك الارضي بشكل محكم مع هيكل او جسم السيارة المعدني - مع الموضع غير المطلي بالدهان (اذا كان الموضع مطلي بالدهان، ازل الدهان قبل توصيل السلك). في حالة توصيل السلك مع الهيكل دون ازالة الدهان يمكن ان يسبب ذلك ضرر لهذا الجهاز.



Subwoofer (SUBWOOFER OUT) / 超重低音揚聲器 / ขั้วลุ่มเฟออร์ (ขั้วลุ่มเฟออร์ สายออก) / سماعة الويفر الفرعية (خرج سماعة الويفر الفرعية)

Only for KD-SX985

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

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

(適用於 KD-SX985)

您可以將超重低音揚聲器連接至功率放大器以加強低音效果。

- 請按照超重低音揚聲器的操作手冊進行連接。

(สำหรับรุ่น KD-SX985)

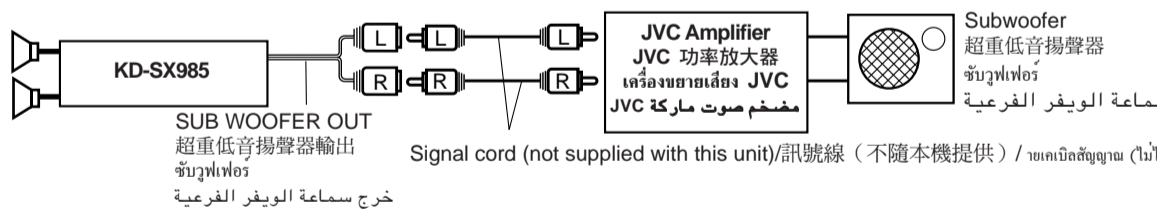
ท่านสามารถต่อขั้วลุ่มเฟออร์ผ่านเครื่องขยายเสียง เพื่อให้เสียงทุ้มเพิ่มขึ้น

- รายละเอียดเกี่ยวกับการต่อ โปรดดูคำแนะนำที่แนบมาขั้วลุ่มเฟออร์

(للموديل KD-SX985)

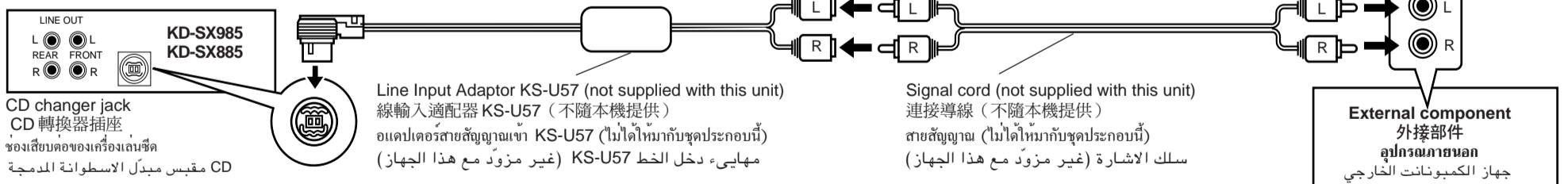
يمكنك توصيل سماعة ويفر فرعية عبر مضخم الصوت لتقوية صوت الباص.

- من اجل التوصيلات، ارجع الى كتيب التعليمات المرفق مع سماعة الويفر الفرعية.



External component / 外接部件 / อุปกรณ์ภายนอก / جهاز الكمبيوتر الخارجي

See page 35 of the instructions Manual (separate volume) / 請參閱 35 頁使用說明書 (另一冊) / ดูหน้า 35 ของคู่มือการใช้ (ขณะเล่น) / انظر صفحة ٣٥ من كتيب تعليمات التشغيل (كتاب منفصل)



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?
- Unit becomes hot.**
 - Is the speaker output lead grounded?
 - Are the "—" terminals of L and R speakers grounded in common?

故障排除

- 保險絲燒斷。
 - 檢查紅色導線接頭和黑色導線接頭是否連接正確？
- 電源不能接通。
 - 檢查黃色導線接頭是否接上？
- 揚聲器沒有聲音。
 - 檢查揚聲器輸出導線接頭是否短路？
- 聲音失真。
 - 檢查揚聲器輸出端子是否接地？
 - 檢查揚聲器的左 (L)、右 (R) 端子的負極 (-) 是否共同接地？
- 本機發熱。
 - 檢查揚聲器輸出端子是否接地？
 - 檢查揚聲器的左 (L)、右 (R) 端子的負極 (-) 是否共同接地？

การตรวจสอบปัญหาขัดข้อง

- ฟิวส์ขาด
 - มีการเชื่อมสายตะกั่วสีแดงและสีดำอย่างถูกต้องหรือไม่
- ไม่สามารถเปิดเครื่องได้
 - มีการเชื่อมสายตะกั่วสีเหลืองหรือไม่
- ไม่มีเสียงออกจากลำโพง
 - สายตะกั่วส่วนที่ออกทางลำโพงลัดวงจรหรือไม่
- เสียงเพี้ยน
 - สายตะกั่วส่วนที่ออกทางลำโพงต่อลงดินหรือไม่
 - สายขั้วลบ ของลำโพงด้านซ้ายและขวาต่อลงดินตามปกติหรือไม่
- ชุดประกอบร้อนขึ้น
 - สายตะกั่วที่ออกทางลำโพงต่อลงดินหรือไม่
 - สายขั้วลบ ของลำโพงด้านซ้ายและขวาต่อลงดินตามปกติหรือไม่

البحث عن الاعطال والاصلاح

- يحترق الفيوز.
 - هل السلك الاحمر والاسود موصولة بشكل صحيح؟
- لا يمكن توصيل الطاقة الكهربائية.
 - هل السلك الاصفر موصول؟
- لا يصدر صوت من السماعات.
 - هل هناك تقصير في دائرة سلك خرج السماعة؟
- الصوت مشوه.
 - هل سلك خرج السماعة موصول بالارض؟
 - هل الاطراف السالبة (-) للسماعة اليسرى L واليمنى R موصولة بالارض مع بعض؟
- يسخن الجهاز.
 - هل سلك خرج السماعة موصول بالارض؟
 - هل الاطراف السالبة (-) للسماعة اليسرى L واليمنى R موصولة بالارض مع بعض؟