

JVC



9-INCH WIDESCREEN MONITOR WITH DVD PLAYER

KV-MRD900

MONITOR DE PANTALLA ANCHA DE 9 PULGADAS CON REPRODUCTOR DVD

KV-MRD900

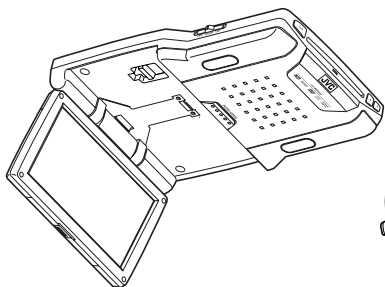
MONITEUR COULEUR A ECRAN LARGE DE 9 POUCES AVEC LECTEUR DE DVD

KV-MRD900

ENGLISH

ESPAÑOL

FRANÇAIS



WMA MP3

- This system cannot receive television broadcasts. Use the separately sold TV tuner unit KV-C1000 for optional television broadcast reception.
- Este sistema no puede recibir emisiones de televisión. Utilice la unidad de sintonizador de TV móvil KV-C1000 vendido por separado para una recepción opcional de emisiones de televisión.
- Ce système ne peut pas recevoir les émissions de télévision. Utilisez le module de tuner de télévision mobile KV-C1000 vendu séparément afin de pouvoir recevoir les émissions de télévision.

For installation and connections, refer to the separate manual.

Para la instalación y las conexiones, refiérase al manual separado.

Pour l'installation et les raccordements, référez-vous au manuel séparé.

For customer Use:

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

Model No. _____

Serial No. _____

INSTRUCTIONS MANUAL DE INSTRUCCIONES MANUEL D'INSTRUCTIONS

LVT1340-001A

[J]

WARNINGS

- **DO NOT INSTALL THE MONITOR IN A LOCATION WHICH OBSTRUCTS DRIVING, VISIBILITY, SAFETY DEVICE FUNCTION SUCH AS AIR BAGS OR WHICH IS PROHIBITED BY APPLICABLE LAWS AND REGULATIONS.**
- There may be legal regulations defining the permissible installation locations for the monitor which differ by country or by state. Be sure to install the monitor in a correct location according to such laws.
- The driver must not operate the monitor while driving.
 - * Stop your vehicle in a safe location when operating the monitor.
- The driver must not watch the television or playback pictures while driving. If the driver does it while driving, it may lead to carelessness and cause an accident.
- Keep the monitor at an appropriate sound level while driving.

Driving with the sound at a level that prevents you from hearing sounds outside of and around the vehicle may cause an accident.
- Be sure not to let the monitor fall or be strongly impacted since this may cause a malfunction or fire.
- Do not use the monitor with the engine off. Doing so with the engine off will consume battery power and may prevent the engine from starting.
- When not in use, close the liquid crystal panel and store it into the compartment.
- Do not touch the surface of the liquid crystal panel directly.
- Do not hang any object on the monitor or hang down, as this may damage the monitor.

**CAUTION:**

This monitor should be used on DC 12 V only. To prevent electric shocks and fire hazards, DO NOT use any other power source.

CAUTION:

This product has a fluorescent lamp that contains a small amount of mercury. It also contains lead in some components. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information please contact your local authorities, or the Electronics Industries Alliance: <http://www.eiae.org/>

Installation requires some special knowledge.

Do not install the monitor yourself. Consult a dealer having special knowledge of this kind for safe and reliable installation.

CAUTIONS on the supplied headphones —KS-HP2:

- DO NOT leave the headphones in a place exposed to direct sunlight for a long time, such as a dashboard, as they may be damaged.
- Keep the headphones away from a cellular phone to avoid interference.
- DO NOT turn off the power with the volume set at high level, as the sudden blast of sound can damage your hearing and/or headphones next time you use the headphones.
- If you experience a ringing in your ears, reduce volume or stop using the headphones.

Thank you for purchasing a JVC product.

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

INFORMATION (For U.S.A.)

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

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

IMPORTANT FOR LASER PRODUCTS

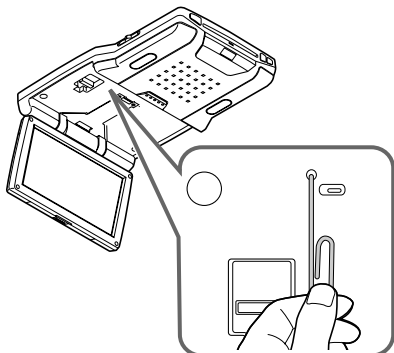
1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Caution on volume setting:

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

How to reset your monitor



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

How to forcibly eject a disc

If a disc cannot be recognized by the monitor or cannot be ejected...

Monitor



The disc comes out.

(for about 5 seconds while power is on)

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

How to read this manual

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

- Some related tips and notes are explained in “More about this monitor” (see pages 33 – 35).
- Button operations are mainly explained with the illustrations as follows:

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

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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....

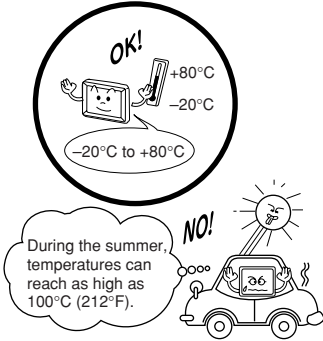
If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Precautions

Cautions for handling the liquid crystal panel

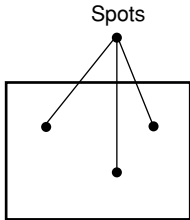
Do not expose the liquid crystal panel to direct sunlight.

- Storage temperature range: -20°C to $+80^{\circ}\text{C}$ (-4°F to 176°F)



When the liquid crystal panel reaches high temperatures or low temperatures, chemical changes occur within the liquid crystal panel which may cause it to malfunction.

The red spots, blue spots and green spots on the panel surface are a normal characteristic of liquid crystal panels, and not a problem.



Note:

The liquid crystal panel is built with very high precision technology and has at least 99.99% effective image pixels. Be aware that on 0.01% of the panel there may be missing or constantly lit pixels.

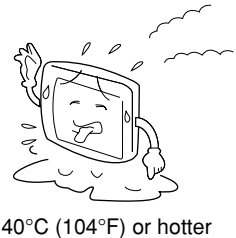
Do not drop the liquid crystal panel or strike it sharply.



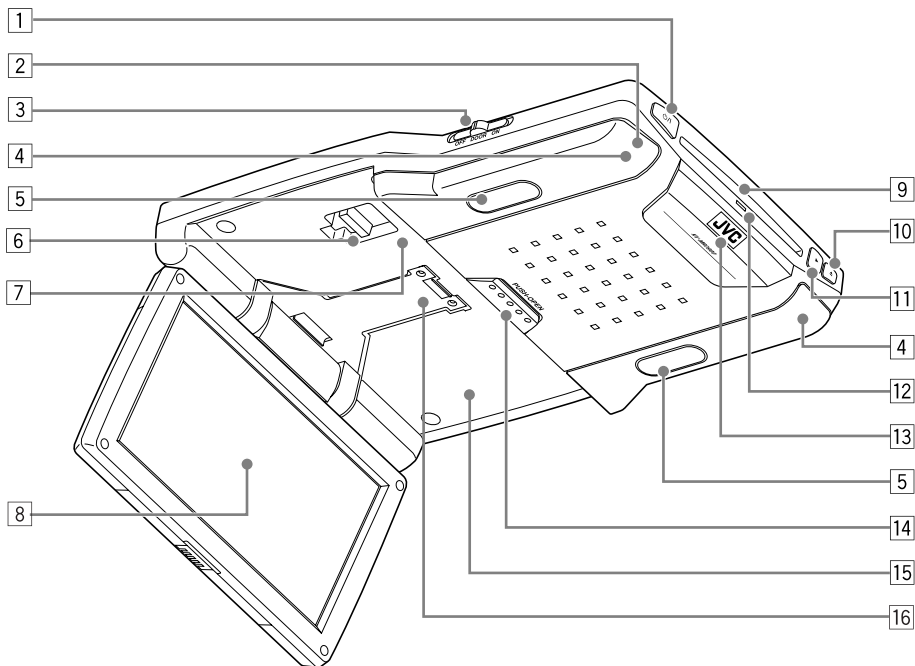
When the temperature is very cold or very hot, the image may not appear clearly or may move slowly.

The image may not be synchronized with the sound or the image quality may decline in such environments. Note that this is not a malfunction or problem.

- Usage temperature range: 0°C to $+40^{\circ}\text{C}$ (32°F to 104°F)



Parts identification

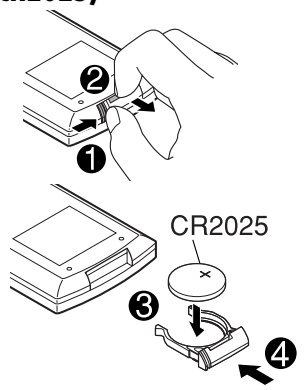


- | | |
|---|--|
| 1 \odot/I (standby/on) button | 8 Screen (Liquid crystal panel) |
| • Turns on the power if pressed. | 9 Disc loading slot |
| • Turns off the power if pressed and held. | 10 ▲ (eject) button |
| 2 Remote sensor | 11 ► (play) button |
| 3 Dome light switch | 12 Disc loading lamp |
| • See “To activate the door sensor” on page 12. | 13 White LED |
| 4 IR transmitters | 14 PUSH-OPEN button |
| 5 Dome lights | 15 Screen compartment |
| 6 Arm lock lever | 16 Screen arm |
| 7 Reset button | |

When you watch the screen at an angle, the picture might not be clear. This is not a malfunction. The finest picture can be seen when you watch the screen straight-on.

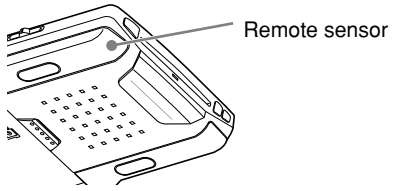
Remote controller — RM-RK230

Installing the lithium coin battery (CR2025)



Before using the remote controller:

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

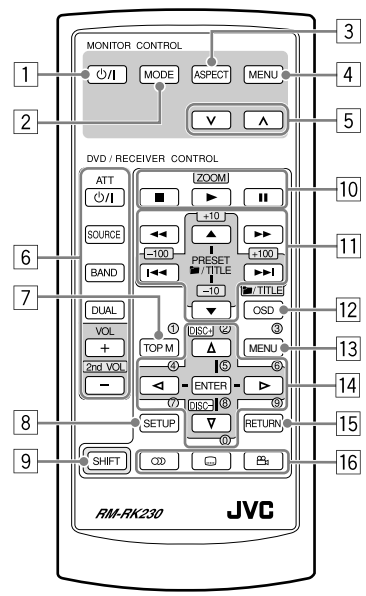


- Do not expose the remote sensor to strong light (direct sunlight or artificial lighting).

Warning:

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

Main elements and features



MONITOR CONTROL

- 1 \odot/I (standby/on) button
 - Turns on the power if pressed.
 - Turns off the power if pressed and held.
- 2 MODE button
 - Selects the playback source.
- 3 ASPECT button
 - Changes the aspect ratio of the screen.
- 4 MENU button
 - Calls up the menu, then selects the adjustable menu items.
- 5 ∇/\wedge buttons
 - Adjust the level of the selected item or select an appropriate setting for selected item.

DVD/RECEIVER CONTROL

- 6 Receiver control buttons*1
 - ϕ /I ATT (standby/on attenuator) button
 - SOURCE button
 - BAND button
 - DUAL button
 - VOL + / - (2nd VOL +/-) buttons
- 7 TOP M (menu) button*2
 - Displays the DVD and VCD*3 disc menu.
- 8 SETUP button*2
- 9 SHIFT button
- 10 Disc basic operation buttons
 - (stop), ► (play), || (pause)
 - ► (play) button functions as ZOOM button when pressed with SHIFT button.
- 11 Advanced disc operation buttons
 - ■/TITLE ▲ / ▼*4
 - Select the titles (for DVD) or folders (for MP3/WMA/JPEG)*5.
 - |◀◀ / ▶▶| (reverse skip/forward skip)*6
 - ◀◀ / ▶▶ (reverse search/forward search)*7
- 12 OSD button
 - Displays the on-screen bar.
 - Also functions as ■/TITLE button when pressed with SHIFT button.
 - You can directly select folders (for MP3/WMA/JPEG) or titles (for DVD) using the number buttons (see right column).
- 13 MENU button*2
 - Displays the DVD and VCD*3 disc menu.
- 14 Menu operation buttons*2
 - Cursor (Δ , ∇ , \triangleleft , \triangleright) and ENTER
- 15 RETURN button*2
- 16 DVD/VCD special function buttons
 - DVD/VCD: (audio)
 - DVD: (subtitle), (angle)

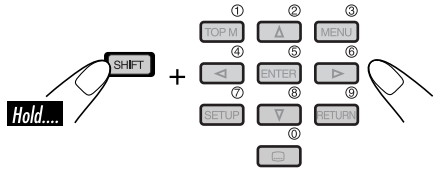
*1 Controllable only if your car receiver which is connected to this monitor is one of the JVC receivers.

*2 These buttons function as the number buttons when pressed with SHIFT button.

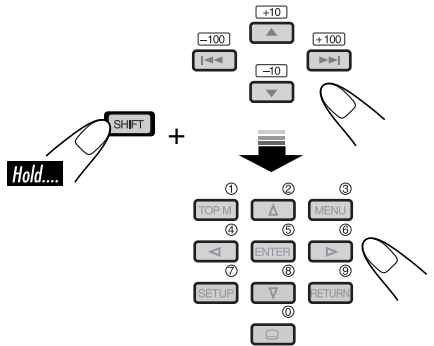
*3 Only when PBC is not in use.

How to select a number

- To select a number from 0 – 9:



- To select a number greater than 9:



- +100/-100 buttons used only for searching MP3/WMA/JPEG tracks number greater than 99.

*4 These buttons do not function as PRESET ▲ / ▼.

*5 These buttons function as the +10/-10 buttons when pressed with SHIFT button.

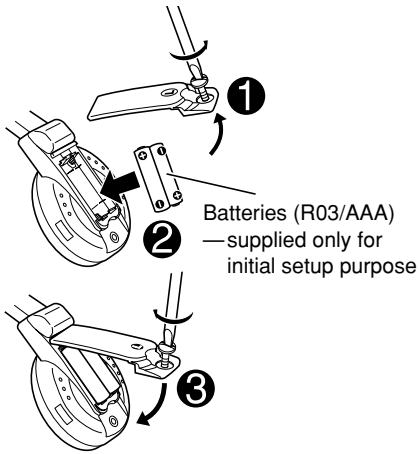
*6 These buttons function as the +100/-100 buttons when pressed with SHIFT button.

*7 Not used for MP3/WMA/JPEG operations.

Headphones — KS-HP2

You can listen to the playback sounds with cordless headphones—KS-HP2.

■ Installing the batteries



CAUTIONS:

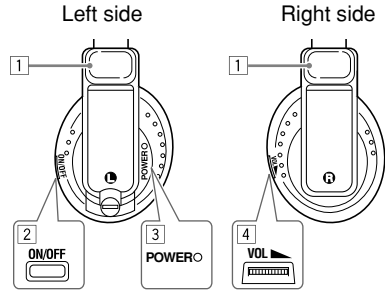
- The supplied batteries are not rechargeable. DO NOT recharge them; otherwise, battery leakage or explosion may result.
- Insert the batteries with the correct polarity “+” and “-” to prevent the battery leakage or explosion.

Before using the cordless headphones:

The headphones give best results when used within about 2 m (6.6 feet) from the transmitter. These headphones need to receive infrared (IR) signals sent from IR transmitters on the monitor. Therefore, if you use the headphones where the signals cannot be received in a straight line of sight, noises may be generated.



Main elements and features



- 1 IR sensors
 - DO NOT cover the IR sensors, as reception will become poor.
- 2 ON/OFF button
 - The power automatically shuts off in the following cases:
 - The headphones are used for about 4 hours.
 - No signal is received for about 4 minutes.
 - You can turn on the power again by pressing the button.
- 3 POWER lamp
- 4 Volume control

Playback sounds are transmitted through IR transmitters to the cordless headphones. When using the headphones, set the monitor menu item “IR” to “ON.” (See page 14.)

WARNING:

DO NOT use the headphones while driving. Shutting out all outside sounds while driving is dangerous and may result in a traffic accident.

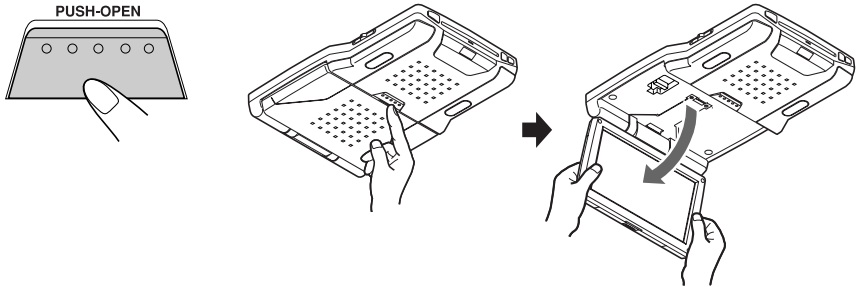
Basic operations

Preparation

Before operating the unit, make sure that all external components are correctly connected and installed.

1 Open the liquid crystal panel.

Press PUSH-OPEN until the liquid crystal panel is unlocked, then open the liquid crystal panel by both hands.



CAUTION:

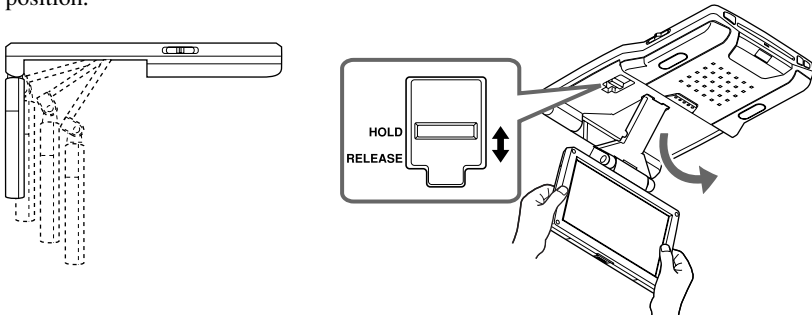
- When not in use, close the liquid crystal panel and store it into the compartment; otherwise, it may obstruct the visibility through the rearview mirror.
- Do not touch the surface of the liquid crystal panel directly.

When closing the liquid crystal panel, store it in the screen compartment until it is locked.

To change the monitor position

You can select a monitor position from the four positions.

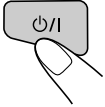
- 1 Slide the arm lock lever to RELEASE, then pull down or push up the monitor.
- 2 Slide the arm lock lever to HOLD, then remove the screen arm to the nearest locking position.



When closing the liquid crystal panel, push up the monitor to the highest position.

To be continued....

2 Turn on the power.

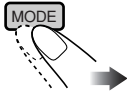


Monitor



Remote control

3 Select the playback source.



Each time you press the button, the playback source changes as follows:



4 Operate the playback source you selected.

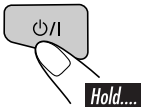
To operate the built-in DVD player, see “Disc operations” on page 18.

To operate the external components, refer to the manuals for the connected components.

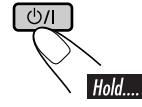
5 Adjust the volume on the car receiver.

- When using the headphones, adjust its volume level.

To turn off the power



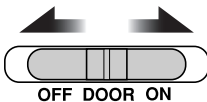
Monitor



Remote control

- When using the headphones, turn off the power after turning off the headphones.

To activate the door sensor



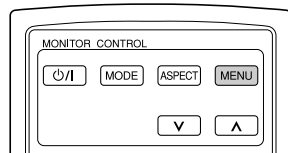
- **OFF:** Turns off the dome lights.
- **DOOR:** Activates the door sensor which turns on the dome lights when a door is open.
- **ON:** Turns on the dome lights.

Using the monitor menu

You can make your own display or sound adjustments using the menu.

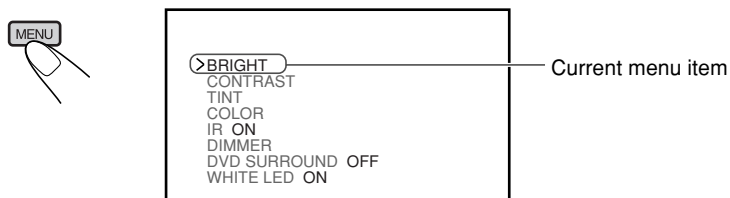
- For the adjustable items, see the next page.

*The Remote controller—RM-RK230 has two MENU buttons.
In this section, using MENU button at MONITOR CONTROL.*



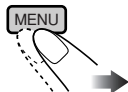
Basic procedure

1 Call up the menu.

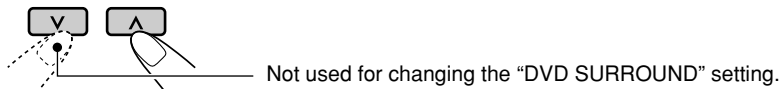


Menu selection goes off if other operations are done or no operation is done for about 5 seconds.

2 Select an item you want to adjust.

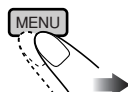


3 Adjust the level of the selected item (or select an appropriate setting for the selected item).



4 Exit from the menu.

Press the button repeatedly until the menu is erased.



Adjustable items on the monitor menu

BRIGHT:	Adjust this if the picture is too bright or too dark. <ul style="list-style-type: none"> Adjustable range: -10 to +11 Initial level: 0 (center)
CONTRAST:	Control the degree of difference between the lightest and darkest parts of the picture. <ul style="list-style-type: none"> Adjustable range: -10 to +11 Initial level: 0 (center)
TINT:	Adjust this if the human skin color is unnatural. <ul style="list-style-type: none"> Adjustable range: -10 to +11 Initial level: 0 (center)
COLOR:	Adjust the color of the picture—lighter or darker. <ul style="list-style-type: none"> Adjustable range: -10 to +11 Initial level: 0 (center)
IR*:	Set to “ON” when you listen to the playback sounds using the cordless headphones. <ul style="list-style-type: none"> Selectable settings: ON, OFF Initial setting: ON
DIMMER:	Adjust the light of the screen and the white LED when you turn on the headlights. <ul style="list-style-type: none"> Adjustable range: -5 to +5 Initial level: 0 (center)
DVD SURROUND:	This function allows you to get a surround effect from your stereo system. When connecting a receiver incompatible with the multi-channel sources, you can enjoy the virtual surround sound with your 2-channel stereo system. If you turn off the monitor, the setting is initialized. <ul style="list-style-type: none"> Selectable settings: OFF, ACTION, DRAMA, THEATER <ul style="list-style-type: none"> ACTION: Suitable for action movies and sports programs. DRAMA: Creates natural and warm sound. Enjoy movies in a relaxed mood. THEATER: Enjoy sound effects like in a major theater. Initial setting: OFF
WHITE LED:	Light on or off the white LED when you turn on the monitor. <ul style="list-style-type: none"> Selectable settings: ON, OFF Initial setting: ON

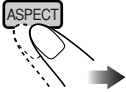
* Turn off the headphones before changing the “IR” setting.

Changing the aspect ratio

You can select an appropriate aspect ratio for the playback video signals.

Basic procedure

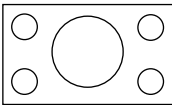
Each time you press the button, aspect ratio change.



Changeable aspect ratio

When incoming 16:9 video signal:

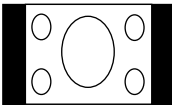
FULL:



Pictures are fully shown on the screen.

- In some cases, the black bars may be shown at the top and bottom sides of the screen.

NORMAL:



Pictures are reduced horizontally.

- The black bars will be shown at the left and right sides of the screen.
- In some cases, the black bars may be shown also at the top and bottom sides of the screen.

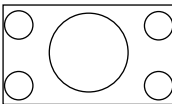
JUST:



The middle of pictures are reduced horizontally, and the left and right side of the picture enlarged horizontally.

- In some cases, the black bars may be shown at the top and bottom sides of the screen.

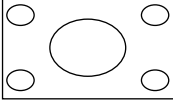
ZOOM:



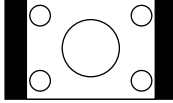
Pictures are enlarged on the screen so that no black bars will be shown on the screen. (The entire picture cannot be shown on the screen.)

To be continued....

When incoming 4:3 video signal:

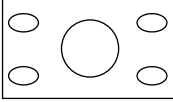
FULL:

Pictures are enlarged horizontally and are fully shown on the screen.

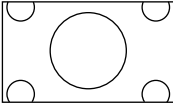
NORMAL:

Pictures are shown at the center of the screen.

- The black bars will be shown at the left and right sides of the screen.

JUST:

Pictures are enlarged horizontally. The extension ratio increases toward the both sides of the screen.

ZOOM:

Pictures are enlarged on the screen so that no black bars will be shown on the screen. (The entire picture cannot be shown on the screen.)

Playable discs

Discs you can play

You can play back the following discs—12 cm (4-3/4") and 8 cm (3-3/16")—on the built-in DVD player:

- **DVD Video:** Recorded in NTSC color system with Region Code "1" (see below).
 - DVD-R/DVD-RW recorded in the DVD Video format can also be played (see page 33).
- **Video CD (VCD)/audio CD**
- **MP3/WMA/JPEG:** Recorded either in CD-R/CD-RW or DVD-R/DVD-RW/DVD-ROM.
 - CD-R/CD-RW: Compliant with ISO 9660 Level 1, ISO 9660 Level 2, Romeo, and Joliet.
 - DVD-R/DVD-RW/DVD-ROM: Compliant with UDF-Bridge Format*1.

On some discs, the actual operations may be different from what is explained in this manual.

Discs cannot be played back

DVD-Audio, DVD-ROM (data), DVD-RAM, DVD-R/DVD-RW recorded in the DVD-VR format, CD-ROM, CD-I (CD-I Ready), Photo CD, etc.

- Playing back these discs will generate noise and damage the speakers.

Note on Region Code:

DVD players and DVD Video discs have their own Region Code numbers. This unit can only play back DVD discs whose Region Code numbers include "1."

Examples:



If you insert a DVD Video disc of an incorrect Region Code

"REGION CODE ERROR!" appears on the screen. The disc will eject automatically.

Caution for DualDisc playback

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

Digital audio formats

The unit can play back the following digital audio formats.

Linear PCM: Uncompressed digital audio, the same format used for CDs and most studio masters.

Dolby Digital *2: Compressed digital audio, developed by Dolby Laboratories, which enables multi-channel encode to create the realistic surround sound.

DTS *3 (Digital Theater Systems):

Compressed digital audio, developed by Digital Theater Systems, Inc., which enables multi-channel like Dolby Digital. As the compression ratio is lower than for Dolby Digital, it provides wider dynamic range and better separation.

MPEG Audio: Another compressed digital audio which also enables multi-channel encode to create the realistic surround sound. However, this System downmix the multi-channel signals into 2 channels (decoded PCM) and play it back.

*1 A hybrid file system used to provide compatibility with ISO 9660 for accessing any type of files on the disc. (UDF stands for Universal Disk Format.)

*2 Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

*3 "DTS" and "DTS 2.0 + Digital Out" are trademarks of Digital Theater Systems, Inc.

"DVD Logo" is a trademark of DVD Format/Logo Licensing Corporation registered in the US, Japan and other countries.

Disc operations

Playing a disc

The disc type is automatically detected, and playback starts automatically (for DVD: automatic start depends on its internal program).

If the current disc is an audio CD, CD Text, MP3/WMA, JPEG, or VCD without PBC, all tracks will be played repeatedly until you change the source or eject the disc.

- If a title list or disc menu appears while playing a DVD or VCD with PBC, see “Disc menu operations” on page 22.

The following marks are used to indicate the playable discs....



DVD Video



Video CD with PBC



Video CD
with/without PBC



Audio CD/
CD Text



MP3/WMA disc



JPEG disc



All discs listed here

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

- For DVD playback, you can change the setup menu setting as you like. (See pages 28 – 30.)
- For DVD/CD playback, using the remote controller is more attractive. You can enjoy more functions.

If “⊘” appears on the monitor when pressing a button, the disc cannot accept an operation you have tried to do.

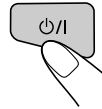
- In some cases, without showing “⊘,” operations will not be accepted.

Starting playback

1 Open the liquid crystal panel.

- You can play a disc even if the monitor is closed.

2 Turn on the power.



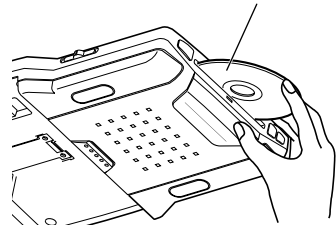
Monitor



Remote control


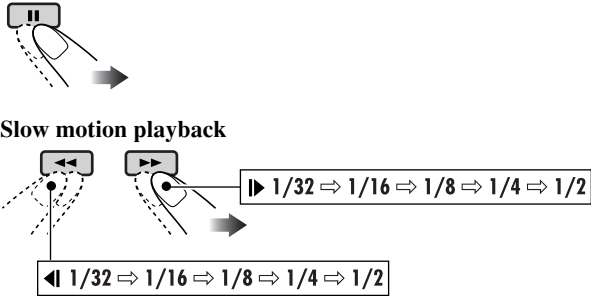
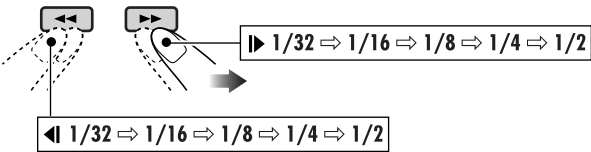



3 Insert a disc into the loading slot.

Playback (shining) side facing down



- When a disc is inserted into the loading slot, the power comes on, then “DISC” is selected as the playback source automatically.

Basic operations

Operations	Next operation
<p>To stop play temporarily</p> 	<p>Playback pauses.</p> <ul style="list-style-type: none"> For JPEG discs: pressing <i>ENTER</i> will also pause the picture on the monitor. <p>A still picture appears.</p> <p>(A) Frame by frame playback</p>  <p>(B) Slow motion playback</p>  <ul style="list-style-type: none"> No sound comes out during Slow Motion Playback. When playing a VCD, Reverse Slow Motion Playback is prohibited. <p>To resume normal play: </p>
<p>To replay the previous scenes—One Touch Replay</p> 	<p>The playback position moves back about 10 seconds before the current position.</p> <ul style="list-style-type: none"> This function works only within the same title. For some DVDs, this function does not work.
<p>To stop playback</p> 	<p>When you start playback again, playback starts from where it has been stopped (Resume play).</p> <p>When you start playback again, playback starts from the beginning of the last playing track.</p>

• During play, on-screen guide icons appear on the monitor for a while (see page 35).

To eject the disc



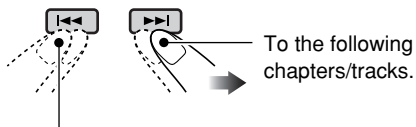
You can eject the disc even when the monitor is turned off.

To be continued....

To go to the next or previous chapters/tracks



- For DVD: During play or pause



To the following chapters/tracks.

To go back to the beginning of the current chapter/track, then the previous chapters/tracks.

To fast-forward or reverse the chapter /track

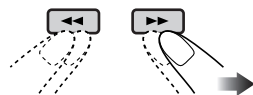


Fast-forwards.

Reverses.

* The search speed changes to x2 ⇔ x10 for all discs (DVD, VCD, CD), but the information shown on the monitor is only for DVD/VCD.

To forward or reverse search the chapter /track



The information shown is only for DVD/VCD:

▶▶ x2 ⇔ x5 ⇔ x10 ⇔ x20 ⇔ x60

◀◀ x2 ⇔ x5 ⇔ x10 ⇔ x20 ⇔ x60

- To resume normal speed



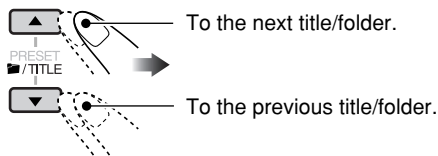
To locate a particular title /chapter / track directly



- For DVD: During play or pause—select a chapter. During stop—select a title.
- For VCD: While PBC (see page 22) is not in use.
- For MP3/WMA/JPEG: Select a track within the same folder.

Select the number corresponding to the item you want (see page 9).

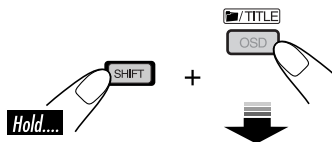
To locate a title /folder



To the next title/folder.

To the previous title/folder.

To locate a particular title / folder



Within 10 seconds, press the number buttons (see page 9).

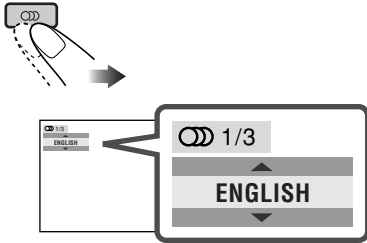
- For MP3/WMA/JPEG discs: To directly select the folders using the number button(s), it is required that folders be assigned 2 digit numbers at the beginning of their folder names—01, 02, 03, and so on.

DVD/VCD/JPEG special functions

Selecting audio languages

For DVD:

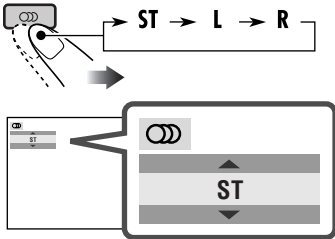
You can select the language to listen to if the disc has multiple audio languages.



Ex.: When the disc has 3 options

For VCD:

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



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

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

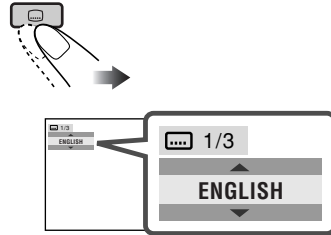
R: To listen to the R (right) audio channel.

Selecting subtitles

You can select the language of the subtitle to be shown on the monitor.



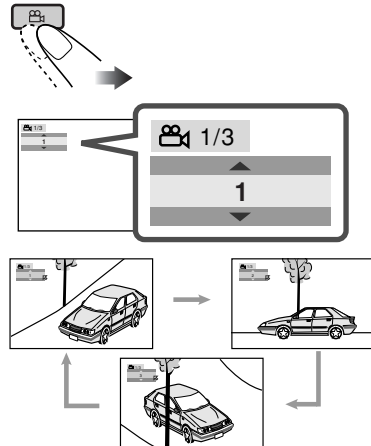
- You can set the initial subtitle language using the setup menu (see page 29).



Ex.: When the disc has 3 options

Selecting multi-angle views

You can view the same scene at different angles if the disc has multi-angle views.



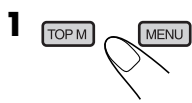
Ex.: When the disc has 3 multi-angle views

- For some DVDs and VCDs, changing the subtitle language, audio language (or audio channel) without using the disc menu is prohibited.

Disc menu operations

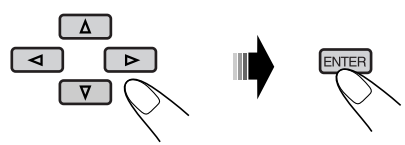
Menu-driven playback is possible while playing back a DVD with menu-driven features or a VCD with the PBC (PlayBack Control).

While playing a DVD



A title list or disc menu will appear on the monitor.

2 Select the item you want on the menu.



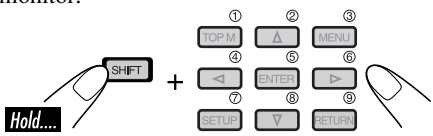
Selected item starts playback.

- On some discs, you can also select items using the corresponding number buttons.

While playing a VCD



- When a list of items is displayed on the monitor.



- To select a number greater than 9, see “How to select a number” on page 9.

To return to the previous menus

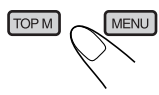


- For some discs, you can also move between the menus by pressing ◀◀ / ▶▶.

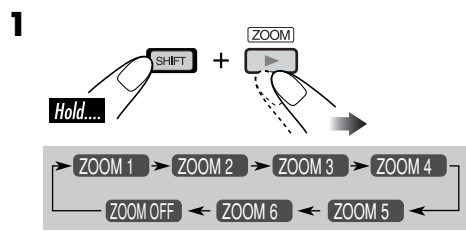
Canceling the PBC playback

-
- Select a track to start normal playback using the number buttons (see page 9).

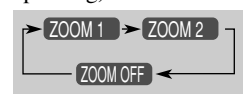
To resume the PBC function



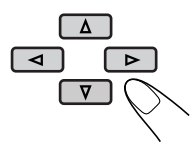
Zoom in



- For JPEG disc (effective only when pausing):



2 Move the zoomed-in portion.



- For JPEG files:
You cannot move the zoomed-in position when the entire picture is displayed on the monitor.

To cancel zoom, select “ZOOM OFF” in step 1.

On-Screen disc operations

About the On-Screen Bar

You can check the disc information and use some functions through the on-screen bar.

- For audio CD, CD Text, and MP3/WMA/JPEG disc you can also use the control screen and list screen (see pages 26 and 27).

On-Screen bars



The figure shows five examples of on-screen bars for different disc formats, each with numbered callouts (1-6) pointing to specific elements:

- DVD-V:** Shows 'DVD-V', 'Digital 2ch', 'T02-C03', 'TOTAL 1:25:58', and playback controls. Callouts 1-4 point to the format, audio info, title/chapter, and total time. Callout 5 points to the playback controls.
- VCD:** Shows 'VCD', 'PBC', 'TRACK 01', 'TIME 00:36', and playback controls. Callouts 1-4 point to the format, PBC, track, and time. Callout 5 points to the playback controls.
- MP3/WMA:** Shows 'FILE', 'REPEAT TRACK', 'TIME 00:00:36', and playback controls. Callouts 1-4 point to the format, repeat, track, and time. Callout 5 points to the playback controls.
- JPEG:** Shows 'FILE', 'REPEAT FOLDER', and playback controls. Callouts 1-6 point to the format, repeat, folder, track, time, and playback controls.
- CD Text/audio CD:** Shows 'CD', 'dts 5.1ch', 'REPEAT TRACK', 'TIME 00:36', and playback controls. Callouts 1-6 point to the format, audio info, repeat, track, time, and playback controls.

* Only for DTS audio CD

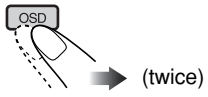
- Disc type
 - Audio signal format type (for DVD and DTS audio CD)
 - PBC (only for VCD)
- Playback information
 - T02-C03** Current title/chapter
 - TRACK 01** Current track
 - TOTAL** Elapsed playing time of the disc
 - T. REM** Remaining disc time (for VCD)/remaining title time (for DVD)
 - TIME** Elapsed playing time of the current chapter/track
 - REM** Remaining time of the current chapter/track
- Playback condition
 - Playback
 - Forward/reverse search
 - Forward/reverse slow-motion
 - Pause
 - Stop
- Operation icons
 - TIME** Time indication
 - Time Search—Enter the elapsed playing time of the current title or of the disc.
 - TITLE** Title Search
 - CHAP** Chapter Search
 - TRACK** Track Search
 - Change the audio language or audio channel.
 - Change the subtitle language.
 - Change the view angle.
 - OFF** Repeat play (for DVD)
 - REPEAT** Repeat play (for other discs)
 - INTRO** Intro play
 - RANDOM** Random play
- Current playback mode

To be continued...

Basic on-screen bar operations

1 Display the on-screen bar.

- For DVD/VCD:

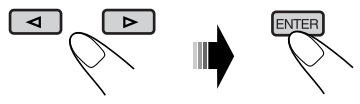


- For other discs:

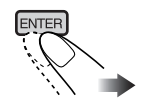


When a JPEG disc is loaded, skip to step 3.

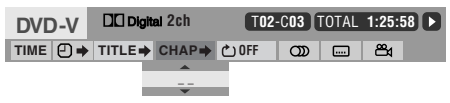
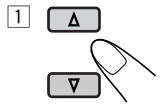
2 Select an item.



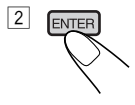
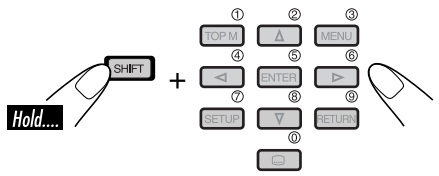
3 Make a selection.



- If pop-up menu appears....



or

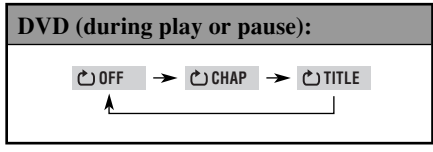


To erase the on-screen bar

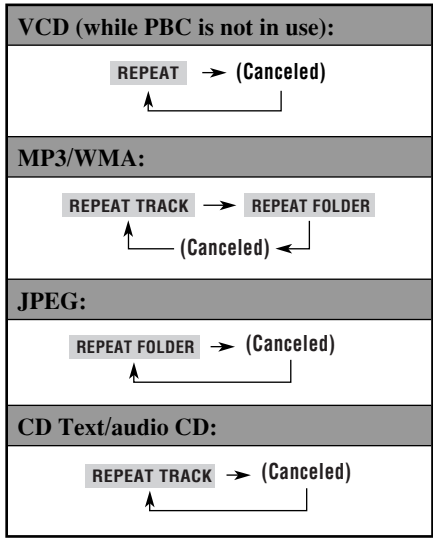


- The on-screen bar for a CD or MP3/WMA/JPEG disc automatically disappears in a few seconds after the last operation.
- The selectable options for Repeat/Intro/Random plays:

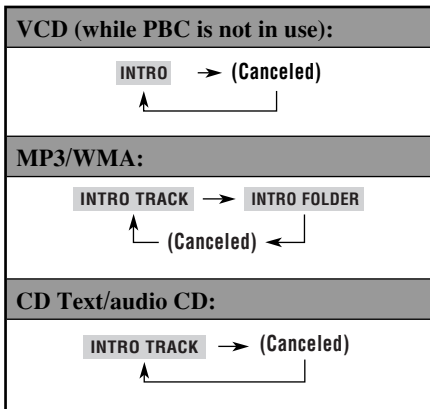
OFF You can repeat the current title or chapter.



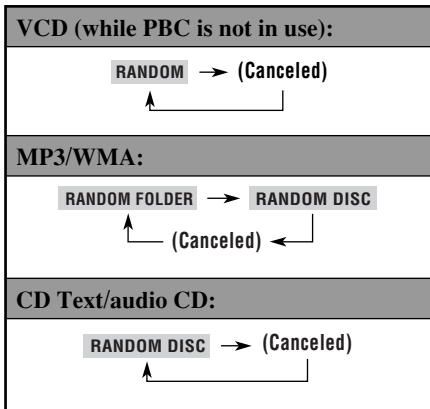
REPEAT You can repeat the current track (except for JPEG) or the tracks in the current folder (only for MP3/WMA/JPEG).



INTRO You can play the first 15 seconds of all tracks in the disc, or in the current folder (only for MP3/WMA).



RANDOM You can randomly play all tracks in the disc, or in the current folder (only for MP3/WMA).



Refer also page 24 for the following operations.

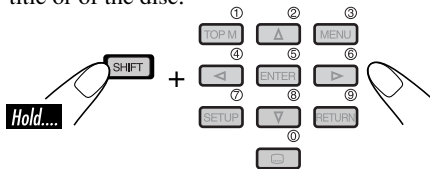
To change the time information

- 1 Select **TIME**.
- 2 Change the time information.



To search for a particular point by playing time

- For VCD: while PBC is not in use.
- 1 Select **⏪**.
 - 2 Enter the elapsed playing time of the current title or of the disc.



- Ex.:
- To enter 1 (hours): 02 (minutes): 00 (seconds), press 1, 0, 2, 0, then 0.
 - To enter 54 (minutes): 00 (seconds), press 0, 5, 4, 0, then 0.

- It is always required to enter the hour digit (even "0" hour), but it is not required to enter trailing zeros (the last two digits in the examples above).
- To correct a misentry, press... **⏪**

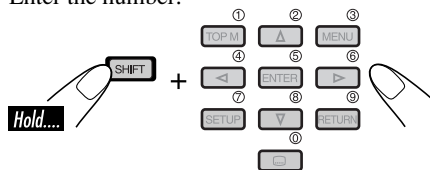
- You can also specify the elapsed playing time by using **△ / ▽ / < / >**.

- 3 Finish the procedure.



To search for a particular title/chapter/track

- 1 Select **TITLE**, **CHAP**, or **TRACK**.
- 2 Enter the number.



- To correct a misentry, press the number button until the correct number is entered.

- 3 Finish the procedure.



Basic control screen operations

You can search for and play the desired items through the control screen.

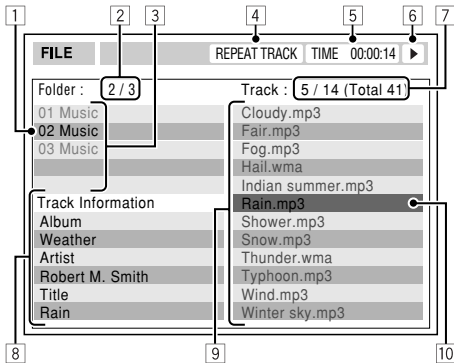
For MP3/WMA/CD Text/audio CD:

The control screen automatically appears on the monitor when you insert a disc.

JPEG:

Press TOP M (menu), MENU, or ■. Playback stops and the control screen appears.

MP3/WMA/JPEG control screen

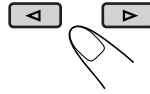


Ex.: Control screen for MP3/WMA

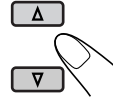
- 1 Current folder
- 2 Current folder number/total folder number
- 3 Folder list
- 4 Selected playback mode
- 5 Elapsed playing time of the current track (only for MP3/WMA)
- 6 Operation mode icon (only for MP3/WMA)
▶ (play), ■ (stop), || (pause), ►► (fast-forward), ◀◀ (reverse)
- 7 Current track number/total number of tracks in the current folder (total number of tracks on the disc)
- 8 Track information (only for MP3/WMA)
- 9 Track list
- 10 Current track (highlighted bar)

To select a folder or track

- 1 Select "Folder" column or "Track" column on the control screen.



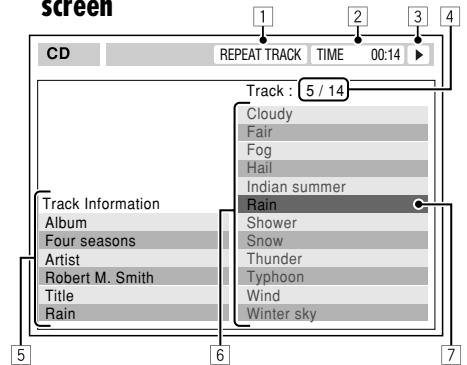
- 2 Select a folder or track.



- If playback does not start, press ▶ or ENTER.

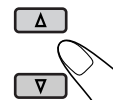
- For JPEG discs: Pressing ENTER will pause the selected picture on the monitor.

CD Text/audio CD control screen



- 1 Selected playback mode
- 2 Elapsed playing time of the current track
- 3 Operation mode icon
▶ (play), ■ (stop), || (pause), ►► (fast-forward), ◀◀ (reverse)
- 4 Current track number/total number of tracks on the disc
- 5 Track information
- 6 Track list
- 7 Current track (highlighted bar)

To select a track



- If playback does not start, press ▶ or ENTER.

List screen operations

You can display the folder list/track list before starting play. On this list, you can confirm the contents and start playing a disc.

Folder/track list screens



Folder list (MP3/WMA/JPEG)

1		2		3	
Folder : 153/240		Track 154/198		Page : 4/6	
fol130	fol140	fol150	fol160		
fol131	fol141	fol151	fol161		
fol132	fol142	fol152	fol162		
fol133	fol143	fol153	fol163		
fol134	fol144	fol154	fol164		
fol135	fol145	fol155	fol165		
fol136	fol146	fol156	fol166		
fol137	fol147	fol157	fol167		
fol138	fol148	fol158	fol168		
fol139	fol149	fol159	fol169		

4

Ex.: Folder list for MP3/WMA

Track list (MP3/WMA/JPEG/CD Text/audio CD)

1		2		3	
Folder : 153/240		Track 154/198		Page : 4/6	
file0131.mp3	file0141.mp3	file0151.wma	file0161.wma		
file0132.mp3	file0142.mp3	file0152.mp3	file0162.mp3		
file0133.wma	file0143.mp3	file0153.wma	file0163.wma		
file0134.mp3	file0144.mp3	file0154.mp3	file0164.mp3		
file0135.mp3	file0145.wma	file0155.mp3	file0165.wma		
file0136.wma	file0146.mp3	file0156.mp3	file0166.wma		
file0137.wma	file0147.wma	file0157.mp3	file0167.wma		
file0138.mp3	file0148.mp3	file0158.wma	file0168.wma		
file0139.mp3	file0149.wma	file0159.wma	file0169.mp3		
file0140.wma	file0150.wma	file0160.wma	file0170.wma		

4

Ex.: Track list for MP3/WMA

- 1 Current folder number/total folder number (only for MP3/WMA/JPEG)
- 2 Current track number/total number of tracks in the current folder (for MP3/WMA/JPEG) or in the disc (for CD Text/audio CD)
- 3 Current page/total number of the pages included in the list
- 4 Current folder/track (highlighted bar)

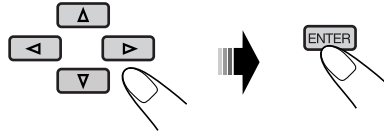
For MP3/WMA/JPEG:

While stop...

1 Display the folder list.

Each time you press the button, the list screen comes on and goes off.

2 Select a folder on the list.

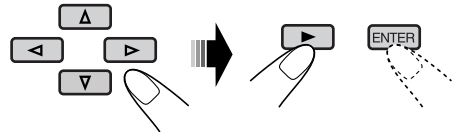


The track list of the selected folder appears.

To go back to the folder list



3 Select a track on the list.



- For JPEG discs: Pressing ENTER will pause the selected picture on the monitor.

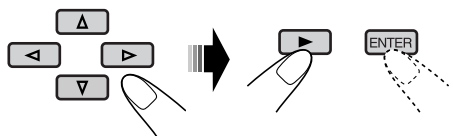
For CD Text/audio CD:

While stop...

1 Display the track list.

Each time you press the button, the list screen comes on and goes off.

2 Select a track on the list.



DVD setup menu

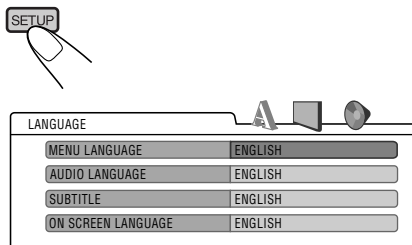
You can store the initial disc playback status.

- While playing, no change can be made on the setup menu.
- When shipped from the factory, the on-screen language is set to English. To change the language, see page 29.

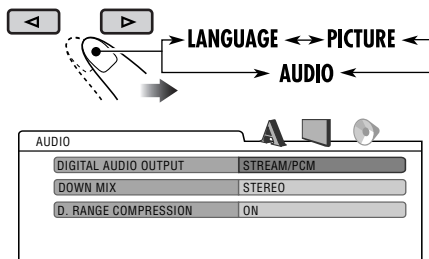
Basic setting procedure

While stop...

1

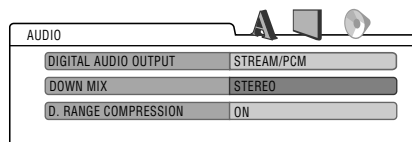
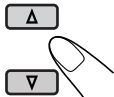


2



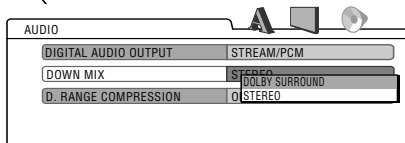
Ex.: When selecting the "AUDIO" menu

3 Select an item you want to set up.

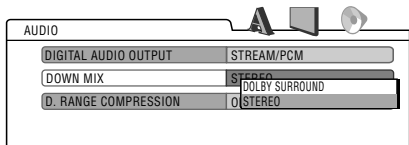
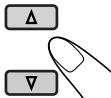


Ex.: When selecting "DOWN MIX"

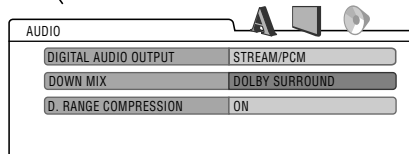
4



5 Select an option.



6



To set other items on the same menu

Repeat steps 3 to 6.

To set other items on other menus

Repeat steps 2 to 6.

To return to the normal screen



A LANGUAGE menu

Item	Contents
MENU LANGUAGE	Select the initial disc menu language.
AUDIO LANGUAGE	Select the initial audio language.
SUBTITLE	Select the initial subtitle language or erase the subtitle (OFF).
ON SCREEN LANGUAGE	Select the language for the setup menu and some indications shown on the monitor.

• For the LANGUAGE settings, see also the language codes list on page 32.

PICTURE menu

Item	Contents
<p>MONITOR TYPE</p> <p>16:9 4:3 LETTER BOX</p> <p>4:3 PAN SCAN</p>	<p>Select the monitor type to watch a wide screen picture on your external monitor.</p> <ul style="list-style-type: none"> • 16:9 : Select this when the aspect ratio of your monitor is 16:9. • 4:3 LETTER BOX : Select this when the aspect ratio of your monitor is 4:3. While viewing a wide screen picture, the black bars appear on the top and the bottom of the screen. • 4:3 PAN SCAN : Select this when the aspect ratio of your monitor is 4:3. While viewing a wide screen picture, the black bars do not appear; however, the left and right edges of the pictures will not be shown on the screen.
<p>OSD POSITION</p> <p>Position 1 Position 2</p>	<p>Select the on-screen bar position on the monitor.</p> <ul style="list-style-type: none"> • 1 : Higher position • 2 : Lower position (Help screen under the DVD setup menu disappears.)
<p>MP3/JPEG</p>	<p>If both MP3/WMA files and JPEG files are recorded on a disc, you can select which files to play.</p> <ul style="list-style-type: none"> • MP3 : Select this for playing MP3/WMA files. • JPEG : Select this for playing JPEG files. <p>Eject the disc and insert it again to make the new setting effective.</p>

To be continued....



AUDIO menu

Item	Contents
DIGITAL AUDIO OUTPUT	<p>Select the signal format to be emitted through the DIGITAL OUT (Optical) terminal. For details, see page 36.</p> <ul style="list-style-type: none"> • PCM ONLY : Select this when connecting an amplifier or a decoder incompatible with Dolby Digital, DTS, MPEG Audio, or connecting to a recording device. • DOLBY DIGITAL/PCM : Select this when connecting an amplifier or a decoder compatible with Dolby Digital. • STREAM/PCM : Select this when connecting an amplifier or a decoder compatible with Dolby Digital, DTS, or MPEG Audio.
DOWN MIX	<p>When playing back a multi-channel DVD disc, this setting affects the signals reproduced through the analog terminals—AV-OUT and cordless headphones (and through the DIGITAL OUT terminal when “PCM ONLY” is selected for “DIGITAL AUDIO OUTPUT”).</p> <ul style="list-style-type: none"> • DOLBY SURROUND : Select this when you want to enjoy multi-channel surround audio by connecting an amplifier compatible with Dolby Surround to this monitor. • STEREO : Normally select this.
D. (Dynamic) RANGE COMPRESSION	<p>You can enjoy a powerful sound at low or middle volume levels while playing a Dolby Digital software.</p> <ul style="list-style-type: none"> • AUTO : Select this to apply the effect to multi-channel encoded software (excluding 1-channel and 2-channel software). • ON : Select this to always use this function.

■ To prevent damage to the exterior

- Do not apply pesticides, benzene, thinner or other volatile substances to the monitor. The cabinet surface primarily consists of plastic materials.
- Do not wipe with benzene, thinner or similar substances because this will result in discoloration or removal of the paint.
- When a cloth with a cleansing chemical is used, follow the caution points.
 - Do not leave the unit in contact with rubber or vinyl products for long periods of time.
 - Do not use cleansers which have polishing granules because this could damage the cabinet.

■ Clean off dirt by wiping lightly with a soft cloth

When the cabinet is very dirty, wipe with a well-wrung cloth dipped in a kitchen cleanser (neutral) thinned by water and then go over the same surface with a dry cloth. (Since there is the possibility of water drops getting inside of the unit, do not directly apply cleanser to the surface.)

■ Moisture condensation

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

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

■ How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

Center holder



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

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

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

■ To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



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

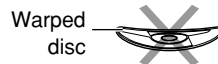
■ To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.



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

Do not use the following discs:



Warped disc



Sticker

Sticker residue



Disc

Stick-on label

Language codes

Code	Language	Code	Language	Code	Language
AA	Afar	IK	Inupiak	RN	Kirundi
AB	Abkhazian	IN	Indonesian	RO	Rumanian
AF	Afrikaans	IS	Icelandic	RW	Kinyarwanda
AM	Ameharic	IW	Hebrew	SA	Sanskrit
AR	Arabic	JI	Yiddish	SD	Sindhi
AS	Assamese	JW	Javanese	SG	Sangho
AY	Aymara	KA	Georgian	SH	Serbo-Croatian
AZ	Azerbaijani	KK	Kazakh	SI	Singhalese
BA	Bashkir	KL	Greenlandic	SK	Slovak
BE	Byelorussian	KM	Cambodian	SL	Slovenian
BG	Bulgarian	KN	Kannada	SM	Samoan
BH	Bihari	KO	Korean (KOR)	SN	Shona
BI	Bislama	KS	Kashmiri	SO	Somali
BN	Bengali, Bangla	KU	Kurdish	SQ	Albanian
BO	Tibetan	KY	Kirghiz	SR	Serbian
BR	Breton	LA	Latin	SS	Siswati
CA	Catalan	LN	Lingala	ST	Sesotho
CO	Corsican	LO	Laothian	SU	Sundanese
CS	Czech	LT	Lithuanian	SW	Swahili
CY	Welsh	LV	Latvian, Lettish	TA	Tamil
DZ	Bhutani	MG	Malagasy	TE	Telugu
EL	Greek	MI	Maori	TG	Tajik
EO	Esperanto	MK	Macedonian	TH	Thai
ET	Estonian	ML	Malayalam	TI	Tigrinya
EU	Basque	MN	Mongolian	TK	Turkmen
FA	Persian	MO	Moldavian	TL	Tagalog
FI	Finnish	MR	Marathi	TN	Setswana
FJ	Fiji	MS	Malay (MAY)	TO	Tonga
FO	Faroese	MT	Maltese	TR	Turkish
FY	Frisian	MY	Burmese	TS	Tsonga
GA	Irish	NA	Nauru	TT	Tatar
GD	Scots Gaelic	NE	Nepali	TW	Twi
GL	Galician	NO	Norwegian	UK	Ukrainian
GN	Guarani	OC	Occitan	UR	Urdu
GU	Gujarati	OM	(Afan) Oromo	UZ	Uzbek
HA	Hausa	OR	Oriya	VI	Vietnamese
HI	Hindi	PA	Panjabi	VO	Volapuk
HR	Croatian	PL	Polish	WO	Wolof
HU	Hungarian	PS	Pashto, Pushto	XH	Xhosa
HY	Armenian	PT	Portuguese	YO	Yoruba
IA	Interlingua	QU	Quechua	ZU	Zulu
IE	Interlingue	RM	Rhaeto-Romance		

More about this monitor

Basic operations

Turning off the power

- If you turn off the power while listening to a disc, disc play will start automatically, next time you turn on the power.

Disc operations

General

- In this manual, words “track” and “file” are interchangeably used when referring to MP3/WMA/JPEG files and their file names.
- This unit can also playback 8 cm (3-3/16”) discs.
- This unit can only playback audio CD (CD-DA) files if different type of files are recorded in the same disc.
 - The first track will be skipped if a different type of file is detected first.
- When a disc has been loaded, selecting “DISC” for the playback source starts disc play.

Starting playback

- When a disc is inserted upside down, “NO DISC” appears on the screen, then the disc will automatically eject.
- You can play a disc even if the monitor is closed.

Basic operations

- No sound comes out during slow motion playback. When playing a VCD, reverse slow motion playback is prohibited.
- One Touch Replay works only within the same title. (For some DVDs, this function does not work.)
- When playing a DVD/VCD, no sound comes out during Search.
- Reverse search stops automatically when it reaches the beginning of the disc. Playback resumes at normal speed.

DVD/VCD/JPEG special functions

- For some DVDs and VCDs, changing the subtitle language, audio language (or audio channel) without using the disc menu is prohibited.
- While zoomed in, the picture may look coarse.

Playing a DVD-R/DVD-RW or CD-R/CD-RW

- Use only “finalized” discs.
- This unit can play back only the files of the same type which is first detected if a disc includes both audio CD (CD-DA) files and MP3/WMA/JPEG files.
- This unit can play back either MP3/WMA files or JPEG files if a disc includes both kind of files. Set the playback file type on DVD setup menu (page 29) before playing back a disc containing both kind of files.
- Only for CD-R/CD-RW: This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some DVD-R/DVD-RW or CD-R/CD-RW may not play back on this unit because of their disc characteristics, and for the following causes:
 - Discs are dirty or scratched.
 - Moisture condensation occurs on the lens inside the unit.
 - The pickup lens inside the unit is dirty.
 - CD-R/CD-RW on which the files are written with “Packet Write” method.
 - DVD-R/DVD-RW which are not written in UDF-Bridge Format (eg. UDF format or ISO format).
 - There are improper recording conditions (missing data, etc.) or media conditions (stain, scratch, warp, etc.).
- DVD-RW/CD-RW may require a longer readout time since the reflectance of DVD-RW/CD-RW is lower than that of regular discs.

To be continued....

- Do not use the following DVD-R/DVD-RW or CD-R/CD-RW:
 - Discs with stickers, labels, or protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.
 Using these discs under high temperatures or high humidities may cause malfunctions or damages to discs.
- This unit can play back the files recorded in VBR (variable bit rate).
The files recorded in VBR have a discrepancy in elapsed time display, and do not show the actual elapsed time. Especially, after performing the search function, this difference becomes noticeable.
- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded in an unappropriated format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded with lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA files copy-protected with DRM.
 - WMA files recorded with MBR (Multiple Bit Rate) format.
 - Files which have the data such as WAVE, ATRAC3, etc.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower) recorded in either CD-R/CD-RW or in DVD-R/DVD-RW.
- This unit can show the names of albums, artists (performer), and ID3 Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate: MP3: 32 kbps — 320 kbps
WMA: 32 kbps — 192 kbps
 - Sampling frequency:
 - 48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
 - 24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
 - 48 kHz, 44.1 kHz, 32 kHz (for WMA)
 - Disc format: ISO 9660 Level 1/Level 2, Romeo, Joliet, Windows long file name
- The maximum number of characters for file/folder names vary among the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
 - ISO 9660 Level 1: up to 12 characters
 - ISO 9660 Level 2: up to 31 characters
 - Romeo: up to 128 characters
 - Joliet: up to 64 characters
 - Windows long file name: up to 128 characters
- This unit can recognize the total of 1100 files, 250 folders (maximum of 999 files per folder).

Playing a JPEG disc

- This unit can play back JPEG files with the extension code <.jpg> (regardless of the letter case—upper/lower) recorded in either CD-R/CD-RW or in DVD-R/DVD-RW.
- It is recommended that you record a file at 640 x 480 resolution. (If a file has been recorded at a resolution of more than 640 x 480, it will take a long time to be shown.)
- This System can play only baseline JPEG files. Progressive JPEG files or lossless JPEG files cannot be played.
 - Baseline JPEG format: Used for digital cameras, web, etc.
 - Progressive JPEG format: Used for web.
 - Lossless JPEG format: An old type and rarely used now.
- If progressive or lossless JPEG files are played back, a black screen appears. In this case, stop playback and select a baseline JPEG file. Note that it may take a long time to select another file.

- Even if you try to pause the current picture, it may be skipped, then the next picture will pause.
- This unit can recognize the total of 1100 files, 250 folders (maximum of 999 files per folder).

Changing the source

- If you change the source, playback also stops (without ejecting the disc).
Next time you select “DISC” for the playback source, disc play starts automatically.

Ejecting a disc










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

DVD setup menu

- When the language you have selected is not recorded on a disc, the original language is automatically used as the initial language. In addition, for some discs, the initial languages settings will not work as you set due to their internal disc programming.
- While playing (or pausing), you cannot change these languages.
After you change any of these language settings, eject the disc and insert it (or another disc) again so that your setting takes effect.
- When you select “16:9” for a picture whose aspect ratio is 4:3, the picture slightly changes due to the process for converting the picture width.
- Even if “4:3 PAN SCAN” is selected, the screen size may become “4:3 LETTER BOX” with some DVDs. This depends on how they are recorded.

On-screen guide icons

During play, the following guide icons may appear for a while on the monitor.

-  : Appears at the beginning of a scene containing multi-audio languages (for DVD only).
-  : Appears at the beginning of a scene containing multi-subtitle languages (for DVD only).
-  : Appears at the beginning of a scene containing multi-angle views (for DVD only).
-  : Play
-  : Pause
-  : Forward slow motion playback (for DVD and VCD only)
-  : Reverse slow motion playback (for DVD only)
-  : Forward search
-  : Reverse search

About sounds reproduced through the terminals

- Through the analog terminals (AV-OUT/cordless headphones): 2-channel signal is emitted. When playing a multi-channel encoded disc, multi-channel signals are downmixed. (AUDIO—DOWN MIX: see page 30.)
- Through DIGITAL OUT (optical):
 Digital signals (Linear PCM, Dolby Digital, DTS, MPEG Audio) are emitted through this terminal. (For more details, see table below.)
 To reproduce multi-channel sounds such as Dolby Digital, DTS, and MPEG Audio, connect an amplifier or a decoder compatible with these multi-channel sources to this terminal, and set “DIGITAL AUDIO OUTPUT” correctly. (See page 30.)

Output signals through the DIGITAL OUT terminal

Output signals are different depending on the “DIGITAL AUDIO OUTPUT” setting on the setup menu (see page 30).

DIGITAL AUDIO OUTPUT Playback Disc		Output Signals		
		STREAM/PCM	DOLBY DIGITAL/PCM	PCM ONLY
DVD	48 kHz, 16/20/24 bits Linear PCM	48 kHz, 16 bits stereo Linear PCM		
	96 kHz, Linear PCM			
	with DTS	DTS bitstream	48 kHz, 16 bits stereo Linear PCM	
	with Dolby Digital	Dolby Digital bitstream		48 kHz, 16 bits stereo Linear PCM
	with MPEG Audio	MPEG bitstream	48 kHz, 16 bits Linear PCM	
Audio CD, Video CD		44.1 kHz, 16 bits stereo Linear PCM		
Audio CD with DTS		DTS bitstream	44.1 kHz, 16 bits stereo Linear PCM	
MP3/WMA		32/44.1/48 kHz, 16 bits Linear PCM		

Troubleshooting

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

	Symptoms	Causes	Remedies
General	<ul style="list-style-type: none"> Colored spots (red, blue and green) appear on the screen. 	This is a characteristic of liquid crystal panels and is not a malfunction.	See "Note" on page 6.
	<ul style="list-style-type: none"> No picture appears and sound is not heard. 	The cord is not connected correctly to the external component.	Connect the cord correctly.
		Correct input mode is not selected.	Select the correct input mode.
	<ul style="list-style-type: none"> The unit does not work at all. 	The built-in microcomputer may have functioned incorrectly due to noise, etc.	Reset the unit (see page 4).
	<ul style="list-style-type: none"> Remote controller does not work. Cordless headphones do not work. 	The battery has lost its charge.	Install a new battery.
		The sensor is exposed to strong light.	Do not expose the sensor to strong light.
<ul style="list-style-type: none"> Howling occurs from the speakers or the headphones. 	It may be caused by a camcorder connected to the monitor.	Camcorder is now in recording mode. Deactivate the recording mode.	
Disc playback	<ul style="list-style-type: none"> "NO DISC" appears on the screen. 	Disc is inserted upside down.	Insert the disc correctly.
	<ul style="list-style-type: none"> CD-R/CD-RW or DVD-R/DVD-RW cannot be played back. Tracks on the CD-R/CD-RW or DVD-R/DVD-RW cannot be skipped. 	CD-R/CD-RW or DVD-R/DVD-RW is not finalized.	<ul style="list-style-type: none"> Insert a finalized CD-R/CD-RW or DVD-R/DVD-RW. Finalize the CD-R/CD-RW or DVD-R/DVD-RW with the component which you used for recording.
			<ul style="list-style-type: none"> The left and right edges of the picture are missing on the screen.

	Symptoms	Causes	Remedies
Disc playback	<ul style="list-style-type: none"> • Sound and picture are sometimes interrupted or distorted. 	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.
MP3/WMA/JPEG playback	<ul style="list-style-type: none"> • Disc cannot be played back. 	No MP3/WMA/JPEG tracks are recorded on the disc.	Change the disc.
		MP3/WMA/JPEG tracks do not have the extension code <.mp3>, <.wma>, or <.jpg> in their file names.	Add the extension code <.mp3>, <.wma>, or <.jpg> to their file names.
		MP3/WMA/JPEG tracks are not recorded in a compliant format.	Change the disc. Record MP3/WMA/JPEG tracks using a compliant application (see page 17).
		MP3/WMA/JPEG tracks are recorded in DVD+R/ DVD+RW media.	Change the disc. Record MP3/WMA/JPEG tracks using DVD-R/DVD-RW media.
	<ul style="list-style-type: none"> • Noise is generated. 	The track played back is not an MP3/WMA file (although it has the extension code <.mp3> or <.wma>).	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	<ul style="list-style-type: none"> • A longer readout time is required. 	Readout time varies due to the complexity of the folder/ file configuration.	Do not use too many hierarchies and folders.
	<ul style="list-style-type: none"> • Tracks 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 tracks are recorded on the disc.	_____	

Specifications

WIDESCREEN MONITOR

Screen:

9 inch liquid crystal panel

Number of pixel:

336 960 pixels

(480 vertical × 234 horizontal × 3)

Drive method:

TFT (Thin Film Transistor) active matrix format

Cordless audio:

Infrared audio transmitter

L-channel: 2.3 MHz

R-channel: 2.8 MHz

Effective listening angle: 30°

Effective range: 2 m (6.6 ft)

Color system: NTSC

Input:

Video: RCA pin × 2 circuits

1 V(p-p), 75 Ω

Audio: RCA pin × 2 circuits

1.5 V(rms)

Output:

Video: RCA pin × 1 circuit

1 V(p-p), 75 Ω

Audio: RCA pin × 1 circuit

1.5 V(rms)

DIGITAL OUT: Optical

DVD/CD PLAYER SECTION

Signal detection system: Non-contact optical pickup (semiconductor laser)

Number of channels: 2 channels (stereo)

Frequency response:

DVD, fs=48 kHz/96 kHz: 16 Hz to 22 000 Hz

VCD, CD: 16 Hz to 20 000 Hz

Dynamic range: 93 dB

Signal-to-noise ratio: 95 dB

Wow and flutter: Less than measurable limit

MP3 (MPEG Audio Layer 3):

Max. Bit Rate: 320 kbps

WMA (Windows Media® Audio):

Max. Bit Rate: 192 kbps

GENERAL

Power requirement:

Operating voltage:

DC 14.4 V (11 V to 16 V allowance)

Grounding system: Negative ground

Allowable operating temperature:

0°C to +40°C (32°F to 104°F)

Allowable storage temperature:

-20°C to +80°C (-4°F to 176°F)

Dimensions (W × H × D):

Installation size (approx.):

215 mm × 49 mm × 374 mm

(8-1/2" × 1-15/16" × 14-3/4")

Mass (approx.):

2.9 kg (6.4 lbs) (excluding accessories)

CORDLESS HEADPHONES

Type: Open-air type

Driver unit:

30 mm Mylarcone dynamic speaker

Impedance: 16 Ω

Frequency response: 20 Hz to 20 000 Hz

Infrared wavelength: 850 nm ± 50 nm

Power requirements:

DC 3 V (2.4 V to 3.3 V allowance)

(R03/AAA battery × 2)

Mass (approx.):

170 g (0.38 lbs) (except batteries)

Allowable operating temperature:

-30°C to +65°C (-22°F to 149°F)

Design and specifications are subject to change without notice.

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



Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

Still having trouble??

USA ONLY

Call 1-800-252-5722

<http://www.jvc.com>

We can help you!

JVC



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0305MNMMDWJEIN

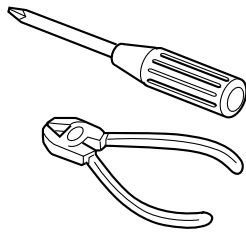
JVC KV-MRD900/KV-MR9010

Installation/Connection Manual

Manual de instalación/conexión

Manuel d'installation/raccordement

LVT1340-002A
[J]



0305MNMMDWJEIN
EN, SP, FR

ENGLISH

The illustrations of the widescreen monitor used in this manual is of KV-MRD900, unless specified otherwise.

WARNING

Installation requires some special knowledge. Do not install the monitor yourself. Consult a dealer having special knowledge of this kind for safe and reliable installation.

- **DO NOT INSTALL THE MONITOR IN A LOCATION WHICH OBSTRUCTS DRIVING, VISIBILITY, SAFETY DEVICE FUNCTION SUCH AS AIR BAGS OR WHICH IS PROHIBITED BY APPLICABLE LAWS AND REGULATIONS.** If the monitor is installed in a location which obstructs forward visibility or operation of the air bag or other safety equipment or which interferes with operation of the vehicle, it may cause an accident.
- **NEVER USE BOLTS OR NUTS FROM THE VEHICLE'S SAFETY DEVICES FOR INSTALLATION.** If bolts or nuts from the steering wheel, brakes or other safety devices are used for installation of the monitor, it may cause an accident.
- **ATTACH THE WIRES CORRECTLY.** If the wiring is not correctly performed, it may cause a fire or an accident. In particular, be sure to run and secure the lead wire so that it does not get tangled with a screw or the moving portion of a seat rail.
- **USE WITH DC 12 V NEGATIVE GROUND VEHICLES.** This monitor is only for use in a DC 12 V negative ground vehicle. It cannot be used in large trucks or diesel vehicles which are DC 24 V vehicles. If it is used in the wrong type of vehicle, it may cause a fire or accident.
- **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.
- **Avoid installing the monitor in the following places**
 - Where it would hinder your safe driving.
 - Where it would be exposed to direct sunlight or heat directly from the heater or placed in an extremely hot place.
 - Where it would be subject to rain, water splashes or excessive humidity.
 - Where it would be subject to dust.
 - Where it would be positioned on an unstable place.
 - Where it could damage the car's fittings.
 - Where proper ventilation would not be maintained.

CAUTION

Since there may be legal regulations defining the permissible installation locations for the monitor which differ by country or by state, be sure to install the color monitor in a location complying with any such laws.

ESPAÑOL

A menos que se especifique de otro modo, las ilustraciones del monitor de pantalla ancha utilizadas en este manual son del KV-MRD900.

ADVERTENCIA

La instalación requiere cierto conocimiento especial. No instale el sistema del monitor por sí mismo. Para una instalación segura y confiable, consulte con un concesionario que tenga conocimientos especiales en esta área.

- **NO INSTALE EL MONITOR EN UN LUGAR QUE IMPIDA EL MANEJO, LA VISIBILIDAD, EL FUNCIONAMIENTO DE DISPOSITIVOS DE SEGURIDAD COMO POR EJEMPLO BOLSAS DE AIRE, O DONDE LO PROHÍBAN LAS LEYES O REGLAMENTOS LOCALES.** Si el monitor se instala en un lugar que obstruye la visibilidad hacia adelante o la operación de una bolsa de aire u otro equipo de seguridad, o que interfiere con la operación del vehículo, cerca de la palanca de cambios o pedal del freno por ejemplo, podrá causarse un accidente.
- **NUNCA UTILICE PERNOS O TUERCAS DE LOS DISPOSITIVOS DE SEGURIDAD DEL VEHÍCULO PARA HACER LA INSTALACIÓN.** Si los pernos o tuercas del volante, frenos u otros dispositivos de seguridad se utilizan para instalar el monitor podrá causarse un accidente.
- **REALICE EL CABLEADO CORRECTAMENTE.** Si no se hace bien el cableado puede producirse un incendio o un accidente. En particular, asegúrese de instalar el cable conductor para que éste no quede enredado en un tornillo ni en la parte móvil del raíl del asiento.
- **UTILICE EL MONITOR EN VEHÍCULOS DE 12 V CC CON PUESTA A TIERRA NEGATIVA.** Este monitor ha sido diseñado para ser utilizado solamente en vehículos de 12 V CC con puesta a tierra negativa. No puede utilizarse en camiones grandes ni vehículos diesel de 24 V CC. Si se utiliza en el tipo equivocado de vehículo se puede causar un incendio o accidente.
- **Para evitar cortocircuitos, se recomienda desconectar el terminal negativo de la batería y realizar todas las conexiones eléctricas antes de instalar la unidad.** Si tiene dudas sobre cómo realizar la instalación correctamente, déjela en manos de un técnico cualificado.
- **Evite instalar el monitor en los siguientes lugares**
 - Donde pueda constituir un obstáculo para la conducción.
 - Donde pueda quedar expuesto a la luz solar directa o al calor directo de un calefactor, o en un lugar muy caliente.
 - Donde pueda mojarse debido a la lluvia, etc., o en un lugar excesivamente húmedo.
 - En un lugar polvoriento.
 - En un sitio inestable.
 - Donde pueda producir daños en los herrajes del automóvil.
 - Donde no se pueda mantener una ventilación adecuada.

PRECAUCIÓN

Puesto que pueden haber normas legales que definen los lugares de instalación permisibles para el monitor, que difieren según los países o estados, asegúrese de instalar el monitor color en un sitio que cumpla con los requisitos establecidos por tales leyes.

FRANÇAIS

Les illustrations du moniteur à écran large utilisées dans ce manuel sont du KV-MRD900, sauf spécification contraire.

AVERTISSEMENT

L'installation nécessite certaines connaissances spéciales. N'installez pas le moniteur vous-même. Consultez un revendeur possédant les connaissances spéciales nécessaires pour une installation correcte et sûre.

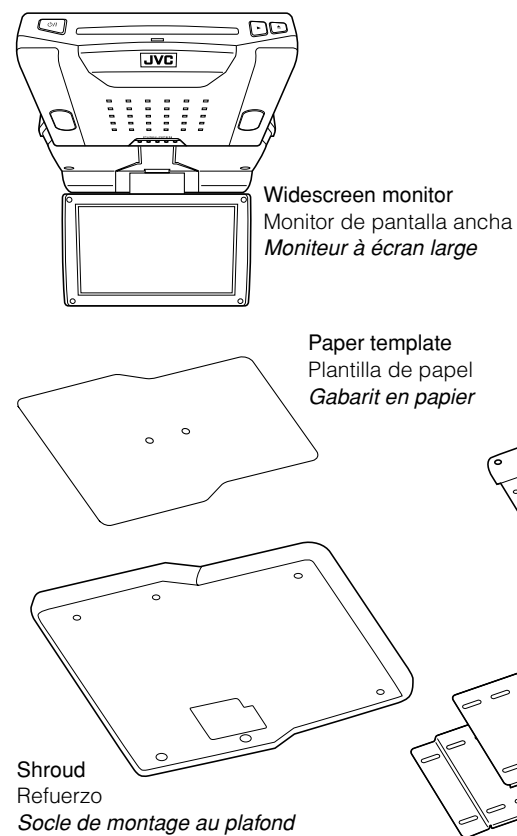
- **N'INSTALLEZ PAS LE MONITEUR DANS UN ENDROIT OÙ IL PEUT GÊNER LA VISIBILITÉ DU CONDUCTEUR OU LE FONCTIONNEMENT D'UN DISPOSITIF DE SÉCURITÉ TEL QUE LES COUSSINS GONFLABLES, OU DANS UN ENDROIT INTERDIT PAR LES LOIS ET RÈGLEMENTS EN PLACE.** Si le moniteur était installé à un emplacement gênant la visibilité avant, ou le déploiement du sac à air, et autres dispositifs de sécurité, ou à un emplacement gênant pour la conduite du véhicule, comme près du levier des vitesses ou de la pédale du frein, cela risquerait de provoquer des accidents.
- **NE JAMAIS UTILISER POUR L'INSTALLATION DES BOULONS OU DES ÉCROUS PROVENANT DES DISPOSITIFS DE SÉCURITÉ DU VÉHICULE.** Si l'on utilisait pour l'utilisation du moniteur des boulons et des écrous cannibalisés du volant, des freins ou autres dispositifs de sécurité, cela risquerait de provoquer des accidents.
- **ATTACHER LES CORDONS CORRECTEMENT.** Si le câblage n'est pas exécuté correctement, cela risque de provoquer un incendie ou autre accident. Veiller, en particulier, à tirer et attacher les fils en sorte qu'ils ne s'accrochent pas à une vis ou ne se coincent dans les parties mobiles des rails des sièges.
- **USAGE SUR LES VÉHICULES DE 12 V CC AVEC NÉGATIF À LA MASSE.** Ce moniteur ne peut être utilisé que sur les véhicules de 12 V CC avec négatif à la masse. Il ne peut pas être utilisé sur les gros camions ou les véhicules diesel de 24 V CC. S'il était utilisé sur un type de véhicule inadéquat cela risquerait de provoquer un incendie ou autres accidents.
- **Pour éviter les courts-circuits, nous recommandons que vous déconnectiez la borne négative de la batterie et réalisez toutes les connexions électriques avant d'installer l'appareil.** Si vous n'êtes pas sûr de savoir comment installer cet appareil correctement, faites-le installer par un technicien qualifié.
- **Évitez d'installer le moniteur dans les endroits suivants**
 - Où il peut gêner la conduite de la voiture.
 - Où il est exposé à la lumière directe du soleil, à la chaleur directe du chauffage ou placé dans un endroit très chaud.
 - Où il est sujet à la pluie, aux éclaboussures ou à une humidité excessive.
 - Où il est sujet à la poussière.
 - Où il est positionné dans un endroit instable.
 - Où il peut endommager les accessoires de la voiture.
 - Où une ventilation correcte ne peut pas être maintenue.

ATTENTION

Puisqu'il peut y avoir des réglementations définissant les emplacements d'installation autorisés pour un moniteur et que celles-ci peuvent varier d'un pays ou d'une région à l'autre, assurez-vous d'installer le moniteur couleur dans un endroit conforme à ces lois.

Parts list for installation and connection

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



Cordless headphones (supplied only with KV-MRD900)
Auriculares inalámbricos (suministrados solamente con KV-MRD900)
Casque d'écoute sans fil (fourni uniquement avec le KV-MRD900)

KS-HP2

Batteries
Pilas
Piles

R03/AAA

Remote controller
Control remote
Télécommande

Battery
Pila
Pile

CR2025

Spacers: silver-9 mm (3/8"): x 2
Espaciadores: plateado-9 mm (3/8 pulgada): x 2
Intercalaire argent-9 mm (3/8 po.): x 2

Spacers: black-7 mm (5/16"): x 4
Espaciadores: negro-7 mm (5/16 pulgada): x 4
Intercalaire noire-7 mm (5/16 po.): x 4

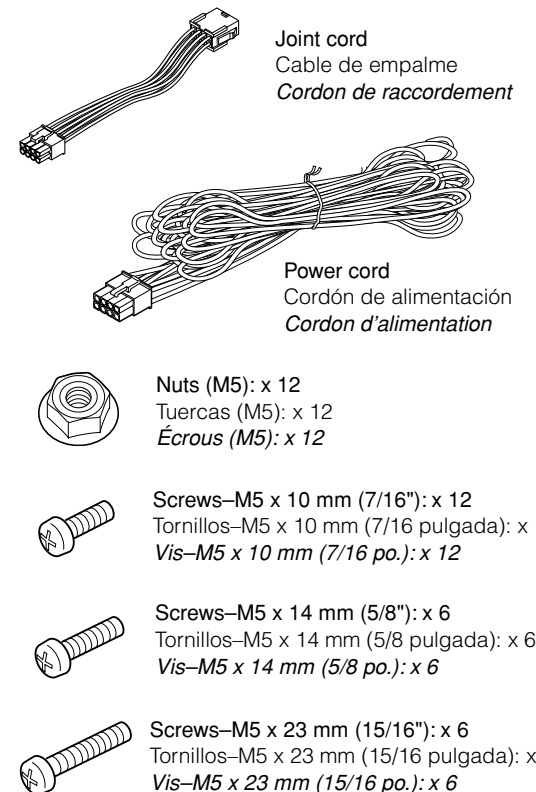
Flat washer-ø 5 mm (1/4"): x 12
Arandela plana-ø 5 mm (1/4 pulgada): x 12
Rondelle plate-ø 5 mm (1/4 po.): x 12

Lista de piezas para instalación y conexión

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

Liste des pièces pour l'installation et raccordement

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



Joint cord
Cable de empalme
Cordon de raccordement

Power cord
Cordón de alimentación
Cordon d'alimentation

Nuts (M5): x 12
Tuercas (M5): x 12
Écrous (M5): x 12

Screws-M5 x 10 mm (7/16"): x 12
Tornillos-M5 x 10 mm (7/16 pulgada): x 12
Vis-M5 x 10 mm (7/16 po.): x 12

Screws-M5 x 14 mm (5/8"): x 6
Tornillos-M5 x 14 mm (5/8 pulgada): x 6
Vis-M5 x 14 mm (5/8 po.): x 6

Screws-M5 x 23 mm (15/16"): x 6
Tornillos-M5 x 23 mm (15/16 pulgada): x 6
Vis-M5 x 23 mm (15/16 po.): x 6

INSTALLATION

• 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.

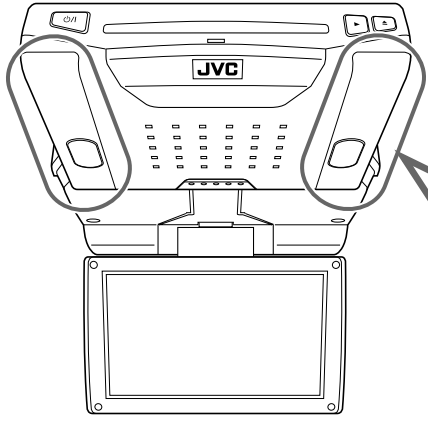
INSTALACIÓN

• La siguiente ilustración muestra una instalación típica. Sin embargo usted deberá efectuar los ajustes correspondientes a su automóvil. Si tiene alguna pregunta o necesita información acerca de las herramientas para instalación, consulte con su concesionario de JVC de equipos de audio para automóviles o a una compañía que suministra tales herramientas.

INSTALLATION

• L'illustration suivante est un exemple d'installation typique. Cependant, vous devez faire les ajustements correspondant à votre voiture particulière. Si vous avez des questions ou avez besoin d'information sur des kits d'installation, consultez votre revendeur d'autoradios JVC ou une compagnie d'approvisionnement.

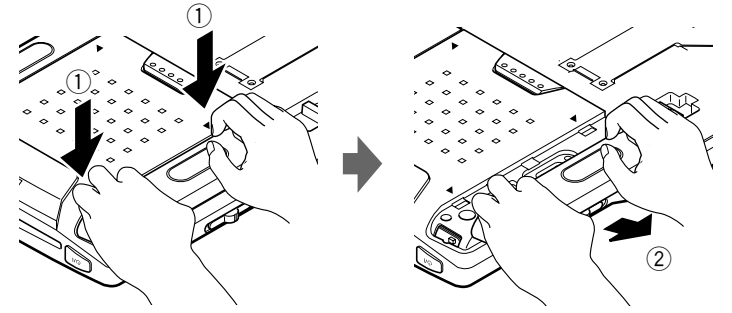
Detaching the dome light cover / Desmontaje de la cubierta de la luz del techo / Détachement du couvercle du plafonnier



To mount the widescreen monitor, detach the dome light covers. As illustrated, depress the two portions on the cover indicated by the marks ▲ (①), then pull off the cover (②).

Para instalar el monitor de pantalla ancha, desmonte las cubiertas de la luz del techo. Tal como se muestra en la ilustración, haga presión sobre las dos partes de la cubierta indicadas por las flechas ▲ (①) y, a continuación, retire la cubierta (②).

Pour monter le moniteur à écran large, détachez les couvercles du plafonnier. Comme montré sur l'illustration, faites pression sur les deux parties sur le couvercle marquées par ▲ (①), puis retirez le couvercle (②).



Mounting the widescreen monitor

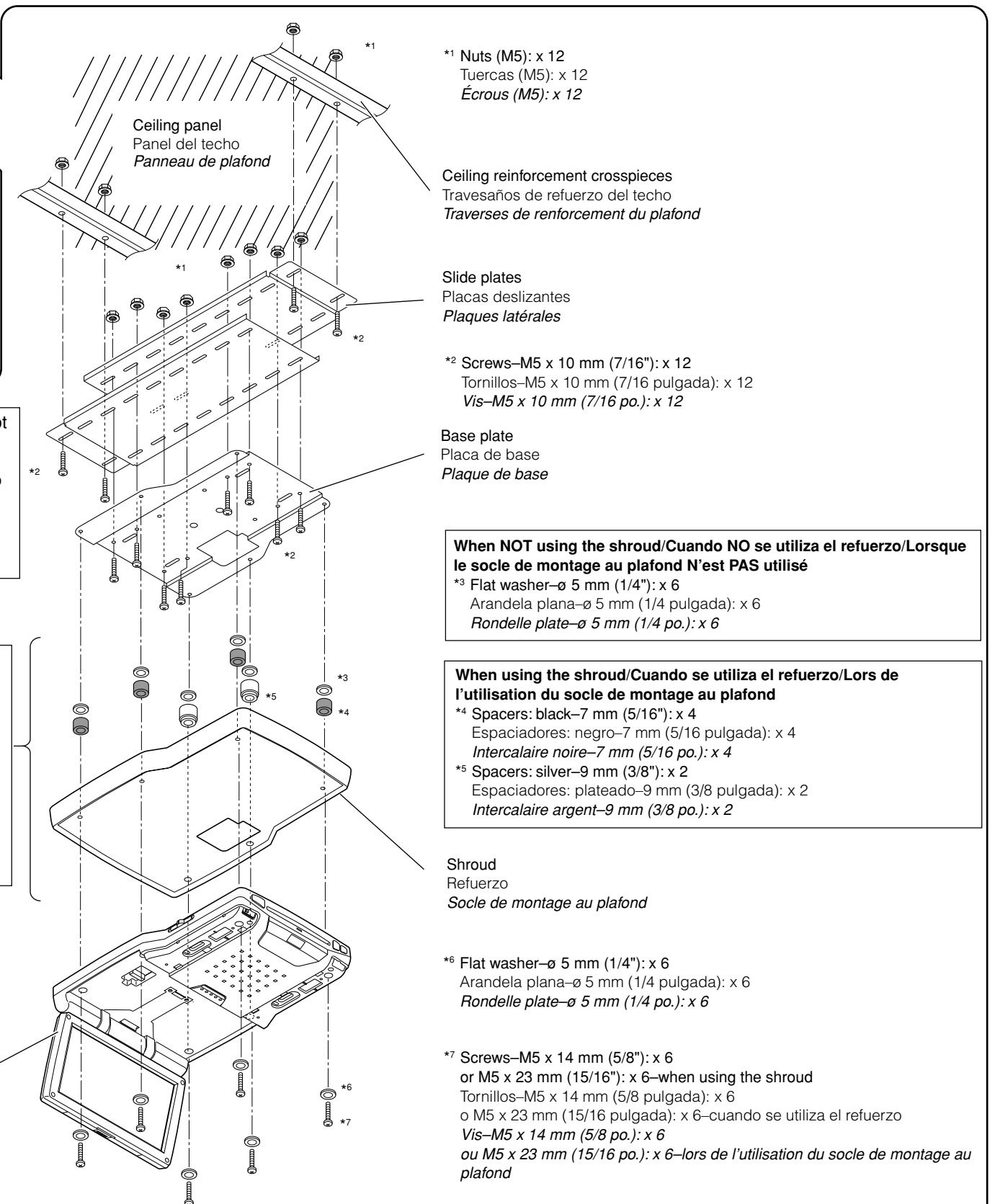
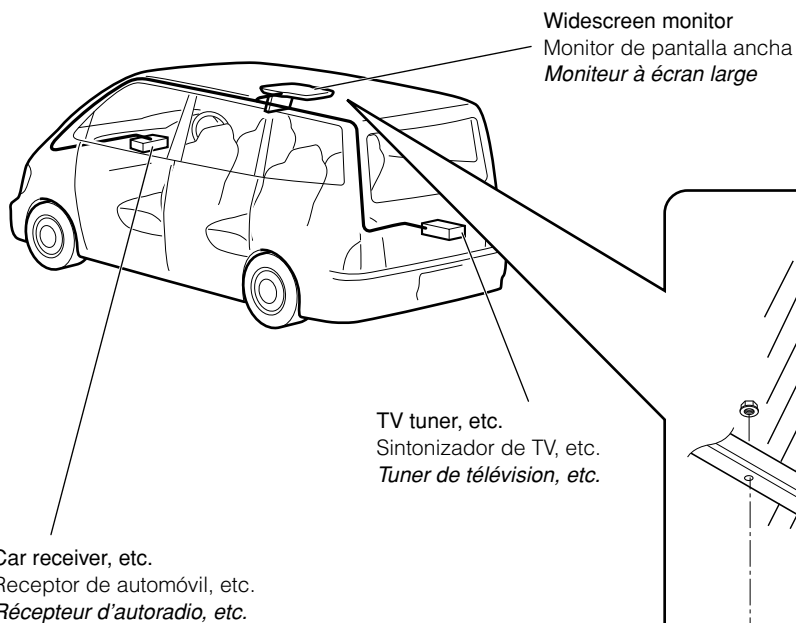
Installation procedure varies among cars. The following is an example. For detailed procedure, see the right page. **It is recommended to have the monitor system installed by a qualified technician.**

Montaje del monitor de pantalla ancha

El procedimiento de instalación varía según los diferentes vehículos. Lo siguiente es sólo un ejemplo. Para los detalles del procedimiento, consulte las páginas correspondientes. **Se recomienda que el sistema de monitor sea instalado por un técnico cualificado.**

Montage du moniteur à écran large

La procédure d'installation varie d'une voiture à l'autre. La procédure qui suit est un exemple. Pour en savoir plus, référez-vous à la page de droite. **Il est recommandé de faire installer le système de moniteur par un technicien qualifié.**



Before mounting the monitor, make sure that the screws do not reach the ceiling panel.

Antes de instalar el monitor, asegúrese de que los tornillos no lleguen al panel del techo.

Avant de monter le moniteur, assurez-vous que les vis n'atteignent pas le panneau du plafond.

These should not be used if the monitor position after installed seems so low that it may interfere with visibility through the rearview mirror.

No se deberán utilizar estos elementos si existe la posibilidad de que el monitor, una vez instalado, quede en una posición muy baja y obstaculice la visibilidad a través del espejo retrovisor.

Cette partie ne doit pas être utilisée si la position du moniteur après l'installation paraît si basse qu'elle pourrait gêner la visibilité du conducteur dans le rétroviseur.

Before mounting the monitor to the ceiling:

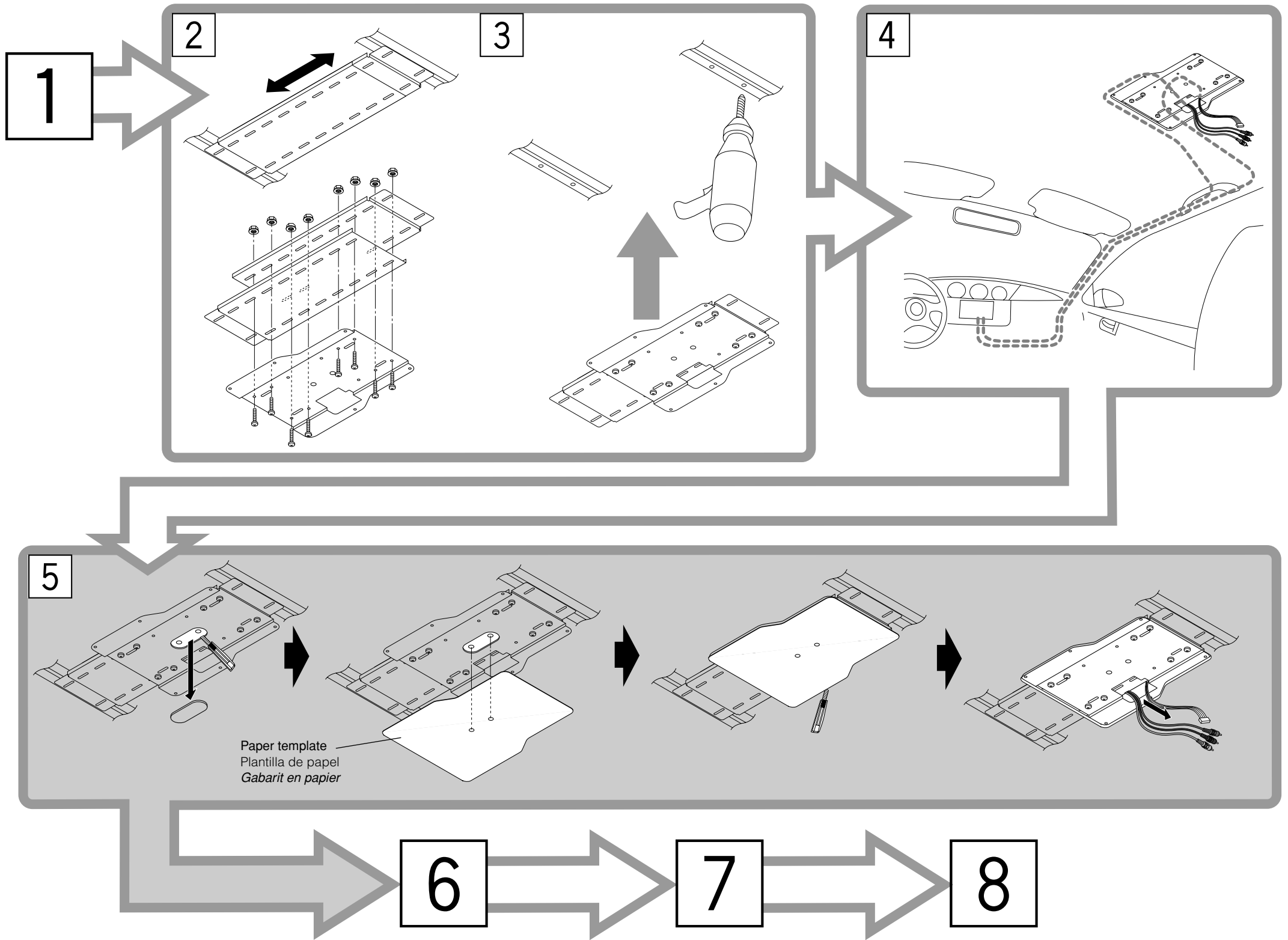
- Perform the required external connections first (see reverse page).
- Wear goggles or protective eyewear to protect your eyes especially while drilling the holes.
- Pay attention not to damage the car interior and its fittings and the ceiling of your car.

Antes de instalar el monitor en el techo:

- Efectúe primero las conexiones externas requeridas (véase el reverso).
- Utilice gafas o una máscara de protección para proteger sus ojos, especialmente mientras taladra los orificios.
- Preste especial atención para no dañar el interior, los herrajes y el techo de su vehículo.

Avant de fixer le moniteur au plafond:

- Réalisez d'abord les connexions extérieures nécessaires (voir la page de dos).
- Portez des lunettes étanches ou un article de lunetterie spécialisé pour protéger vos yeux, et plus spécialement pendant le perçage des trous.
- Faites attention de ne pas endommager l'intérieur de la voiture et ses garnitures, ainsi que son plafond.



1 Remove the dome light and interior headliner from the ceiling.

2 Assemble the slide plates and the base plate.
• Determine the monitor installation position and length of combined slide panels first.

3 Attach the assembled plates to the ceiling reinforcement crosspieces.
• Drill the four holes in the ceiling reinforcement crosspieces to meet the mounting holes of the assembled plates.

4 Finish wiring then attach the interior headliner.

5 Cut off the headliner using the supplied paper template.

6 Connect the harness and plugs from the ceiling to the monitor.
• For wiring and connections, see the reverse side.

7 Attach the shroud and the monitor to the base plate.
• When using the shroud, the supplied spacers should be inserted to be kept the appropriate distance between the base plate and the shroud. If the supplied spacers and screws cannot keep the appropriate distance between the headliner and the monitor, modify the spacers and screws (or obtain those of the appropriate length).

8 After mounting the monitor, attach the dome light covers.

1 Retire del techo, la luz del techo y el revestimiento interior.

2 Arme las placas laterales y la placa de base.
• Determine en primer lugar, la posición de instalación del monitor y el largo de los paneles laterales combinados.

3 Fije las placas armadas a los travesaños de refuerzo del techo.
• Taladre cuatro orificios en los travesaños de refuerzo del techo, de manera que coincidan con los orificios de montaje de las placas armadas.

4 Realice el cableado y coloque el revestimiento interior.

5 Corte el revestimiento interior utilizando la plantilla de papel suministrada.

6 Conecte el cableado preformado y las clavijas entre el techo y el monitor.
• Para los detalles sobre el cableado y las conexiones, véase al dorso.

7 Fije el refuerzo y el monitor a la placa de base.
• Cuando utilice el refuerzo, se deberán insertar los espaciadores entregados para poder mantener una distancia apropiada entre la placa de base y el refuerzo. Si los espaciadores y tornillos suministrados no pueden mantener la distancia apropiada entre el revestimiento interior y el monitor, modifique los espaciadores y tornillos (o consígase otros del largo apropiado).

8 Tras realizar el montaje del monitor, fije las cubiertas de la luz del techo.

1 Retirez le plafonnier et la garniture intérieure du plafond.

2 Assemblez les plaques latérales avec la plaque de base.
• Déterminez d'abord la position d'installation du moniteur et la longueur des panneaux latéraux combinés.

3 Attachez les plaques assemblées sur les traverses de renforcement du plafond.
• Percez quatre trous dans les traverses de renforcement du plafond au niveau des trous de montage des plaques assemblées.

4 Terminez le câblage puis attachez la garniture intérieure.

5 Coupez la garniture en utilisant le gabarit en papier fourni.

6 Connectez le harnais et les fiches du plafond au moniteur.
• Pour le câblage et les connexions, référez-vous à la page de dos.

7 Attachez le socle de montage au plafond et le moniteur sur la plaque de base.
• Les intercalaires fournies peuvent être utilisées si une certaine distance doit être maintenue entre la plaque de base et le socle de montage au plafond. Si les intercalaires et les vis fournies ne permettent pas de maintenir la distance appropriée entre la garniture et le moniteur, modifiez les intercalaires ou les vis (ou munissez-vous d'intercalaires et de vis de la longueur appropriée).

8 Après avoir monté le moniteur, attachez les couvercles du plafonnier.

ELECTRICAL CONNECTIONS

CONEXIONES ELECTRICAS

RACCORDEMENTS ELECTRIQUES

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.

Para evitar cortocircuitos, recomendamos que desconecte el terminal negativo de la batería y que efectúe todas las conexiones eléctricas antes de instalar la unidad. Si usted no está seguro de cómo instalar correctamente la unidad, hágala instalar por un técnico cualificado.

Pour éviter tout court-circuit, nous vous recommandons de débrancher la borne négative de la batterie et d'effectuer tous les raccordements électriques avant d'installer l'appareil. Si l'on n'est pas sûr de pouvoir installer correctement cet appareil, le faire installer par un technicien qualifié.

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.

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

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

- Replace the fuse with one of the specified ratings. If the fuse blows frequently, consult your JVC car audio dealer.

- Reemplace el fusible por uno con la corriente especificada. Si el fusible se quemase frecuentemente, consulte con su concesionario car audio de JVC.

- Remplacer le fusible par un de la valeur précisée. Si le fusible saute souvent, consulter votre revendeur d'autoradios JVC.

Typical Connections / Conexiones típicas / Raccordements typiques

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit. The leads of the power cord and those of the connector from the car body may be different in color.

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

Los conductores del cordón de alimentación y el cordón de la luz del techo y de los conectores procedentes de la carrocería del vehículo podrían ser diferentes en color.

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

Les fils du cordon d'alimentation et du cordon du plafonnier et ceux du connecteur provenant de la voiture peuvent être de couleur différente.

1 Connect the colored leads of the power cord to the car battery, the car light control switch, and the door sensor in the following sequence.

- ① Black: ground
- ② Yellow: to car battery (constant 12 V)
- ③ Red: to an accessory terminal
- ④ Orange: to car light control switch

1 Conecte los conductores de color del cable de alimentación a la batería del automóvil, al interruptor de control de las luces del automóvil, y al sensor de la puerta, en la secuencia siguiente.

- ① Negro: a tierra
- ② Amarillo: a la batería del automóvil (12 V constantes)
- ③ Rojo: a un terminal de accesorio
- ④ Naranja: al interruptor de control de las luces del automóvil

1 Connectez les fils de couleur du cordon d'alimentation à la batterie de la voiture, au commutateur d'éclairage et capteur de porte, dans l'ordre suivant.

- ① Noir: à la masse
- ② Jaune: à la batterie de la voiture (12 V constant)
- ③ Rouge: à la prise accessoire
- ④ Orange: au commutateur d'éclairage de la voiture

DOMELIGHT

- ⑤ Gray with red stripe: to the door sensor (DOOR SW)
- ⑥ Black with red stripe: ground (DOMELIGHT)
- ⑦ Yellow with red stripe: to car battery (constant 12 V)

DOMELIGHT
⑤ Gris con rayas rojas: al sensor de la puerta (DOOR SW)
⑥ Negro con rayas rojas: a tierra (DOMELIGHT)
⑦ Amarillo con rayas rojas: a la batería del automóvil (12 V constantes)

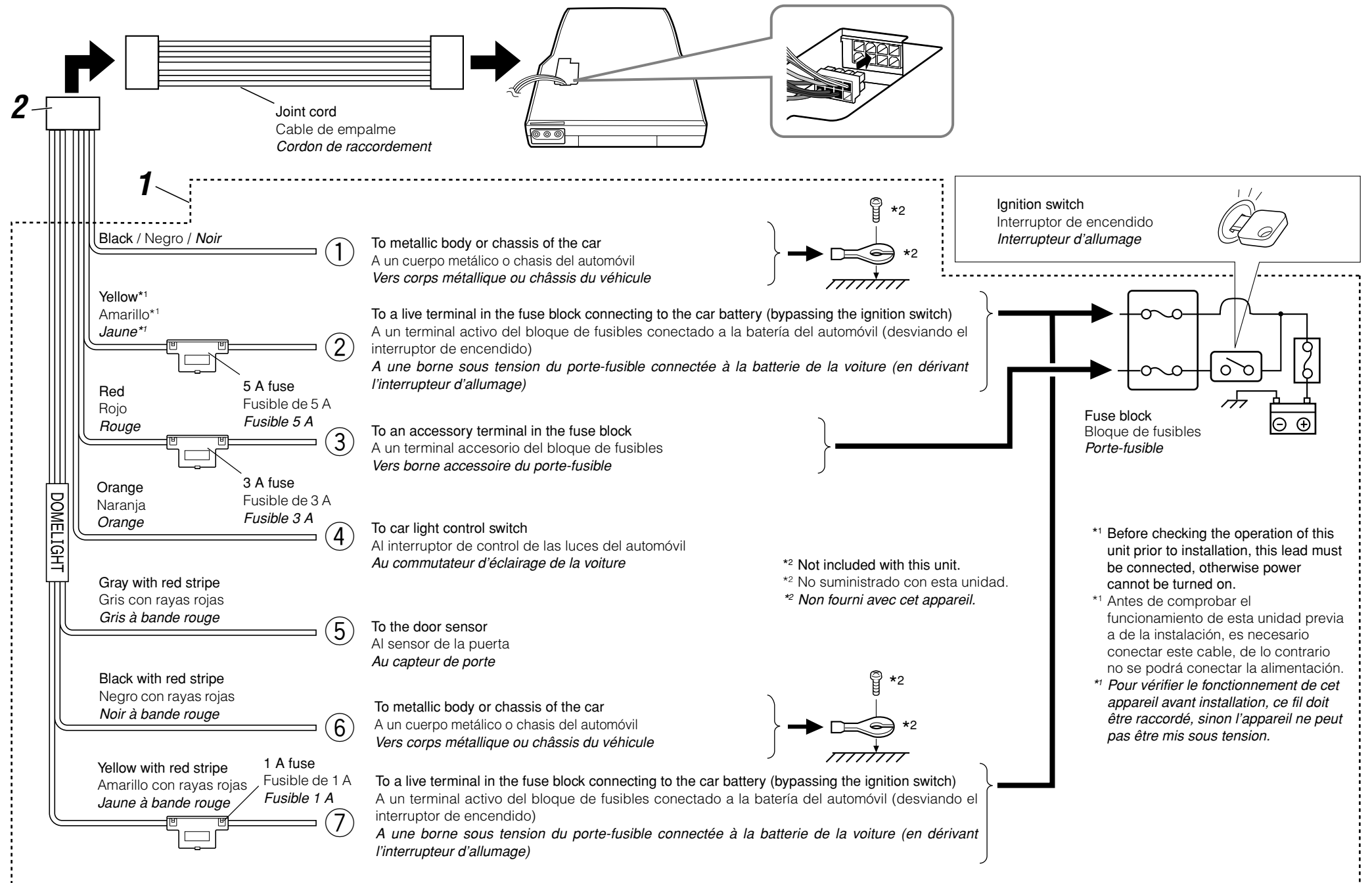
DOMELIGHT

- ⑤ Gris à bande rouge: au capteur de porte (DOOR SW)
- ⑥ Noir à bande rouge: à la masse (DOMELIGHT)
- ⑦ Jaune à bande rouge: à la batterie de la voiture (12 V constant)

2 Finally connect the wiring harness to the unit.
• Using the joint cord makes the connection/disconnection easier.

2 Por último, conecte el cable de alimentación a la unidad.
• El uso del cable prolongador de alimentación facilita la conexión/desconexión.

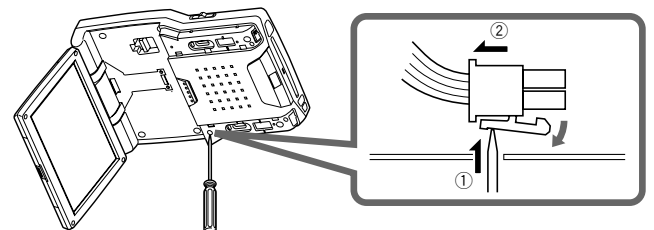
2 Finalement, connectez le faisceau de fils à l'appareil.
• L'utilisation du cordon prolongateur d'alimentation rend la connexion/déconnexion plus facile.



To disconnect the harness, unlock the harness using the screw driver or a similar tool, then pull out the harness. (Detach the dome light cover prior to this.)

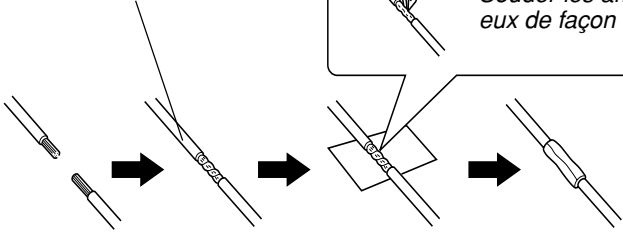
Para desconectar el mazo de conductores, desbloquéelo con un destornillador o herramienta similar y seguidamente, extráigalo. (Antes de realizar esto, retire la cubierta de la luz del techo.)

Pour déconnecter le harnais, déverrouillez le harnais en utilisant un tournevis ou un outil similaire, puis tirez sur le harnais. (Débranchez le plafonnier avant de le faire.)



Connecting the leads / Conexión de los conductores / Raccordement des fils

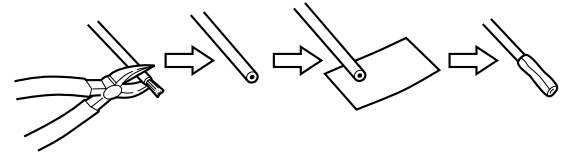
Twist the core wires when connecting.
Retuerce los alambres de alma para conectarlos.
Torsader les âmes des fils en les raccordant.



Solder the core wires to connect them securely.
Suelde los alambres de alma para conectarlos con firmeza.
Souder les âmes des fils pour les raccorder entre eux de façon sûre.

CAUTION / PRECAUCIÓN / ATTENTION:

- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- Para evitar cortocircuitos, cubra los cables NO UTILIZADOS con cinta aislante.
- Pour éviter les court-circuits, couvrir les bornes des fils qui ne sont PAS utilisés avec de la bande isolante.



CONNECTING TO THE RECEIVER AND EXTERNAL COMPONENTS

CONEXION AL RECEPTOR Y A LOS COMPONENTES EXTERNOS

CONNEXION DE L'AUTORADIO ET DES APPAREILS EXTÉRIEURS

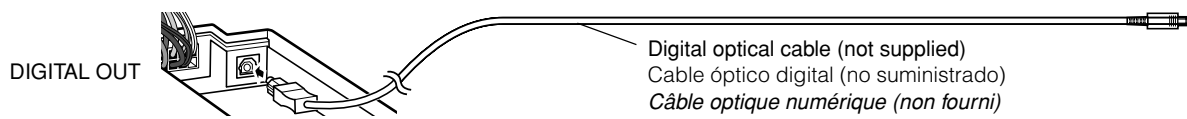
DO NOT connect the AV1-IN and AV2-INPUT plugs on the monitor to the LINE OUT or SUBWOOFER plugs of the car receiver.

NO conecte las clavijas AV1-IN y AV2-INPUT del monitor a las clavijas LINE OUT o SUBWOOFER del receptor para automóvil.

NE CONNECTEZ PAS les fiches AV1-IN et AV2-INPUT du moniteur aux fiches LINE OUT ou SUBWOOFER de l'autoradio.

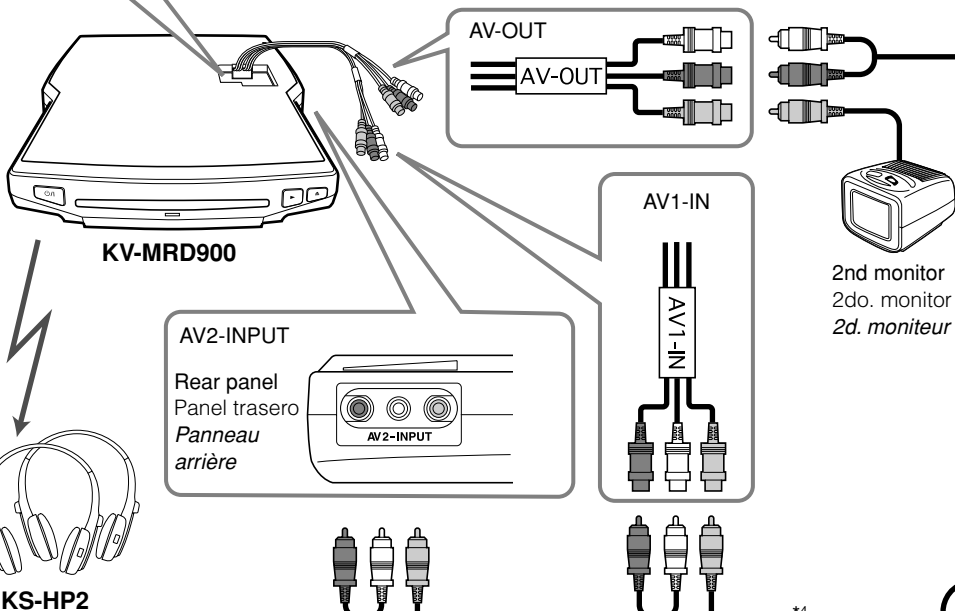
For KV-MRD900 / Para KV-MRD900 / Pour le KV-MRD900

See also "About sounds reproduced through the terminals" on page 36 of the INSTRUCTIONS.
Consulte también "Acerca de los sonidos reproducidos a través de los terminales traseros" en la página 36 de las MANUAL DE INSTRUCCIONES.
Référez-vous aussi à "À propos des sons reproduits par les prises" à la page 36 du MANUEL D'INSTRUCTIONS.



Digital optical cable (not supplied)
Cable óptico digital (no suministrado)
Câble optique numérique (non fourni)

Audio/video control amplifier or the decoder compatible with the multichannel digital sources
Amplificador de control de audio/vídeo o el decodificador compatibles con las fuentes digitales multicanal
Amplificateur de commande audio/vidéo ou décodeur compatible avec les sources numériques multicanaux

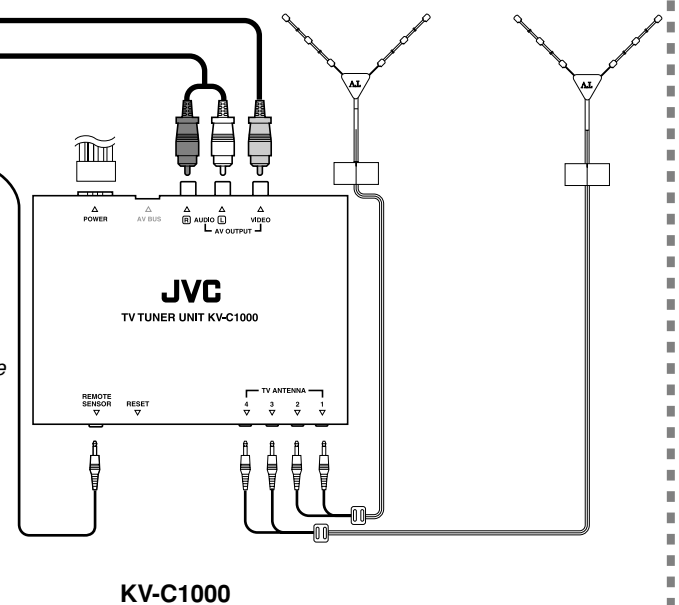


LINE IN (or equivalent terminal)
(o terminal equivalente)
(ou prise équivalente)
Car receiver
Receptor para automóvil
Récepteur d'autoradio

When using the TV tuner system KV-C1000 Cuando se utiliza el sistema de sintonizador de TV KV-C1000 Lors de l'utilisation du tuner de télévision KV-C1000

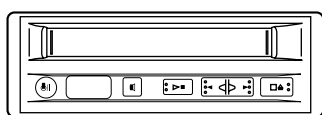
Antenna elements (supplied with KV-C1000)
Elementos de antena (suministrados con KV-C1000)
Éléments d'antenne (fournis avec le KV-C1000)

Remote sensor unit (supplied with KV-C1000)
Unidad de sensor remoto (suministrada con KV-C1000)
Capteur de télécommande (fourni avec le KV-C1000)

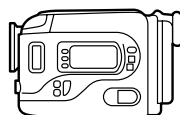


KV-C1000

Playback source / Fuente de reproducción / Source de lecture



VCR (KV-V8 or KZ-V10)
VCR (KV-V8 o KZ-V10)
Magnétoscope (KV-V8 ou KZ-V10)



Camcorder
Videocámara
Caméscope

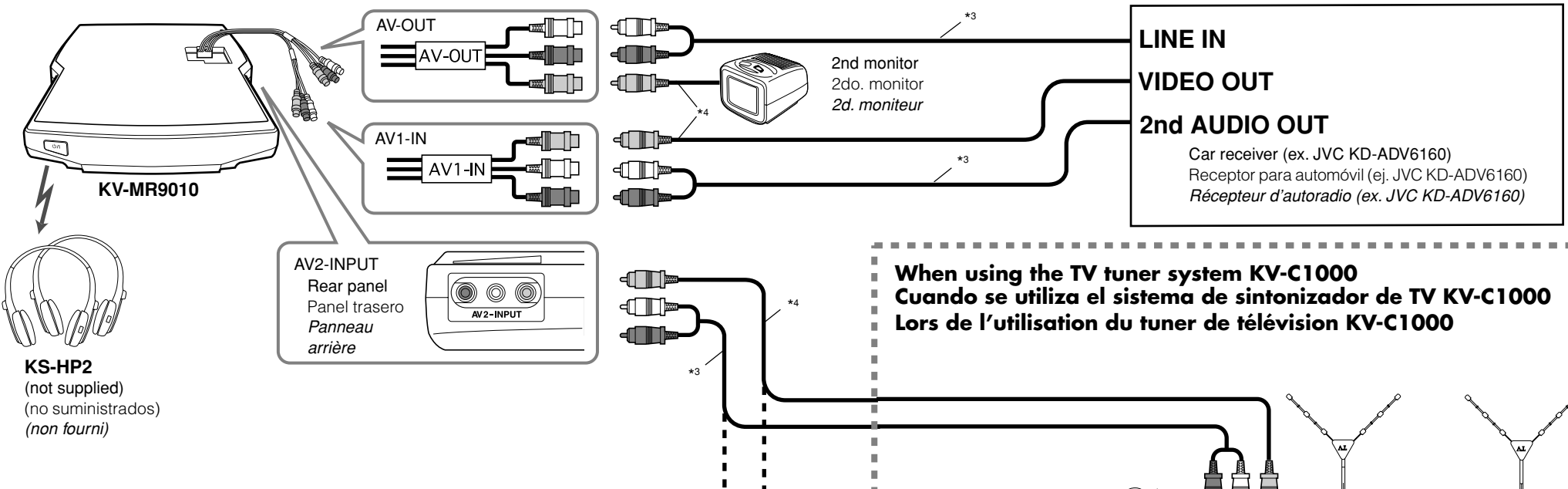
*3 RCA pin plug cord (not supplied)
*4 Video cord (not supplied)

*3 Cable con clavija monopolar RCA (no suministrado)
*4 Cordón de vídeo (no suministrado)

*3 Cordon à fiches cinch (non fourni)
*4 Cordon vidéo (non fourni)

For KV-MR9010 / Para KV-MR9010 / Pour le KV-MR9010

- When the receiver is equipped with the 2nd AUDIO OUT plug
- Cuando el receptor está equipado con la clavija 2nd AUDIO OUT
- Si l'autoradio est muni d'une fiche 2nd AUDIO OUT

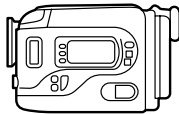


KS-HP2
(not supplied)
(no suministrados)
(non fourni)

Playback source / Fuente de reproducción / Source de lecture



VCR (KV-V8 or KZ-V10)
VCR (KV-V8 o KZ-V10)
Magnétoscope (KV-V8 ou KZ-V10)



Camcorder
Videocámara
Caméscope

When increasing the headphones level, first increase output level of the 2nd AUDIO OUT on the receiver, then adjust the headphones level on the headphones.

- Refer also to the INSTRUCTIONS of your car receiver.

Cuando aumente el nivel de los auriculares, primero aumente el nivel de salida de 2nd AUDIO OUT en el receptor y, a continuación, ajuste el nivel de auriculares en los auriculares.

- Consulte también las MANUAL DE INSTRUCCIONES de su receptor para automóvil.

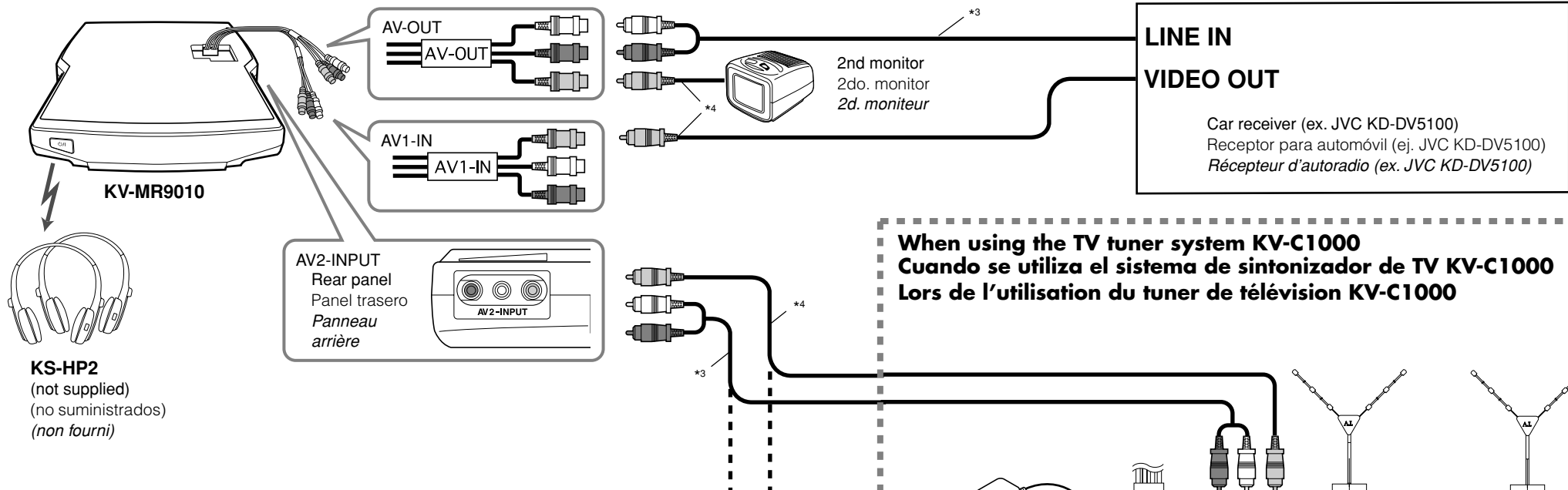
Si vous souhaitez augmenter le niveau du casque d'écoute, augmentez d'abord le niveau de sortie de la prise 2nd AUDIO OUT sur l'autoradio, puis ajustez le niveau du casque d'écoute sur le casque.

- Référez-vous aussi au MANUEL D'INSTRUCTION de votre autoradio.

- When the receiver is NOT equipped with the 2nd AUDIO OUT plug

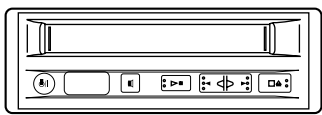
- Cuando el receptor NO está equipado con la clavija 2nd AUDIO OUT

- Si l'autoradio N'est PAS muni de fiches 2nd AUDIO OUT

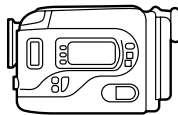


KS-HP2
(not supplied)
(no suministrados)
(non fourni)

Playback source / Fuente de reproducción / Source de lecture



VCR (KV-V8 or KZ-V10)
VCR (KV-V8 o KZ-V10)
Magnétoscope (KV-V8 ou KZ-V10)



Camcorder
Videocámara
Caméscope

*3 RCA pin plug cord (not supplied)
*4 Video cord (not supplied)

*3 Cable con clavija monopolar RCA (no suministrado)
*4 Cordón de vídeo (no suministrado)

*3 Cordon à fiches cinch (non fourni)
*4 Cordon vidéo (non fourni)

TROUBLESHOOTING

- **The fuse blows.**
* Are the red and black leads connected correctly?
- **Power cannot be turned on.**
* Is the yellow lead connected?
- **Picture does not come on screen.**
* Is the correct input selected?
- **Dome lights cannot be turned on.**
* Is the yellow and red stripe lead connected?
- **This unit does not work at all.**
* Have you reset your unit?

LOCALIZACION DE AVERIAS

- **El fusible se quema.**
* ¿Están los conductores rojo y negro correctamente conectados?
- **No es posible conectar la alimentación.**
* ¿Está el cable amarillo conectado?
- **La imagen no aparece en la pantalla.**
* ¿Se ha seleccionado la entrada correcta?
- **Las luces del techo no se encienden.**
* ¿Está conectado el conductor de rayas rojas y amarillas?
- **La unidad no funciona para nada.**
* ¿Reinicializó su unidad?

EN CAS DE DIFFICULTES

- **Le fusible saute.**
* Les fils rouge et noir sont-ils raccordés correctement?
- **L'appareil ne peut pas être mise sous tension.**
* Le fil jaune est-elle raccordée?
- **Aucune image n'apparaît sur l'écran.**
* L'entrée correcte est-elle choisie?
- **Le plafonnier ne peut pas être allumé.**
* Le fil à bandes jaune et rouge est-il connecté?
- **Cet appareil ne fonctionne pas du tout.**
* Avez-vous réinitialisé votre appareil?

JVC



ENGLISH

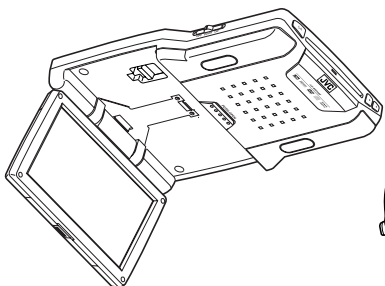
DEUTSCH

FRANÇAIS

NEDERLANDS

9-INCH WIDESCREEN MONITOR WITH DVD PLAYER 9-ZOLL-BREITBILDMONITOR MIT DVD-PLAYER MONITEUR COULEUR A ECRAN LARGE DE 9 POUCES AVEC LECTEUR DE DVD 9-INCH BREEDBEELD-MONITOR MET DVD-SPELER

KV-MRD900



WMA MP3

- This system cannot receive television broadcasts. Use the separately sold TV tuner unit KV-C1001 for optional television broadcast reception.
- Dieses System kann keine Fernsehsignale empfangen. Verwenden Sie den separat erhältlichen Fernsehtuner KV-C1001, um Fernsehsignale zu empfangen.
- Ce système ne peut pas recevoir les émissions de télévision. Utilisez le module de tuner de télévision mobile KV-C1001 vendu séparément afin de pouvoir recevoir les émissions de télévision.
- Met dit systeem kunt u geen televisie-uitzendingen ontvangen. Gebruik de los verkrijgbare draagbare, KV-C1001 TV-tuner voor ontvangst van televisie-uitzendingen.

For installation and connections, refer to the separate manual.

Für den Einbau und die Anschlüsse siehe das eigenständige Handbuch.

Pour l'installation et les raccordements, référez-vous au manuel séparé.

Bijzonderheden over de installatie en aansluiting van het apparaat vindt u in de desbetreffende handleiding.

INSTRUCTIONS BEDIENUNGSANLEITUNG MANUEL D'INSTRUCTIONS GEBRUIKSAANWIJZING

LVT1341-001A

[E]

WARNINGS

- **DO NOT INSTALL THE MONITOR IN A LOCATION WHICH OBSTRUCTS DRIVING, VISIBILITY, SAFETY DEVICE FUNCTION SUCH AS AIR BAGS OR WHICH IS PROHIBITED BY APPLICABLE LAWS AND REGULATIONS.**
- There may be legal regulations defining the permissible installation locations for the monitor which differ by country or by state. Be sure to install the monitor in a correct location according to such laws.
- The driver must not operate the monitor while driving.
 - * Stop your vehicle in a safe location when operating the monitor.
- The driver must not watch the television or playback pictures while driving. If the driver does it while driving, it may lead to carelessness and cause an accident.
- Keep the monitor at an appropriate sound level while driving. Driving with the sound at a level that prevents you from hearing sounds outside of and around the vehicle may cause an accident.
- Be sure not to let the monitor fall or be strongly impacted since this may cause a malfunction or fire.
- Do not use the monitor with the engine off. Doing so with the engine off will consume battery power and may prevent the engine from starting.
- When not in use, close the liquid crystal panel and store it into the compartment.
- Do not touch the surface of the liquid crystal panel directly.
- Do not hang any object on the monitor or hang down, as this may damage the monitor.



CAUTION:

This monitor should be used on DC 12 V only. To prevent electric shocks and fire hazards, DO NOT use any other power source.

Installation requires some special knowledge.

Do not install the monitor yourself. Consult a dealer having special knowledge of this kind for safe and reliable installation.

CAUTIONS on the supplied headphones —KS-HP2:

- DO NOT leave the headphones in a place exposed to direct sunlight for a long time, such as a dashboard, as they may be damaged.
- Keep the headphones away from a cellular phone to avoid interference.
- DO NOT turn off the power with the volume set at high level, as the sudden blast of sound can damage your hearing and/or headphones next time you use the headphones.
- If you experience a ringing in your ears, reduce volume or stop using the headphones.

Thank you for purchasing a JVC product.

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

IMPORTANT FOR LASER PRODUCTS

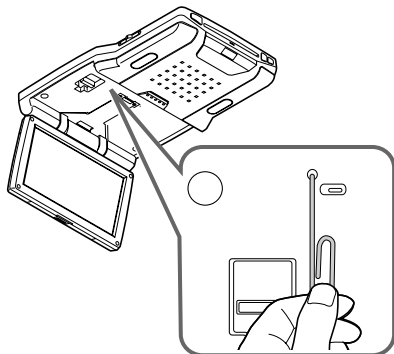
1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.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

CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM.	ADVARSEL : Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling.	VARNING : Synlig och osynlig laserstråling när den öppnas och spärren är urkopplad. Beträkta ej strålen.	VARO : Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyville ja näkymättömälle lasersträilylle. Vältä säteem kohdistumisista suoraan iksesi. (f)
(e)	(e)	(c)	(s)

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

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

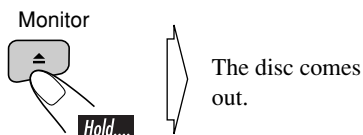
How to reset your monitor



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

How to forcibly eject a disc

If a disc cannot be recognized by the monitor or cannot be ejected...



(for about 5 seconds while power is on)

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

How to read this manual

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

- Some related tips and notes are explained in “More about this monitor” (see pages 33 – 35).
- Button operations are mainly explained with the illustrations as follows:

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

Contents

How to reset your monitor.....	4	DVD/VCD/JPEG special functions ...	21
How to forcibly eject a disc.....	4	Selecting audio languages	21
How to read this manual.....	4	Selecting subtitles.....	21
Precautions.....	6	Selecting the multi-angle views.....	21
Widescreen monitor	7	Disc menu operations	22
Parts identification.....	7	Zoom in.....	22
Remote controller — RM-RK230	8	On-Screen disc operations.....	23
Main elements and features	8	Basic on-screen bar operations	24
Headphones — KS-HP2.....	10	Basic control screen operations	26
Main elements and features	10	List screen operations	27
Basic operations	11	DVD setup menu	28
Adjustments	13	Basic setting procedure.....	28
Using the monitor menu	13	Maintenance	31
Changing the aspect ratio	15	Language codes.....	32
Playable discs	17	More about this monitor	33
Disc operations	18	Troubleshooting	37
Playing a disc	18	Specifications.....	39
Starting playback	18		
Basic operations.....	19		

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....

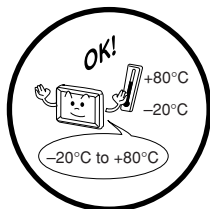
If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Precautions

Cautions for handling the liquid crystal panel

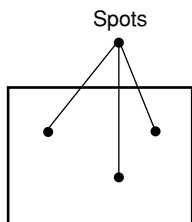
Do not expose the liquid crystal panel to direct sunlight.

- Storage temperature range: -20°C to $+80^{\circ}\text{C}$



When the liquid crystal panel reaches high temperatures or low temperatures, chemical changes occur within the liquid crystal panel which may cause it to malfunction.

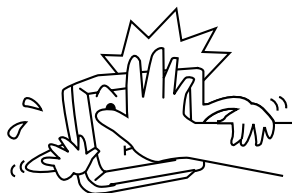
The red spots, blue spots and green spots on the panel surface are a normal characteristic of liquid crystal panels, and not a problem.



Note:

The liquid crystal panel is built with very high precision technology and has at least 99.99% effective image pixels. Be aware that on 0.01% of the panel there may be missing or constantly lit pixels.

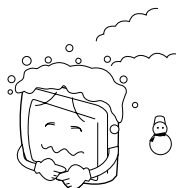
Do not drop the liquid crystal panel or strike it sharply.



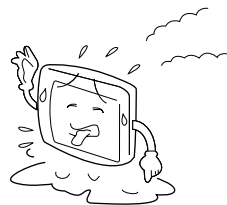
When the temperature is very cold or very hot, the image may not appear clearly or may move slowly.

The image may not be synchronized with the sound or the image quality may decline in such environments. Note that this is not a malfunction or problem.

- Usage temperature range: 0°C to $+40^{\circ}\text{C}$

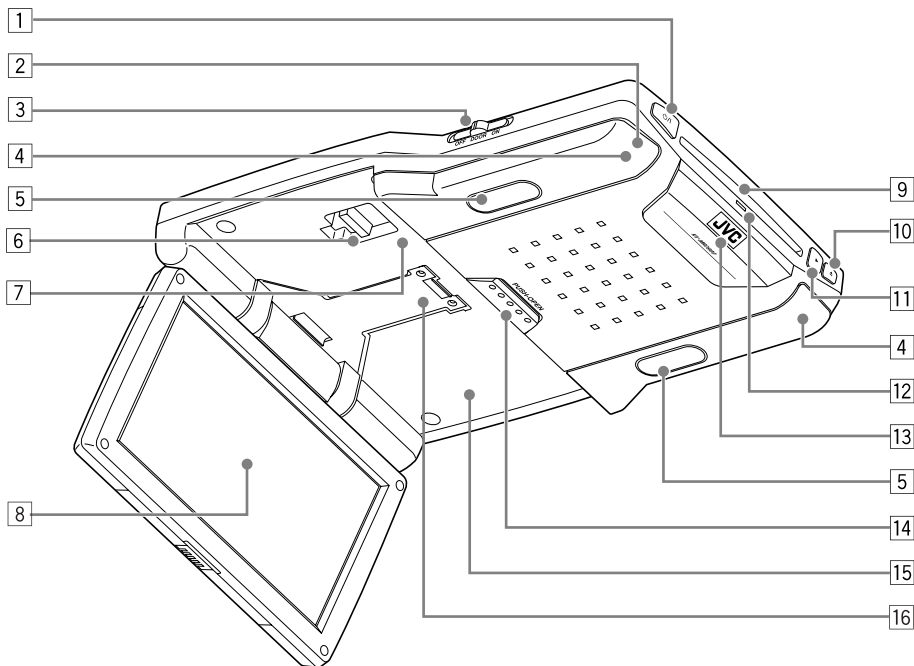


0°C or colder



40°C or hotter

Parts identification

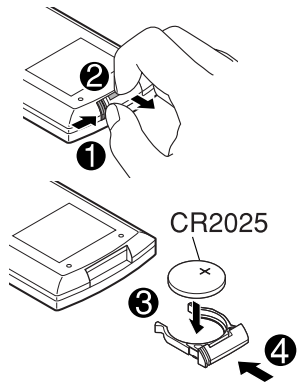


- | | |
|---|--|
| 1 ⏻/⏻ (standby/on) buttons | 8 Screen (Liquid crystal panel) |
| • Turns on the power if pressed. | 9 Disc loading slot |
| • Turns off the power if pressed and held. | 10 ▲ (eject) button |
| 2 Remote sensor | 11 ► (play) button |
| 3 Dome light switch | 12 Disc loading lamp |
| • See “To activate the door sensor” on page 12. | 13 White LED |
| 4 IR transmitters | 14 PUSH-OPEN button |
| 5 Dome lights | 15 Screen compartment |
| 6 Arm lock lever | 16 Screen arm |
| 7 Reset button | |

When you watch the screen at an angle, the picture might not be clear. This is not a malfunction. The finest picture can be seen when you watch the screen straight-on.

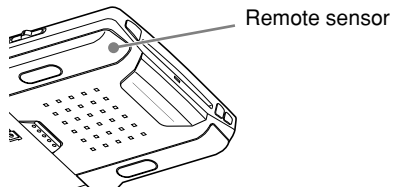
Remote controller — RM-RK230

Installing the lithium coin battery (CR2025)



Before using the remote controller:

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

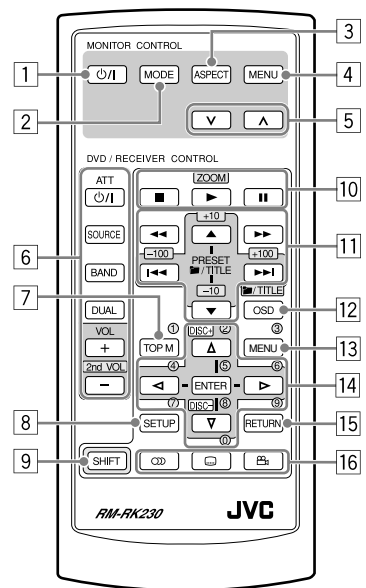


- Do not expose the remote sensor to strong light (direct sunlight or artificial lighting).

Warning:

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

Main elements and features



MONITOR CONTROL

- 1 **⏻/⏻** (standby/on) button
 - Turns on the power if pressed.
 - Turns off the power if pressed and held.
- 2 **MODE** button
 - Selects the playback source.
- 3 **ASPECT** button
 - Changes the aspect ratio of the screen.
- 4 **MENU** button
 - Calls up the menu, then selects the adjustable menu items.
- 5 **∇/∧** buttons
 - Adjust the level of the selected item or select an appropriate setting for selected item.

DVD/RECEIVER CONTROL

- 6 Receiver control buttons*1
 - ϕ /I ATT (standby/on attenuator) button
 - SOURCE button
 - BAND button
 - DUAL button
 - VOL + / - (2nd VOL + / -) buttons
- 7 TOP M (menu) button*2
 - Displays the DVD and VCD*3 disc menu.
- 8 SETUP button*2
- 9 SHIFT button
- 10 Disc basic operation buttons
 - (stop), ► (play), || (pause)
 - ► (play) button functions as ZOOM button when pressed with SHIFT button.
- 11 Advanced disc operation buttons
 - ■/TITLE ▲ / ▼*4
– Select the titles (for DVD) or folders (for MP3/WMA/JPEG)*5.
 - |◀◀ / ▶▶| (reverse skip/forward skip)*6
 - ◀◀ / ▶▶ (reverse search/forward search)*7
- 12 OSD button
 - Displays the on-screen bar.
 - Also functions as the ■/TITLE button when pressed with SHIFT button.
– You can directly select folders (for MP3/WMA/JPEG) or titles (for DVD) using the number buttons (see right column).
- 13 MENU button*2
 - Displays the DVD and VCD*3 disc menu.
- 14 Menu operation buttons*2
 - Cursor (Δ , ∇ , \triangleleft , \triangleright) and ENTER
- 15 RETURN button*2
- 16 DVD/VCD special function buttons
 - DVD/VCD: (audio)
 - DVD: (subtitle), (angle)

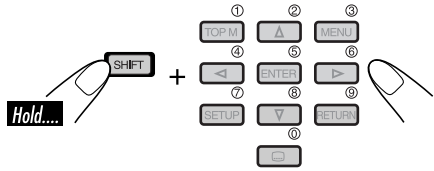
*1 Controllable only if your car receiver which is connected to this monitor is one of the JVC receivers.

*2 These buttons function as the number buttons when pressed with SHIFT button.

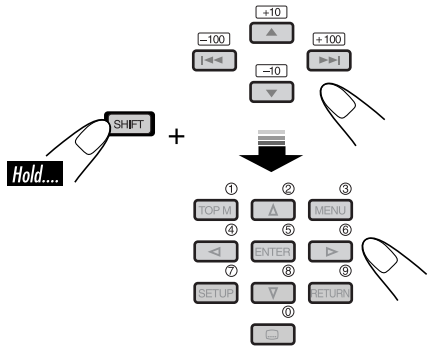
*3 Only when PBC is not in use.

How to select a number

- To select a number from 0 – 9:



- To select a number greater than 9:



- +100/-100 buttons used only for searching MP3/WMA/JPEG tracks number greater than 99.

*4 These buttons do not function as PRESET ▲ / ▼.

*5 These buttons function as the +10/-10 buttons when pressed with SHIFT button.

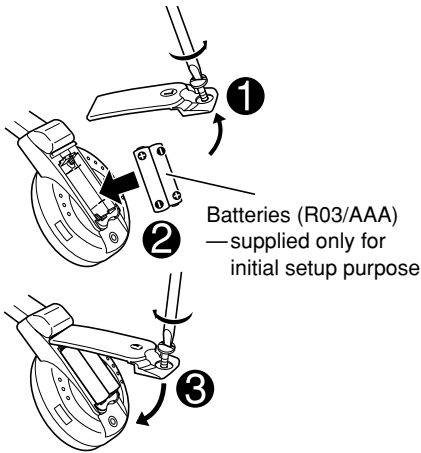
*6 These buttons function as the +100/-100 buttons when pressed with SHIFT button.

*7 Not used for MP3/WMA/JPEG operations.

Headphones — KS-HP2

You can listen to the playback sounds with cordless headphones—KS-HP2.

■ Installing the batteries

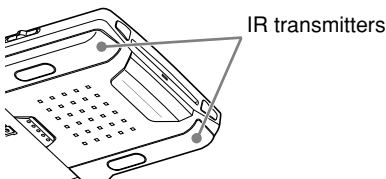


CAUTIONS:

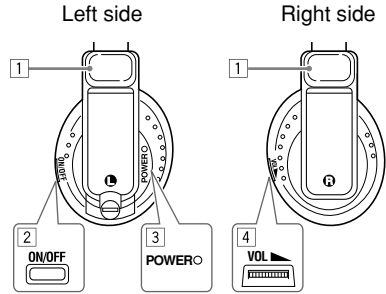
- The supplied batteries are not rechargeable. DO NOT recharge them; otherwise, battery leakage or explosion may result.
- Insert the batteries with the correct polarity “+” and “-” to prevent the battery leakage or explosion.

Before using the cordless headphones:

The headphones give best results when used within about 2 m from the transmitter. These headphones need to receive infrared (IR) signals sent from IR transmitters on the monitor. Therefore, if you use the headphones where the signals cannot be received in a straight line of sight, noises may be generated.



Main elements and features



- 1 IR sensors
 - DO NOT cover the IR sensors, as reception will become poor.
- 2 ON/OFF button
 - The power automatically shuts off in the following cases:
 - The headphones are used for about 4 hours.
 - No signal is received for about 4 minutes.
 - You can turn on the power again by pressing the button.
- 3 POWER lamp
- 4 Volume control

Playback sounds are transmitted through IR transmitters to the cordless headphones. When using the headphones, set the monitor menu item “IR” to “ON.” (See page 14.)

WARNING:

DO NOT use the headphones while driving. Shutting out all outside sounds while driving is dangerous and may result in a traffic accident.

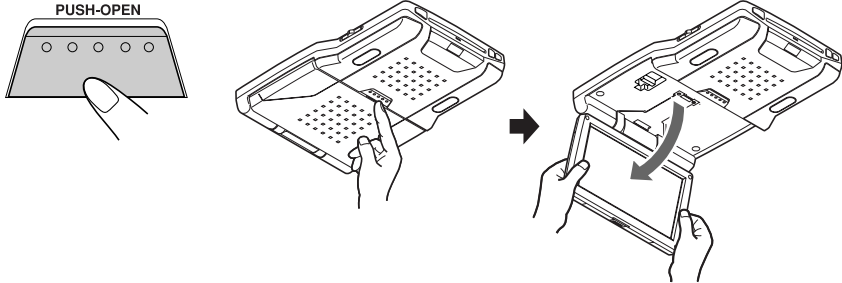
Basic operations

Preparation

Before operating the unit, make sure that all external components are correctly connected and installed.

1 Open the liquid crystal panel.

Press PUSH-OPEN until the liquid crystal panel is unlocked, then open the liquid crystal panel by both hands.



CAUTION:

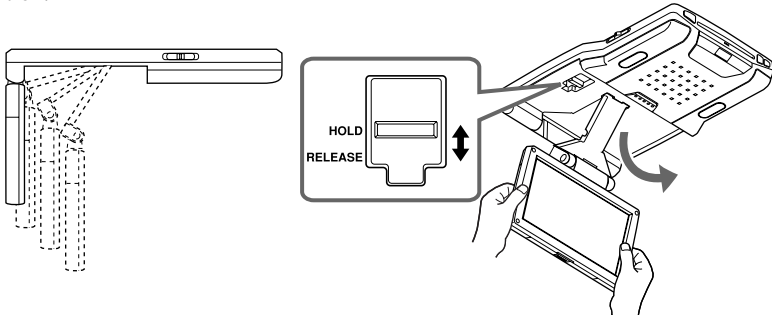
- When not in use, close the liquid crystal panel and store it into the compartment; otherwise it may obstruct the visibility through the rearview mirror.
- Do not touch the surface of the liquid crystal panel directly.

When closing the liquid crystal panel, store it in the screen compartment until it is locked.

To change the monitor position

You can select a monitor position from the four positions.

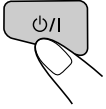
- 1 Slide the arm lock lever to RELEASE, then pull down or push up the monitor.
- 2 Slide the arm lock lever to HOLD, then remove the screen arm to the nearest locking position.



When closing the liquid crystal panel, push up the monitor to the highest position.

To be continued....

2 Turn on the power.

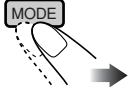


Monitor



Remote control

3 Select the playback source.



Each time you press the button, the playback source changes as follows:



4 Operate the playback source you selected.

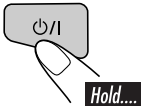
To operate the built-in DVD player, see “Disc operations” on page 18.

To operate the external components, refer to the manuals for the connected components.

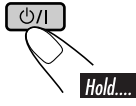
5 Adjust the volume on the car receiver.

- When using the headphones, adjust its volume level.

■ To turn off the power



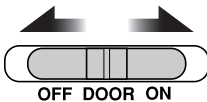
Monitor



Remote control

- When using the headphones, turn off the power after turning off the headphones.

■ To activate the door sensor



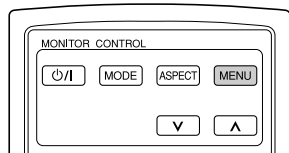
- **OFF:** Turns off the dome lights.
- **DOOR:** Activates the door sensor which turns on the dome lights when a door is open.
- **ON:** Turns on the dome lights.

Using the monitor menu

You can make your own display or sound adjustments using the menu.

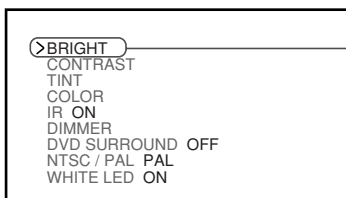
- For the adjustable items, see the next page.

*The Remote controller—RM-RK230 has two MENU buttons.
In this section, using MENU button at MONITOR CONTROL.*



Basic procedure

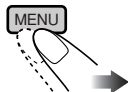
1 Call up the menu.



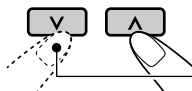
Current menu item

Menu selection goes off if other operations are done or no operation is done for about 5 seconds.

2 Select an item you want to adjust.



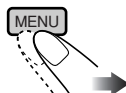
3 Adjust the level of the selected item (or select an appropriate setting for the selected item).



Not used for changing the "DVD SURROUND" setting.

4 Exit from the menu.

Press the button repeatedly until the menu is erased.



Adjustable items on the monitor menu

BRIGHT:	Adjust this if the picture is too bright or too dark. <ul style="list-style-type: none"> Adjustable range: -10 to +11 Initial level: 0 (center)
CONTRAST:	Control the degree of difference between the lightest and darkest parts of the picture. <ul style="list-style-type: none"> Adjustable range: -10 to +11 Initial level: 0 (center)
TINT:	Adjust this if the human skin color is unnatural. <ul style="list-style-type: none"> Adjustable range: -10 to +11 Initial level: 0 (center)
COLOR:	Adjust the color of the picture—lighter or darker. <ul style="list-style-type: none"> Adjustable range: -10 to +11 Initial level: 0 (center)
IR*:	Set to “ON” when you listen to the playback sounds using the cordless headphones. <ul style="list-style-type: none"> Selectable settings: ON, OFF Initial setting: ON
DIMMER:	Adjust the light of the screen and the white LED when you turn on the headlights. <ul style="list-style-type: none"> Adjustable range: -5 to +5 Initial level: 0 (center)
DVD SURROUND:	This function allows you to get a surround effect from your stereo system. When connecting a receiver incompatible with the multi-channel sources, you can enjoy the virtual surround sound with your 2-channel stereo system. If you turn off the monitor, the setting is initialized. <ul style="list-style-type: none"> Selectable settings: OFF, ACTION, DRAMA, THEATER <ul style="list-style-type: none"> ACTION: Suitable for action movies and sports programs. DRAMA: Creates natural and warm sound. Enjoy movies in a relaxed mood. THEATER: Enjoy sound effects like in a major theater. Initial setting: OFF
NTSC/PAL:	Select the color system to match to the incoming signals. <ul style="list-style-type: none"> Selectable settings: PAL, NTSC Initial setting: PAL Turn off then on the power to activate a new setting when you change the setting.
WHITE LED:	Light on or off the white LED when you turn on the monitor. <ul style="list-style-type: none"> Selectable settings: ON, OFF Initial setting: ON

* Turn off the headphones before changing the “IR” setting.

Changing the aspect ratio

You can select an appropriate aspect ratio for the playback video signals.

Basic procedure

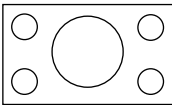
Each time you press the button, aspect ratio change.



Changeable aspect ratio

When incoming 16:9 video signal:

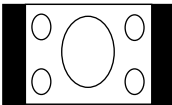
FULL:



Pictures are fully shown on the screen.

- In some cases, the black bars may be shown at the top and bottom sides of the screen.

NORMAL:



Pictures are reduced horizontally.

- The black bars will be shown at the left and right sides of the screen.
- In some cases, the black bars may be shown also at the top and bottom sides of the screen.

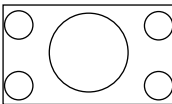
JUST:



The middle of pictures are reduced horizontally, and the left and right side of the picture enlarged horizontally.

- In some cases, the black bars may be shown at the top and bottom sides of the screen.

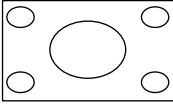
ZOOM:



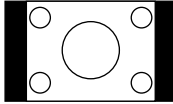
Pictures are enlarged on the screen so that no black bars will be shown on the screen. (The entire picture cannot be shown on the screen.)

To be continued....

When incoming 4:3 video signal:

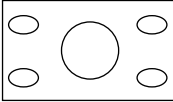
FULL:

Pictures are enlarged horizontally and are fully shown on the screen.

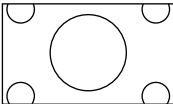
NORMAL:

Pictures are shown at the center of the screen.

- The black bars will be shown at the left and right sides of the screen.

JUST:

Pictures are enlarged horizontally. The extension ratio increases toward the both sides of the screen.

ZOOM:

Pictures are enlarged on the screen so that no black bars will be shown on the screen. (The entire picture cannot be shown on the screen.)

Playable discs

Discs you can play

You can play back the following discs—12 cm and 8 cm—on the built-in DVD player:

- **DVD Video:** Recorded in the PAL color system with Region Code “2” (see below).
 - DVD-R/DVD-RW recorded in the DVD Video format can also be played (see page 33).
- **Video CD (VCD)/audio CD**
- **MP3/WMA/JPEG:** Recorded either in CD-R/CD-RW or DVD-R/DVD-RW/DVD-ROM.
 - CD-R/CD-RW: Compliant with ISO 9660 Level 1, ISO 9660 Level 2, Romeo, and Joliet.
 - DVD-R/DVD-RW/DVD-ROM: Compliant with UDF-Bridge Format*1.

On some discs, the actual operations may be different from what is explained in this manual.

Discs cannot be played back

DVD-Audio, DVD-ROM (data), DVD-RAM, DVD-R/DVD-RW recorded in the DVD-VR format, CD-ROM, CD-I (CD-I Ready), Photo CD, etc.

- Playing back these discs will generate noise and damage the speakers.

Note on Region Code:

DVD players and DVD Video discs have their own Region Code numbers. This unit can only play back DVD discs whose Region Code numbers include “2.”

Examples:



If you insert a DVD Video disc of an incorrect Region Code

“REGION CODE ERROR!” appears on the screen. The disc will eject automatically.

Caution for DualDisc playback

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

Digital audio formats

The unit can play back the following digital audio formats.

Linear PCM: Uncompressed digital audio, the same format used for CDs and most studio masters.

Dolby Digital *2: Compressed digital audio, developed by Dolby Laboratories, which enables multi-channel encode to create the realistic surround sound.

DTS *3 (Digital Theater Systems):

Compressed digital audio, developed by Digital Theater Systems, Inc., which enables multi-channel like Dolby Digital. As the compression ratio is lower than for Dolby Digital, it provides wider dynamic range and better separation.

MPEG Audio: Another compressed digital audio which also enables multi-channel encode to create the realistic surround sound. However, this System downmix the multi-channel signals into 2 channels (decoded PCM) and play it back.

*1 A hybrid file system used to provide compatibility with ISO 9660 for accessing any type of files on the disc. (UDF stands for Universal Disk Format.)

*2 Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

*3 “DTS” and “DTS 2.0 + Digital Out” are trademarks of Digital Theater Systems, Inc.

“DVD Logo” is a trademark of DVD Format/Logo Licensing Corporation registered in the US, Japan and other countries.

Disc operations

Playing a disc

The disc type is automatically detected, and playback starts automatically (for DVD: automatic start depends on its internal program).

If the current disc is an audio CD, CD Text, MP3/WMA, JPEG, or VCD without PBC, all tracks will be played repeatedly until you change the source or eject the disc.

- If a title list or disc menu appears while playing a DVD or VCD with PBC, see “Disc menu operations” on page 22.

The following marks are used to indicate the playable discs....



DVD Video



Video CD with PBC



Video CD
with/without PBC



Audio CD/
CD Text



MP3/WMA disc



JPEG disc



All discs listed here

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

- For DVD playback, you can change the setup menu setting as you like. (See pages 28 – 30.)
- For DVD/CD playback, using the remote controller is more attractive. You can enjoy more functions.

If “⊘” appears on the monitor when pressing a button, the disc cannot accept an operation you have tried to do.

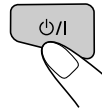
- In some cases, without showing “⊘,” operations will not be accepted.

Starting playback

1 Open the liquid crystal panel.

- You can play a disc even if the monitor is closed.

2 Turn on the power.



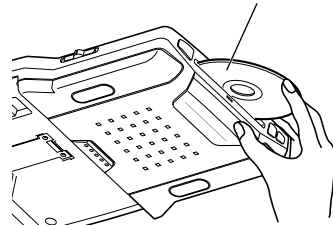
Monitor



Remote control



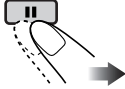
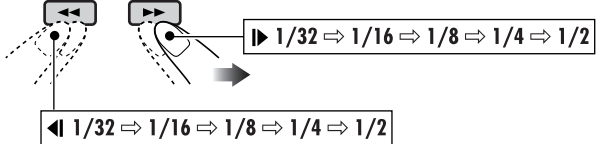






3 Insert a disc into the loading slot.

Playback (shining) side facing down



- When a disc is inserted into the loading slot, the power comes on, then “DISC” is selected as the playback source automatically.

Basic operations

Operations	Next operation
<p>To stop play temporarily</p> 	<p>Playback pauses.</p> <ul style="list-style-type: none"> For JPEG discs: pressing ENTER will also pause the picture on the monitor.  <hr/> <p>A still picture appears.</p> <p>(A) Frame by frame playback</p>  <p>(B) Slow motion playback</p>  <ul style="list-style-type: none"> No sound comes out during Slow Motion Playback. When playing a VCD, Reverse Slow Motion Playback is prohibited. <p>To resume normal play:</p> 
<p>To replay the previous scenes—One Touch Replay</p> 	<p>The playback position moves back about 10 seconds before the current position.</p>  <ul style="list-style-type: none"> This function works only within the same title. For some DVDs, this function does not work.
<p>To stop playback</p> 	<p>When you start playback again, playback starts from where it has been stopped (Resume play).</p>  <hr/> <p>When you start playback again, playback starts from the beginning of the last playing track.</p> 

• During play, on-screen guide icons appear on the monitor for a while (see page 35).

To eject the disc



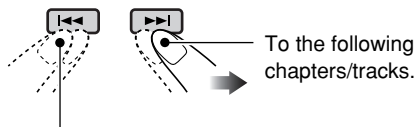
You can eject the disc even when the monitor is turned off.

To be continued....

To go to the next or previous chapters/tracks



- For DVD: During play or pause



To go back to the beginning of the current chapter/track, then the previous chapters/tracks.

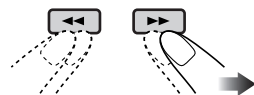
To fast-forward or reverse the chapter /track



Reverses.

* The search speed changes to x2 ⇔ x10 for all discs (DVD, VCD, CD), but the information shown on the monitor is only for DVD/VCD.

To forward or reverse search the chapter /track



The information shown is only for DVD/VCD:

▶▶ x2 ⇔ x5 ⇔ x10 ⇔ x20 ⇔ x60

◀◀ x2 ⇔ x5 ⇔ x10 ⇔ x20 ⇔ x60

- To resume normal speed



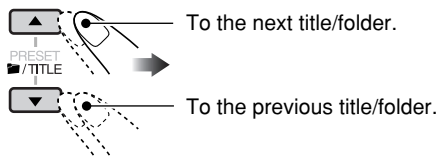
To locate a particular title /chapter / track directly



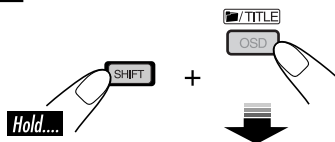
- For DVD: During play or pause—select a chapter. During stop—select a title.
- For VCD: While PBC (see page 22) is not in use.
- For MP3/WMA/JPEG: Select a track within the same folder.

Select the number corresponding to the item you want (see page 9).

To locate a title /folder



To locate a particular title / folder



Within 10 seconds, press the number buttons (see page 9).

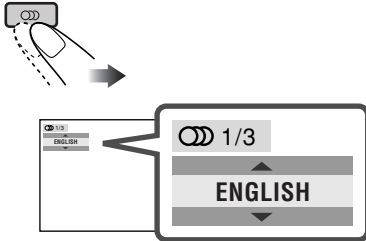
- For MP3/WMA/JPEG discs: To directly select the folders using the number button(s), it is required that folders be assigned 2 digit numbers at the beginning of their folder names—01, 02, 03, and so on.

DVD/VCD/JPEG special functions

Selecting audio languages

For DVD:

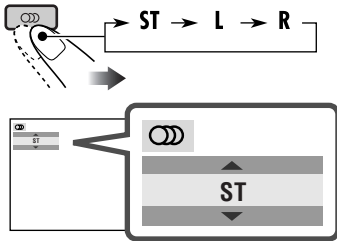
You can select the language to listen to if the disc has multiple audio languages.



Ex.: When the disc has 3 options

For VCD:

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



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

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

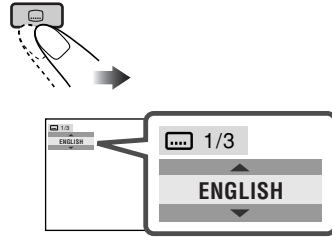
R: To listen to the R (right) audio channel.

Selecting subtitles

You can select the language of the subtitle to be shown on the monitor.



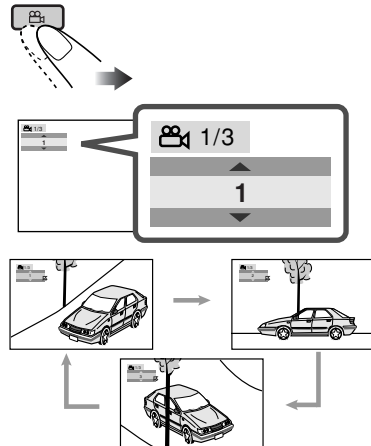
- You can set the initial subtitle language using the setup menu (see page 29).



Ex.: When the disc has 3 options

Selecting multi-angle views

You can view the same scene at different angles if the disc has multi-angle views.



Ex.: When the disc has 3 multi-angle views

- For some DVDs and VCDs, changing the subtitle language, audio language (or audio channel) without using the disc menu is prohibited.

Disc menu operations

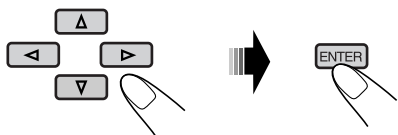
Menu-driven playback is possible while playing back a DVD with menu-driven features or a VCD with the PBC (PlayBack Control).

While playing a DVD



A title list or disc menu will appear on the monitor.

2 Select the item you want on the menu.



Selected item starts playback.

- On some discs, you can also select items using the corresponding number buttons.

While playing a VCD



- When a list of items is displayed on the monitor.



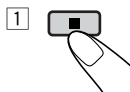
- To select a number greater than 9, see “How to select a number” on page 9.

To return to the previous menus



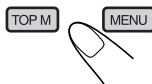
- For some discs, you can also move between the menus by pressing **◀◀ / ▶▶**.

Canceling the PBC playback

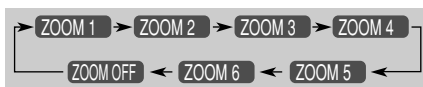
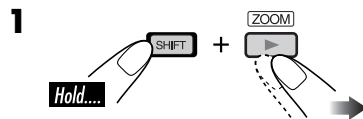


- 2 Select a track to start normal playback using the number buttons (see page 9).

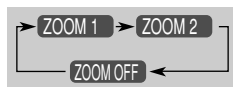
To resume the PBC function



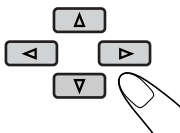
Zoom in



- For JPEG disc (effective only when pausing):



2 Move the zoomed-in portion.



- For JPEG files:

You cannot move the zoomed-in position when the entire picture is displayed on the monitor.

To cancel zoom, select “ZOOM OFF” in step 1.

On-Screen disc operations

About the On-Screen Bar

You can check the disc information and use some functions through the on-screen bar.

- For audio CD, CD Text, and MP3/WMA/JPEG disc you can also use the control screen and list screen (see pages 26 and 27).

On-Screen bars



* Only for DTS audio CD

- 1 Disc type
 - 2 Audio signal format type (for DVD and DTS audio CD)
 - PBC (only for VCD)
- 3 Playback information
 - T02-C03** Current title/chapter
 - TRACK 01** Current track
 - TOTAL** Elapsed playing time of the disc
 - T. REM** Remaining disc time (for VCD)/remaining title time (for DVD)
 - TIME** Elapsed playing time of the current chapter/track
 - REM** Remaining time of the current chapter/track
- 4 Playback condition
 - Playback
 - Forward/reverse search
 - Forward/reverse slow-motion
 - Pause
 - Stop
- 5 Operation icons
 - TIME** Time indication
 - Time Search—Enter the elapsed playing time of the current title or of the disc.
 - TITLE** Title Search
 - CHAP** Chapter Search
 - TRACK** Track Search
 - Change the audio language or audio channel.
 - Change the subtitle language.
 - Change the view angle.
 - OFF** Repeat play (for DVD)
 - REPEAT** Repeat play (for other discs)
 - INTRO** Intro play
 - RANDOM** Random play
- 6 Current playback mode

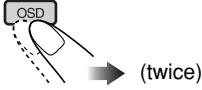
To be continued...

Basic on-screen bar operations

1 Display the on-screen bar.



- For DVD/VCD:

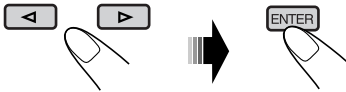


- For other discs:

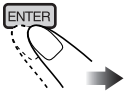


When a JPEG disc is loaded, skip to step 3.

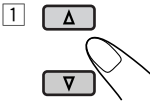
2 Select an item.



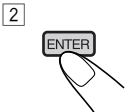
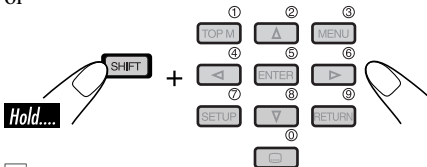
3 Make a selection.



- If pop-up menu appears....



or



To erase the on-screen bar



- The on-screen bar for a CD or MP3/WMA/JPEG disc automatically disappears in a few seconds after the last operation.
- The selectable options for Repeat/Intro/Random plays:

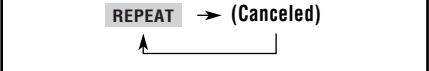
OFF You can repeat the current title or chapter.

DVD (during play or pause):



REPEAT You can repeat the current track (except for JPEG) or the tracks in the current folder (only for MP3/WMA/JPEG).

VCD (while PBC is not in use):



MP3/WMA:



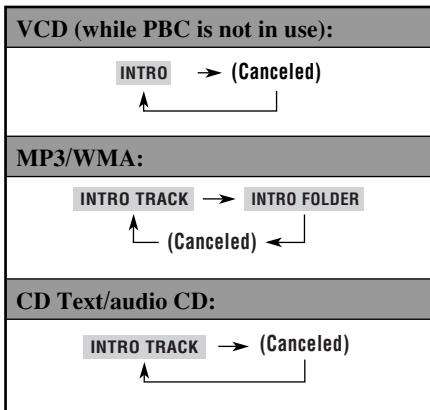
JPEG:



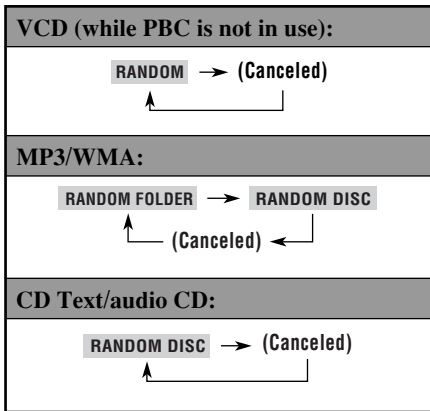
CD Text/audio CD:



INTRO You can play the first 15 seconds of all tracks in the disc, or in the current folder (only for MP3/WMA).



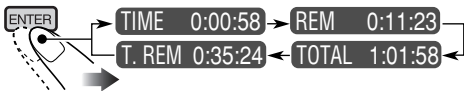
RANDOM You can randomly play all tracks in the disc, or in the current folder (only for MP3/WMA).



Refer also page 24 for the following operations.

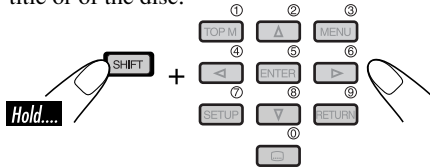
To change the time information

- 1 Select **TIME**.
- 2 Change the time information.



To search for a particular point by playing time

- For VCD: while PBC is not in use.
- 1 Select **▶**.
 - 2 Enter the elapsed playing time of the current title or of the disc.



- Ex.:
- To enter 1 (hours): 02 (minutes): 00 (seconds), press 1, 0, 2, 0, then 0.
 - To enter 54 (minutes): 00 (seconds), press 0, 5, 4, 0, then 0.

- It is always required to enter the hour digit (even “0” hour), but it is not required to enter trailing zeros (the last two digits in the examples above).
- To correct a misentry, press...

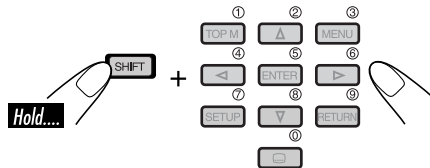
- You can also specify the elapsed playing time by using Δ / ∇ / \triangleleft / \triangleright .

- 3 Finish the procedure.



To search for a particular title/chapter/track

- 1 Select **TITLE▶**, **CHAP▶**, or **TRACK▶**.
- 2 Enter the number.



- To correct a misentry, press the number button until the correct number is entered.

- 3 Finish the procedure.



Basic control screen operations

You can search for and play the desired items through the control screen.

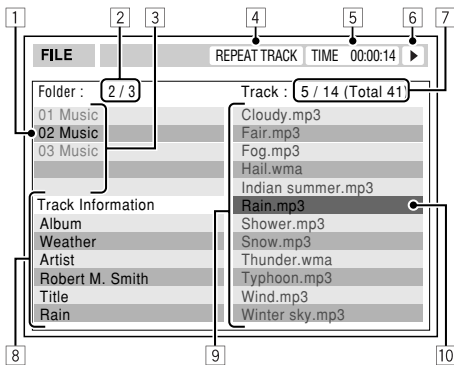
For MP3/WMA/CD Text/audio CD:

The control screen automatically appears on the monitor when you insert a disc.

JPEG:

Press TOP M (menu), MENU, or ■. Playback stops and the control screen appears.

MP3/WMA/JPEG control screen

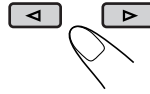


Ex.: Control screen for MP3/WMA

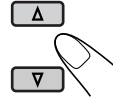
- 1 Current folder
- 2 Current folder number/total folder number
- 3 Folder list
- 4 Selected playback mode
- 5 Elapsed playing time of the current track (only for MP3/WMA)
- 6 Operation mode icon (only for MP3/WMA)
▶ (play), ■ (stop), || (pause), ►► (fast-forward), ◀◀ (reverse)
- 7 Current track number/total number of tracks in the current folder (total number of tracks on the disc)
- 8 Track information (only for MP3/WMA)
- 9 Track list
- 10 Current track (highlighted bar)

To select a folder or track

- 1 Select "Folder" column or "Track" column on the control screen.



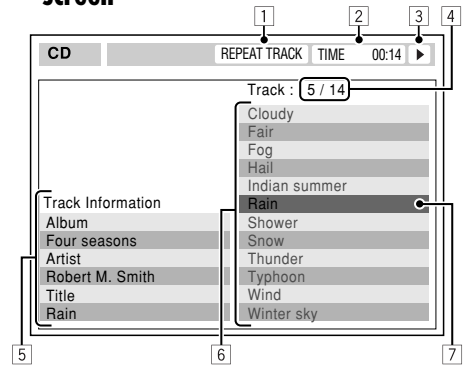
- 2 Select a folder or track.



- If playback does not start, press ▶ or ENTER.

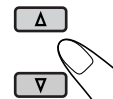
- For JPEG discs: Pressing ENTER will pause the selected picture on the monitor.

CD Text/audio CD control screen



- 1 Selected playback mode
- 2 Elapsed playing time of the current track
- 3 Operation mode icon
▶ (play), ■ (stop), || (pause), ►► (fast-forward), ◀◀ (reverse)
- 4 Current track number/total number of tracks on the disc
- 5 Track information
- 6 Track list
- 7 Current track (highlighted bar)

To select a track



- If playback does not start, press ▶ or ENTER.

List screen operations

You can display the folder list/track list before starting play. On this list, you can confirm the contents and start playing a disc.

Folder/track list screens



Folder list (MP3/WMA/JPEG)

1	2	3
Folder : 153/240	Track 154/198	Page : 4/6
fol130	fol140	fol150
fol131	fol141	fol151
fol132	fol142	fol152
fol133	fol143	fol153
fol134	fol144	fol154
fol135	fol145	fol155
fol136	fol146	fol156
fol137	fol147	fol157
fol138	fol148	fol158
fol139	fol149	fol159
		fo160
		fo161
		fo162
		fo163
		fo164
		fo165
		fo166
		fo167
		fo168
		fo169
		fo169
		fo169

4

Ex.: Folder list for MP3/WMA

Track list (MP3/WMA/JPEG/CD Text/audio CD)

1	2	3
Folder : 153/240	Track 154/198	Page : 4/6
file0131.mp3	file0141.mp3	file0151.wma
file0132.mp3	file0142.mp3	file0152.mp3
file0133.wma	file0143.mp3	file0153.wma
file0134.mp3	file0144.mp3	file0154.mp3
file0135.mp3	file0145.wma	file0155.mp3
file0136.wma	file0146.mp3	file0156.mp3
file0137.wma	file0147.wma	file0157.mp3
file0138.mp3	file0148.mp3	file0158.wma
file0139.mp3	file0149.wma	file0159.wma
file0140.wma	file0150.wma	file0160.wma
		file0161.wma
		file0162.mp3
		file0163.wma
		file0164.mp3
		file0165.wma
		file0166.wma
		file0167.wma
		file0168.wma
		file0169.mp3
		file0170.wma

4

Ex.: Track list for MP3/WMA

- 1 Current folder number/total folder number (only for MP3/WMA/JPEG)
- 2 Current track number/total number of tracks in the current folder (for MP3/WMA/JPEG) or in the disc (for CD Text/audio CD)
- 3 Current page/total number of the pages included in the list
- 4 Current folder/track (highlighted bar)

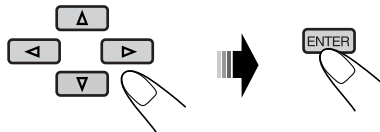
For MP3/WMA/JPEG:

While stop...

1 Display the folder list.

Each time you press the button, the list screen comes on and goes off.

2 Select a folder on the list.

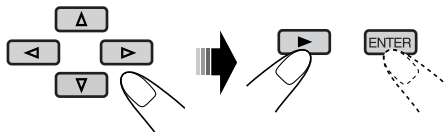


The track list of the selected folder appears.

To go back to the folder list



3 Select a track on the list.



- For JPEG discs: Pressing ENTER will pause the selected picture on the monitor.

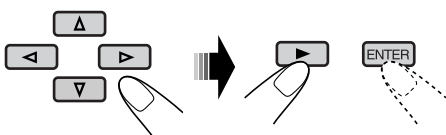
For CD Text/audio CD:

While stop...

1 Display the track list.

Each time you press the button, the list screen comes on and goes off.

2 Select a track on the list.



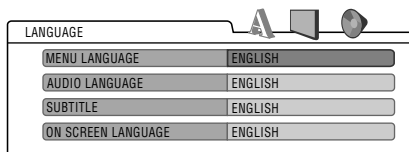
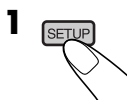
DVD setup menu

You can store the initial disc playback status.

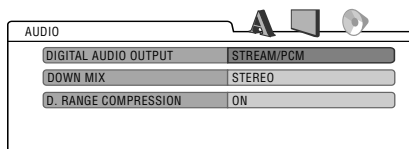
- While playing, no change can be made on the setup menu.
- When shipped from the factory, the on-screen language is set to English. To change the language, see page 29.

Basic setting procedure

While stop...

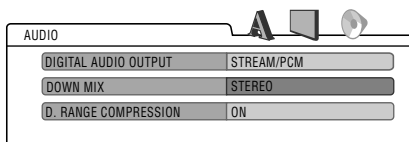
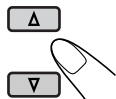


2

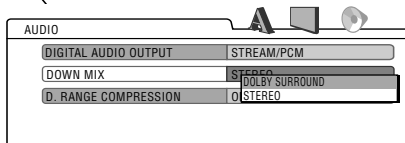


Ex.: When selecting the "AUDIO" menu

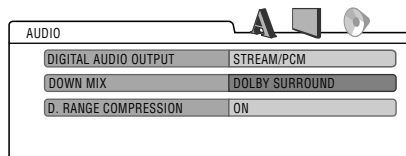
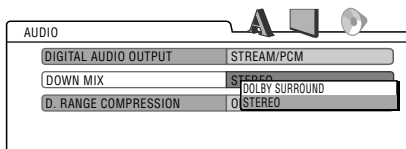
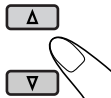
3 Select an item you want to set up.



Ex.: When selecting "DOWN MIX"



5 Select an option.



To set other items on the same menu

Repeat steps **3** to **6**.

To set other items on other menus

Repeat steps **2** to **6**.

To return to the normal screen





LANGUAGE menu

Item	Contents
MENU LANGUAGE	Select the initial disc menu language.
AUDIO LANGUAGE	Select the initial audio language.
SUBTITLE	Select the initial subtitle language or erase the subtitle (OFF).
ON SCREEN LANGUAGE	Select the language for the setup menu and some indications shown on the monitor.

- For the LANGUAGE settings, see also the language codes list on page 32.



PICTURE menu

Item	Contents
<p>MONITOR TYPE</p> <p>16:9 4:3 LETTER BOX</p> <p>4:3 PAN SCAN</p>	<p>Select the monitor type to watch a wide screen picture on your external monitor.</p> <ul style="list-style-type: none"> • 16:9 : Select this when the aspect ratio of your monitor is 16:9. • 4:3 LETTER BOX : Select this when the aspect ratio of your monitor is 4:3. While viewing a wide screen picture, the black bars appear on the top and the bottom of the screen. • 4:3 PAN SCAN : Select this when the aspect ratio of your monitor is 4:3. While viewing a wide screen picture, the black bars do not appear; however, the left and right edges of the pictures will not be shown on the screen.
<p>OSD POSITION</p> <p>Position 1 Position 2</p>	<p>Select the on-screen bar position on the monitor.</p> <ul style="list-style-type: none"> • 1 : Higher position • 2 : Lower position (Help screen under the DVD setup menu disappears.)
<p>MP3/JPEG</p>	<p>If both MP3/WMA files and JPEG files are recorded on a disc, you can select which files to play.</p> <ul style="list-style-type: none"> • MP3 : Select this for playing MP3/WMA files. • JPEG : Select this for playing JPEG files. <p>Eject the disc and insert it again to make the new setting effective.</p>

To be continued....



AUDIO menu

Item	Contents
DIGITAL AUDIO OUTPUT	<p>Select the signal format to be emitted through the DIGITAL OUT (Optical) terminal. For details, see page 36.</p> <ul style="list-style-type: none"> • PCM ONLY : Select this when connecting an amplifier or a decoder incompatible with Dolby Digital, DTS, MPEG Audio, or connecting to a recording device. • DOLBY DIGITAL/PCM : Select this when connecting an amplifier or a decoder compatible with Dolby Digital. • STREAM/PCM : Select this when connecting an amplifier or a decoder compatible with Dolby Digital, DTS, or MPEG Audio.
DOWN MIX	<p>When playing back a multi-channel DVD disc, this setting affects the signals reproduced through the analog terminals—AV-OUT and cordless headphones (and through the DIGITAL OUT terminal when “PCM ONLY” is selected for “DIGITAL AUDIO OUTPUT”).</p> <ul style="list-style-type: none"> • DOLBY SURROUND : Select this when you want to enjoy multi-channel surround audio by connecting an amplifier compatible with Dolby Surround to this monitor. • STEREO : Normally select this.
D. (Dynamic) RANGE COMPRESSION	<p>You can enjoy a powerful sound at low or middle volume levels while playing a Dolby Digital software.</p> <ul style="list-style-type: none"> • AUTO : Select this to apply the effect to multi-channel encoded software (excluding 1-channel and 2-channel software). • ON : Select this to always use this function.

■ To prevent damage to the exterior

- Do not apply pesticides, benzene, thinner or other volatile substances to the monitor. The cabinet surface primarily consists of plastic materials.
- Do not wipe with benzene, thinner or similar substances because this will result in discoloration or removal of the paint.
- When a cloth with a cleansing chemical is used, follow the caution points.
 - Do not leave the unit in contact with rubber or vinyl products for long periods of time.
 - Do not use cleansers which have polishing granules because this could damage the cabinet.

■ Clean off dirt by wiping lightly with a soft cloth

When the cabinet is very dirty, wipe with a well-wrung cloth dipped in a kitchen cleanser (neutral) thinned by water and then go over the same surface with a dry cloth. (Since there is the possibility of water drops getting inside of the unit, do not directly apply cleanser to the surface.)

■ Moisture condensation

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

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

■ How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

Center holder



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

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

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

■ To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



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

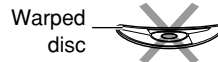
■ To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.



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

Do not use the following discs:



Warped disc



Sticker

Sticker residue



Disc

Stick-on label

Language codes

Code	Language	Code	Language	Code	Language
AA	Afar	IK	Inupiak	RN	Kirundi
AB	Abkhazian	IN	Indonesian	RO	Rumanian
AF	Afrikaans	IS	Icelandic	RW	Kinyarwanda
AM	Ameharic	IW	Hebrew	SA	Sanskrit
AR	Arabic	JI	Yiddish	SD	Sindhi
AS	Assamese	JW	Javanese	SG	Sangho
AY	Aymara	KA	Georgian	SH	Serbo-Croatian
AZ	Azerbaijani	KK	Kazakh	SI	Singhalese
BA	Bashkir	KL	Greenlandic	SK	Slovak
BE	Byelorussian	KM	Cambodian	SL	Slovenian
BG	Bulgarian	KN	Kannada	SM	Samoan
BH	Bihari	KO	Korean (KOR)	SN	Shona
BI	Bislama	KS	Kashmiri	SO	Somali
BN	Bengali, Bangla	KU	Kurdish	SQ	Albanian
BO	Tibetan	KY	Kirghiz	SR	Serbian
BR	Breton	LA	Latin	SS	Siswati
CA	Catalan	LN	Lingala	ST	Sesotho
CO	Corsican	LO	Laothian	SU	Sundanese
CS	Czech	LT	Lithuanian	SW	Swahili
CY	Welsh	LV	Latvian, Lettish	TA	Tamil
DZ	Bhutani	MG	Malagasy	TE	Telugu
EL	Greek	MI	Maori	TG	Tajik
EO	Esperanto	MK	Macedonian	TH	Thai
ET	Estonian	ML	Malayalam	TI	Tigrinya
EU	Basque	MN	Mongolian	TK	Turkmen
FA	Persian	MO	Moldavian	TL	Tagalog
FI	Finnish	MR	Marathi	TN	Setswana
FJ	Fiji	MS	Malay (MAY)	TO	Tonga
FO	Faroese	MT	Maltese	TR	Turkish
FY	Frisian	MY	Burmese	TS	Tsonga
GA	Irish	NA	Nauru	TT	Tatar
GD	Scots Gaelic	NE	Nepali	TW	Twi
GL	Galician	NO	Norwegian	UK	Ukrainian
GN	Guarani	OC	Occitan	UR	Urdu
GU	Gujarati	OM	(Afan) Oromo	UZ	Uzbek
HA	Hausa	OR	Oriya	VI	Vietnamese
HI	Hindi	PA	Panjabi	VO	Volapuk
HR	Croatian	PL	Polish	WO	Wolof
HU	Hungarian	PS	Pashto, Pushto	XH	Xhosa
HY	Armenian	PT	Portuguese	YO	Yoruba
IA	Interlingua	QU	Quechua	ZU	Zulu
IE	Interlingue	RM	Rhaeto-Romance		

More about this monitor

Basic operations

Turning off the power

- If you turn off the power while listening to a disc, disc play will start automatically, next time you turn on the power.

Disc operations

General

- In this manual, words “track” and “file” are interchangeably used when referring to MP3/WMA/JPEG files and their file names.
- This unit can also playback 8 cm discs.
- This unit can only playback audio CD (CD-DA) files if different type of files are recorded in the same disc.
 - The first track will be skipped if a different type of file is detected first.
- When a disc has been loaded, selecting “DISC” for the playback source starts disc play.

Starting playback

- When a disc is inserted upside down, “NO DISC” appears on the screen, then the disc will automatically eject.
- You can play a disc even if the monitor is closed.

Basic operations

- No sound comes out during slow motion playback. When playing a VCD, reverse slow motion playback is prohibited.
- One Touch Replay works only within the same title. (For some DVDs, this function does not work.)
- When playing a DVD/VCD, no sound comes out during Search.
- Reverse search stops automatically when it reaches the beginning of the disc. Playback resumes at normal speed.

DVD/VCD/JPEG special functions

- For some DVDs and VCDs, changing the subtitle language, audio language (or audio channel) without using the disc menu is prohibited.
- While zoomed in, the picture may look coarse.

Playing a DVD-R/DVD-RW or CD-R/CD-RW

- Use only “finalized” discs.
- This unit can play back only the files of the same type which is first detected if a disc includes both audio CD (CD-DA) files and MP3/WMA/JPEG files.
- This unit can play back either MP3/WMA files or JPEG files if a disc includes both kind of files. Set the playback file type on DVD setup menu (page 29) before playing back a disc containing both kind of files.
- Only for CD-R/CD-RW: This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some DVD-R/DVD-RW or CD-R/CD-RW may not play back on this unit because of their disc characteristics, and for the following causes:
 - Discs are dirty or scratched.
 - Moisture condensation occurs on the lens inside the unit.
 - The pickup lens inside the unit is dirty.
 - CD-R/CD-RW on which the files are written with “Packet Write” method.
 - DVD-R/DVD-RW which are not written in UDF-Bridge Format (eg. UDF format or ISO format).
 - There are improper recording conditions (missing data, etc.) or media conditions (stain, scratch, warp, etc.).
- DVD-RW/CD-RW may require a longer readout time since the reflectance of DVD-RW/CD-RW is lower than that of regular discs.

To be continued...

- Do not use the following DVD-R/DVD-RW or CD-R/CD-RW:
 - Discs with stickers, labels, or protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.
 Using these discs under high temperatures or high humidities may cause malfunctions or damages to discs.
- This unit can play back the files recorded in VBR (variable bit rate).
The files recorded in VBR have a discrepancy in elapsed time display, and do not show the actual elapsed time. Especially, after performing the search function, this difference becomes noticeable.
- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded in an unappropriated format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded with lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA files copy-protected with DRM.
 - WMA files recorded with MBR (Multiple Bit Rate) format.
 - Files which have the data such as WAVE, ATRAC3, etc.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower) recorded in either CD-R/CD-RW or in DVD-R/DVD-RW.
- This unit can show the names of albums, artists (performer), and ID3 Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate: MP3: 32 kbps — 320 kbps
WMA: 32 kbps — 192 kbps
 - Sampling frequency:
 - 48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
 - 24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
 - 48 kHz, 44.1 kHz, 32 kHz (for WMA)
 - Disc format: ISO 9660 Level 1/ Level 2, Romeo, Joliet, Windows long file name
- The maximum number of characters for file/ folder names vary among the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
 - ISO 9660 Level 1: up to 12 characters
 - ISO 9660 Level 2: up to 31 characters
 - Romeo: up to 128 characters
 - Joliet: up to 64 characters
 - Windows long file name: up to 128 characters
- This unit can recognize the total of 1100 files, 250 folders (maximum of 999 files per folder).

Playing a JPEG disc

- This unit can play back JPEG files with the extension code <.jpg> (regardless of the letter case—upper/lower) recorded in either CD-R/CD-RW or in DVD-R/DVD-RW.
- It is recommended that you record a file at 640 x 480 resolution. (If a file has been recorded at a resolution of more than 640 x 480, it will take a long time to be shown.)
- This System can play only baseline JPEG files. Progressive JPEG files or lossless JPEG files cannot be played.
 - Baseline JPEG format: Used for digital cameras, web, etc.
 - Progressive JPEG format: Used for web.
 - Lossless JPEG format: An old type and rarely used now.
- If progressive or lossless JPEG files are played back, a black screen appears. In this case, stop playback and select a baseline JPEG file. Note that it may take a long time to select another file.

- Even if you try to pause the current picture, it may be skipped, then the next picture will pause.
- This unit can recognize the total of 1100 files, 250 folders (maximum of 999 files per folder).

Changing the source

- If you change the source, playback also stops (without ejecting the disc).
Next time you select “DISC” for the playback source, disc play starts automatically.

Ejecting a disc










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

DVD setup menu

- When the language you have selected is not recorded on a disc, the original language is automatically used as the initial language. In addition, for some discs, the initial languages settings will not work as you set due to their internal disc programming.
- While playing (or pausing), you cannot change these languages.
After you change any of these language settings, eject the disc and insert it (or another disc) again so that your setting takes effect.
- When you select “16:9” for a picture whose aspect ratio is 4:3, the picture slightly changes due to the process for converting the picture width.
- Even if “4:3 PAN SCAN” is selected, the screen size may become “4:3 LETTER BOX” with some DVDs. This depends on how they are recorded.

On-screen guide icons

During play, the following guide icons may appear for a while on the monitor.

-  : Appears at the beginning of a scene containing multi-audio languages (for DVD only).
-  : Appears at the beginning of a scene containing multi-subtitle languages (for DVD only).
-  : Appears at the beginning of a scene containing multi-angle views (for DVD only).
-  : Play
-  : Pause
-  : Forward slow motion playback (for DVD and VCD only)
-  : Reverse slow motion playback (for DVD only)
-  : Forward search
-  : Reverse search

About sounds reproduced through the terminals

- Through the analog terminals (AV-OUT/cordless headphones): 2-channel signal is emitted. When playing a multi-channel encoded disc, multi-channel signals are downmixed. (AUDIO—DOWN MIX: see page 30.)
- Through DIGITAL OUT (optical):
Digital signals (Linear PCM, Dolby Digital, DTS, MPEG Audio) are emitted through this terminal. (For more details, see table below.)
To reproduce multi-channel sounds such as Dolby Digital, DTS, and MPEG Audio, connect an amplifier or a decoder compatible with these multi-channel sources to this terminal, and set “DIGITAL AUDIO OUTPUT” correctly. (See page 30.)

Output signals through the DIGITAL OUT terminal

Output signals are different depending on the “DIGITAL AUDIO OUTPUT” setting on the setup menu (see page 30).

DIGITAL AUDIO OUTPUT Playback Disc	Output Signals		
	STREAM/PCM	DOLBY DIGITAL/PCM	PCM ONLY
DVD	48 kHz, 16/20/24 bits Linear PCM 96 kHz, Linear PCM	48 kHz, 16 bits stereo Linear PCM	
with DTS	DTS bitstream	48 kHz, 16 bits stereo Linear PCM	
with Dolby Digital	Dolby Digital bitstream		48 kHz, 16 bits stereo Linear PCM
with MPEG Audio	MPEG bitstream	48 kHz, 16 bits Linear PCM	
Audio CD, Video CD	44.1 kHz, 16 bits stereo Linear PCM		
Audio CD with DTS	DTS bitstream	44.1 kHz, 16 bits stereo Linear PCM	
MP3/WMA	32/44.1/48 kHz, 16 bits Linear PCM		

Troubleshooting

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

	Symptoms	Causes	Remedies
General	<ul style="list-style-type: none"> Colored spots (red, blue and green) appear on the screen. 	This is a characteristic of liquid crystal panels and is not a malfunction.	See "Note" on page 6.
	<ul style="list-style-type: none"> No picture appears and sound is not heard. 	The cord is not connected correctly to the external component.	Connect the cord correctly.
		Correct input mode is not selected.	Select the correct input mode.
	<ul style="list-style-type: none"> The unit does not work at all. 	The built-in microcomputer may have functioned incorrectly due to noise, etc.	Reset the unit (see page 4).
	<ul style="list-style-type: none"> Remote controller does not work. Cordless headphones do not work. 	The battery has lost its charge.	Install a new battery.
		The sensor is exposed to strong light.	Do not expose the sensor to strong light.
<ul style="list-style-type: none"> Howling occurs from the speakers or the headphones. 	It may be caused by a camcorder connected to the monitor.	Camcorder is now in recording mode. Deactivate the recording mode.	
Disc playback	<ul style="list-style-type: none"> "NO DISC" appears on the screen. 	Disc is inserted upside down.	Insert the disc correctly.
	<ul style="list-style-type: none"> CD-R/CD-RW or DVD-R/DVD-RW cannot be played back. Tracks on the CD-R/CD-RW or DVD-R/DVD-RW cannot be skipped. 	CD-R/CD-RW or DVD-R/DVD-RW is not finalized.	<ul style="list-style-type: none"> Insert a finalized CD-R/CD-RW or DVD-R/DVD-RW. Finalize the CD-R/CD-RW or DVD-R/DVD-RW with the component which you used for recording.
		<ul style="list-style-type: none"> The left and right edges of the picture are missing on the screen. 	"4:3 PAN SCAN" is selected when viewing on a conventional TV (aspect ratio 4:3).

	Symptoms	Causes	Remedies
Disc playback	<ul style="list-style-type: none"> • Sound and picture are sometimes interrupted or distorted. 	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.	
	<ul style="list-style-type: none"> • The playback pictures cannot be shown correctly. 	The color system (NTSC/PAL) is not correct.	Set it correctly (see page 14).
MP3/WMA/JPEG playback	<ul style="list-style-type: none"> • Disc cannot be played back. 	No MP3/WMA/JPEG tracks are recorded on the disc.	Change the disc.
		MP3/WMA/JPEG tracks do not have the extension code <.mp3>, <.wma>, or <.jpg> in their file names.	Add the extension code <.mp3>, <.wma>, or <.jpg> to their file names.
		MP3/WMA/JPEG tracks are not recorded in a compliant format.	Change the disc. Record MP3/WMA/JPEG tracks using a compliant application (see page 17).
		MP3/WMA/JPEG tracks are recorded in DVD+R/DVD+RW media.	Change the disc. Record MP3/WMA/JPEG tracks using DVD-R/DVD-RW media.
	<ul style="list-style-type: none"> • Noise is generated. 	The track played back is not an MP3/WMA file (although it has the extension code <.mp3> or <.wma>).	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	<ul style="list-style-type: none"> • A longer readout time is required. 	Readout time varies due to the complexity of the folder/file configuration.	Do not use too many hierarchies and folders.
	<ul style="list-style-type: none"> • Tracks 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 tracks are recorded on the disc.	_____	

Specifications

WIDESCREEN MONITOR

Screen:

9 inch liquid crystal panel

Number of pixel:

336 960 pixels

(480 vertical × 234 horizontal × 3)

Drive method:

TFT (Thin Film Transistor) active matrix format

Cordless audio:

Infrared audio transmitter

L-channel: 2.3 MHz

R-channel: 2.8 MHz

Effective listening angle: 30°

Effective range: 2 m

Color system: NTSC/PAL

Input:

Video: RCA pin × 2 circuits

1 V(p-p), 75 Ω

Audio: RCA pin × 2 circuits

1.5 V(rms)

Output:

Video: RCA pin × 1 circuit

1 V(p-p), 75 Ω

Audio: RCA pin × 1 circuit

1.5 V(rms)

DIGITAL OUT: Optical

DVD/CD PLAYER SECTION

Signal detection system: Non-contact optical pickup (semiconductor laser)

Number of channels: 2 channels (stereo)

Frequency response:

DVD, fs=48 kHz/96 kHz: 16 Hz to 22 000 Hz

VCD, CD: 16 Hz to 20 000 Hz

Dynamic range: 93 dB

Signal-to-noise ratio: 95 dB

Wow and flutter: Less than measurable limit

MP3 (MPEG Audio Layer 3):

Max. Bit Rate: 320 kbps

WMA (Windows Media® Audio):

Max. Bit Rate: 192 kbps

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

Allowable storage temperature:

-20°C to +80°C

Dimensions (W × H × D):

Installation size (approx.):

215 mm × 49 mm × 374 mm

Mass (approx.):

2.9 kg (excluding accessories)

CORDLESS HEADPHONES

Type: Open-air type

Driver unit:

30 mm Mylarcone dynamic speaker

Impedance: 16 Ω

Frequency response: 20 Hz to 20 000 Hz

Infrared wavelength: 850 nm ± 50 nm

Power requirements:

DC 3 V (2.4 V to 3.3 V allowance)

(R03/AAA battery × 2)

Mass (approx.):

170 g (except batteries)

Allowable operating temperature:

-30°C to +65°C

Design and specifications are subject to change without notice.

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



Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

Haben Sie PROBLEME mit dem Betrieb?

Bitte setzen Sie Ihr Gerät zurück

Siehe Seite Zurücksetzen des Geräts

Vous avez des PROBLÈMES de fonctionnement?

Réinitialisez votre appareil

Référez-vous à la page intitulée Comment réinitialiser votre appareil

Hebt u PROBLEMEN met de bediening?

Stel het apparaat terug

Zie de pagina met de paragraaf Het apparaat terugstellen

JVC



EN, GE, FR, NL

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0305MNMDWJEIN

JVC KV-MRD900/KV-MR9010

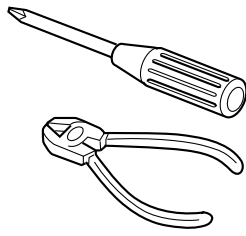
Installation/Connection Manual

Einbau/Anschlußanleitung

Manuel d'installation/raccordement

Handleiding voor installatie/aansluiting

LVT1341-005A
[E]



0305MNMMDWJEIN
EN, GE, FR, NL

ENGLISH

The illustrations of the widescreen monitor used in this manual is of KV-MRD900, unless specified otherwise.

WARNING

Installation requires some special knowledge. Do not install the monitor yourself. Consult a dealer having special knowledge of this kind for safe and reliable installation.

- **DO NOT INSTALL THE MONITOR IN A LOCATION WHICH OBSTRUCTS DRIVING, VISIBILITY, SAFETY DEVICE FUNCTION SUCH AS AIR BAGS OR WHICH IS PROHIBITED BY APPLICABLE LAWS AND REGULATIONS.**

If the monitor is installed in a location which obstructs forward visibility or operation of the air bag or other safety equipment or which interferes with operation of the vehicle, it may cause an accident.

- **NEVER USE BOLTS OR NUTS FROM THE VEHICLE'S SAFETY DEVICES FOR INSTALLATION.**

If bolts or nuts from the steering wheel, brakes or other safety devices are used for installation of the monitor, it may cause an accident.

- **ATTACH THE WIRES CORRECTLY.**

If the wiring is not correctly performed, it may cause a fire or an accident. In particular, be sure to run and secure the lead wire so that it does not get tangled with a screw or the moving portion of a seat rail.

- **USE WITH DC 12 V NEGATIVE GROUND VEHICLES.**

This monitor is only for use in a DC 12 V negative ground vehicle.

It cannot be used in large trucks or diesel vehicles which are DC 24 V vehicles.

If it is used in the wrong type of vehicle, it may cause a fire or accident.

- **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.**

- **Avoid installing the monitor in the following places**

- Where it would hinder your safe driving.
- Where it would be exposed to direct sunlight or heat directly from the heater or placed in an extremely hot place.
- Where it would be subject to rain, water splashes or excessive humidity.
- Where it would be subject to dust.
- Where it would be positioned on an unstable place.
- Where it could damage the car's fittings.
- Where proper ventilation would not be maintained.

CAUTION

Since there may be legal regulations defining the permissible installation locations for the monitor which differ by country or by state, be sure to install the color monitor in a location complying with any such laws.

DEUTSCH

Die Abbildungen des Breitbildmonitors in dieser Anleitung zeigen den KV-MRD900, wenn nicht anders angegeben.

WARNUNGEN

Die Installation erfordert entsprechende Fachkenntnisse.

Installieren Sie das Monitorsystem nicht selbst. Wenden Sie sich für eine sichere und fachgerechte Installation an einen Vertragshändler.

- **DEN MONITOR NICHT AN EINEM ORT ANBRINGEN, WO ER BEIM FAHREN STÖRT ODER DIE SICHT BESCHRÄNKT, DIE FUNKTION VON SICHERHEITSEINRICHTUNGEN WIE AIRBAGS BEHINDERT ODER WO ÖRTLICH GELTENDE GESETZE ODER VORSCHRIFTEN DEN EINBAU VERBIETEN.**

Wenn Sie den Monitor an einem Ort installieren, an dem die Voraussicht oder der Betrieb des Airbags oder anderer Sicherheitseinrichtungen des Fahrzeugs beeinträchtigt wird oder das Führen des Fahrzeugs gestört wird, kann er die Ursache für einen Unfall sein.

- **VERWENDEN SIE NIEMALS SCHRAUBEN ODER MUTTERN DER SICHERHEITSEINRICHTUNGEN DES FAHRZEUGS ZUR INSTALLATION.**

Wenn Schrauben oder Muttern des Lenkrads, der Bremsen oder anderer Sicherheitseinrichtungen zur Installation des Monitors verwendet werden, kann ein Unfall verursacht werden.

- **BRINGEN SIE DIE DRÄHTE ORDNUNGSGEMÄSS AN.**

Wenn die Verkabelung nicht richtig durchgeführt wird, entsteht hierdurch möglicherweise ein Feuer oder Unfall. Achten Sie insbesondere darauf, das Kabel so zu verlegen und zu sichern, daß es sich nicht mit einer Schraube oder dem beweglichen Teil einer Sitzschiene verheddert.

- **VERWENDEN SIE DAS GERÄT NUR IN FAHRZEUGEN MIT 12-V-GLEICHSTROM-SYSTEM UND NEGATIVER ERDUNG.**

Dieser Monitor darf nur in Fahrzeugen mit einem 12-V-Gleichstromsystem und Negativer Erdung verwendet werden.

Er darf nicht in großen Lkw oder Diesel-fahrzeugen mit 24-V-Gleichstrom-systemen verwendet werden. Wenn der Monitor im falschen Fahrzeugtyp verwendet wird, kann er ein Feuer oder einen Unfall verursachen.

- **Um einen Kurzschluß zu vermeiden, empfiehlt es sich, den negativen Pol der Batterie abzutrennen und alle elektrischen Anschlüsse vorzunehmen, bevor der Monitor installiert wird. Wenn Sie sich nicht sicher sind, wie das Gerät installiert wird, lassen Sie es von einem qualifizierten Techniker einbauen.**

- **Den Einbau des Monitors an den folgenden Stellen vermeiden**

- an denen die Fahrsicherheit gefährdet wäre.
- an denen es direkter Sonneneinstrahlung oder Hitzeinwirkung durch die Heizung ausgesetzt wäre. Installieren Sie es auch nicht an einem extrem heißen Ort.
- an denen es Regen, Wasserspritzern oder übermäßiger Feuchtigkeit ausgesetzt wäre.
- an denen es Staub ausgesetzt wäre.
- die instabil sind.
- an denen die Fahrzeugarmaturen beschädigt werden könnten.
- wo richtige Lüftung nicht gewährleistet werden kann

VORSICHT

Da örtlich geltende gesetzliche Vorschriften die zulässigen Stellen zur Anbringung des Farbmonitors festlegen können, müssen Sie sich zuerst über alle zutreffenden Vorschriften informieren und diese befolgen.

FRANÇAIS

Les illustrations du moniteur à écran large utilisées dans ce manuel sont du KV-MRD900, sauf spécification contraire.

AVERTISSEMENT

L'installation nécessite certaines connaissances spéciales.

N'installez pas le moniteur vous-même. Consultez un revendeur possédant les connaissances spéciales nécessaires pour une installation correcte et sûre.

- **N'INSTALLEZ PAS LE MONITEUR DANS UN ENDOIT OÙ IL PEUT GÉNER LA VISIBILITÉ DU CONDUCTEUR OU LE FONCTIONNEMENT D'UN DISPOSITIF DE SÉCURITÉ TEL QUE LES COUSSINS GONFLABLES, OU DANS UN ENDOIT INTERDIT PAR LES LOIS ET RÉGLEMENTS EN PLACE.**

Si le moniteur était installé à un emplacement gênant la visibilité avant, ou le déploiement du sac à air, et autres dispositifs de sécurité, ou à un emplacement gênant pour la conduite du véhicule, comme près du levier des vitesses ou de la pédale du frein, cela risquerait de provoquer des accidents.

- **NE JAMAIS UTILISER POUR L'INSTALLATION DES BOULONS OU DES ÉCROUS PROVENANT DES DISPOSITIFS DE SÉCURITÉ DU VÉHICULE.**

Si l'on utilisait pour l'utilisation du moniteur des boulons et des écrous cannibalisés du volant, des freins ou autres dispositifs de sécurité, cela risquerait de provoquer des accidents.

- **ATTACHER LES CORDONS CORRECTEMENT.**

Si le câblage n'est pas exécuté correctement, cela risque de provoquer un incendie ou autre accident. Veiller, en particulier, à tirer et attacher les fils en sorte qu'ils ne s'accrochent pas à une vis ou ne se coincent dans les parties mobiles des rails des sièges.

- **USAGE SUR LES VÉHICULES DE 12 V CC AVEC NÉGATIF À LA MASSE.**

Ce moniteur ne peut être utilisé que sur les véhicules de 12 V CC avec négatif à la masse.

Il ne peut pas être utilisé sur les gros camions ou les véhicules diesel de 24 V CC.

S'il était utilisé sur un type de véhicule inadéquat cela risquerait de provoquer un incendie ou autres accidents.

- **Pour éviter les courts-circuits, nous recommandons que vous déconnectiez la borne négative de la batterie et réalisez toutes les connexions électriques avant d'installer l'appareil. Si vous n'êtes pas sûr de savoir comment installer cet appareil correctement, faites-le installer par un technicien qualifié.**

- **Évitez d'installer le moniteur dans les endroits suivants**

- Où il peut gêner la conduite de la voiture.
- Où il est exposé à la lumière directe du soleil, à la chaleur directe du chauffage ou placé dans un endroit très chaud.
- Où il est sujet à la pluie, aux éclaboussures ou à une humidité excessive.
- Où il est sujet à la poussière.
- Où il est positionné dans un endroit instable.
- Où il peut endommager les accessoires de la voiture.
- Où une ventilation correcte ne peut pas être maintenue.

ATTENTION

Puisqu'il peut y avoir des réglementations définissant les emplacements d'installation autorisés pour un moniteur et que celles-ci peuvent varier d'un pays ou d'une région à l'autre, assurez-vous d'installer le moniteur couleur dans un endroit conforme à ces lois.

NEDERLANDS

De afbeeldingen van de breedbeeld-monitor in deze handleiding zijn gebaseerd op de KV-MRD900, tenzij anders aangegeven.

WAARSCHUWING

Het installeren vereist een specifieke kennis. Installeer het monitorsysteem derhalve niet zelf. Raadpleeg de plaats van aankoop of een vakman die deze speciale kennis heeft voor het veilig en betrouwbaar installeren.

- **INSTALLEER DE MONITOR NIET OP EEN PLAATS DIE HET BESTUREN VAN DE AUTO, HET ZICHT, DE WERKING VAN VEILIGHEIDSVORZIENINGEN ALS AIRBAGS HINDERT OF OP PLAATSEN DIE DOOR WETTELIJKE BEPALINGEN OF REGELS ZIJN VERBODEN.**

Als de monitor op een plaats is geïnstalleerd waar dit het uitzicht op de weg belemmert, dit de werking van de airbag of dit andere veiligheidsvoorzieningen hindert, of waar het besturen van het voertuig in gevaar wordt gebracht, kan dit tot een ongeval leiden.

- **GEBUIK NOOIT SCHROEVEN OF MOEREN VOOR DE INSTALLATIE DIE NODIG ZIJN VOOR DE VEILIGHEIDSVORZIENINGEN VAN DE AUTO.**

Als schroeven of moeren van het stuur, de rem of andere veiligheidsvoorzieningen worden gebruikt voor de installatie van de monitor, kan dit tot een ongeval leiden.

- **SLUIT DE BEDRADING OP DE JUISTE WIJZE AAN.**

Als de bedrading verkeerd wordt aangesloten, kan dit tot brand of een ongeval leiden. Let er met name op dat de stroomvoorzieningskabel nergens achter blijft steken of in contact komt met de bewegende delen van de rails van de stoelen.

- **ALLEEN GEBRUIKEN IN COMBINATIE MET VOERTUIGEN DIE WERKEN MET EEN NEGATIEVE AARDING VAN 12 V GELIJKSTROOM.**

Dit monitorsysteem is alleen bedoeld voor voertuigen die zijn gebaseerd op een negatieve aarding van 12 V gelijkstroom. Het systeem kan niet worden gebruikt in vrachtwagens of diesels, die met 24 V gelijkstroom werken. Wanneer dit systeem in een verkeerd type voertuig wordt gebruikt, kan dit tot brand of een ongeval leiden.

- **Ter voorkoming van kortsluiting, raden we aan dat u de negatieve aansluiting van de accu losmaakt en daarna alle benodigde verbindingen tot stand brengt alvorens de eenheid te installeren. Als u niet zeker weet hoe u de eenheid moet installeren, kunt u dit beter door een erkend vakman laten doen.**

- **Installeer de monitor niet op de volgende plaatsen**

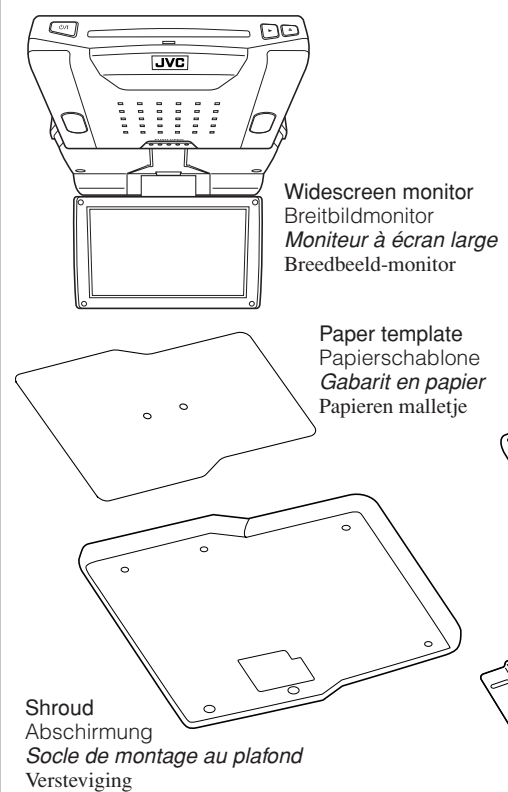
- waar deze een gevaar vormt voor het besturen van de auto.
- waar deze wordt blootgesteld aan direct zonlicht, een verwarming of een andere hittebron.
- waar deze wordt blootgesteld aan regen, spatwater of extreme vochtigheid.
- waar deze wordt blootgesteld aan stof.
- waar deze op een instabiele ondergrond komt te staan.
- waar deze van de auto kan beschadigen.
- waar het toestel niet goed kan worden geventileerd.

LET OP!

Er zijn mogelijk bepaalde regels of bepalingen die de installatieplaats voor de monitor bepalen, en deze regels of bepalingen kunnen per land of gebied verschillend. Plaats de kleurenmonitor beslist in overeenstemming met dergelijke bepalingen.

Parts list for installation and connection

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

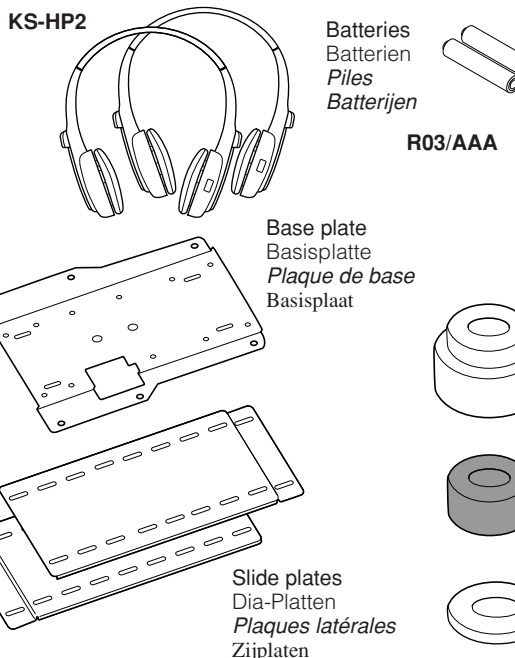


Teilleste für den Einbau und Anschluß

Die folgenden Teile werden zusammen mit diesem Gerät geliefert.

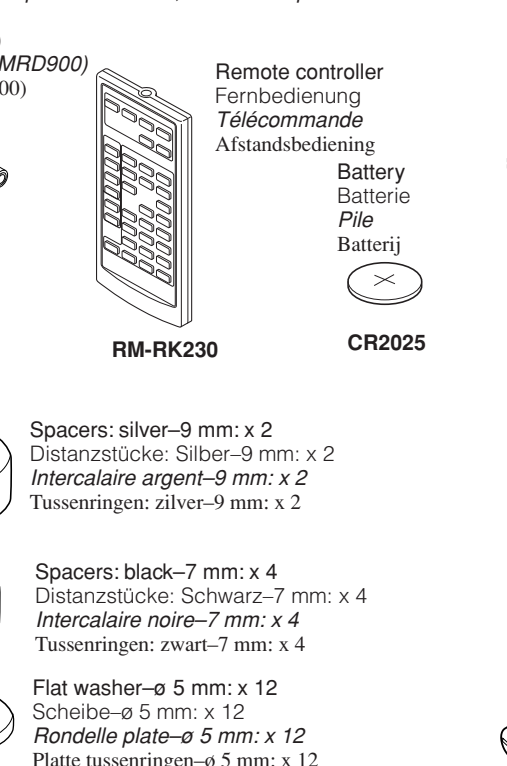
Nach ihrer Überprüfung, die Teile richtig einsetzen.

Cordless headphones (supplied only with KV-MRD900)
Schnurloser Kopfhörer (nur mit KV-MRD900 mitgeliefert)
Casque d'écoute sans fil (fourni uniquement avec le KV-MRD900)
Draadloze hoofdtelefoon (alleen bijgeleverd bij de KV-MRD900)



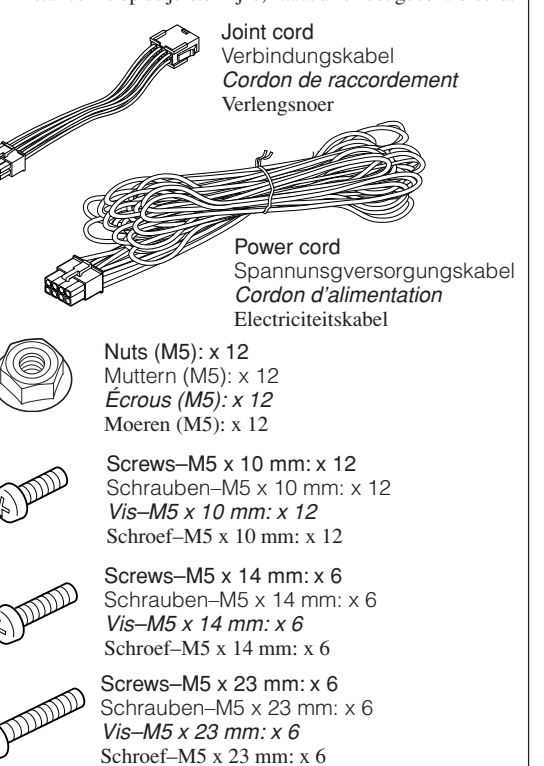
Liste des pièces pour l'installation et raccordement

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



Lijst van onderdelen die u bij installatie en aansluiting nodig hebt

De volgende onderdelen worden bij het apparaat geleverd. Installeer ze op de juiste wijze, nadat u ze hebt gecontroleerd.



INSTALLATION

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 IN-CAR ENTERTAINMENT dealer or a company supplying kits.

EINBAU

Die folgende Abbildung zeigt einen typischen Einbau. Dennoch müssen Sie entsprechend Ihrem jeweiligen Auto Anpassungen vornehmen. Bei irgendwelchen Fragen oder wenn Sie Informationen hinsichtlich des Einbausatzes brauchen, wenden Sie sich an ihren JVC-Autoradiofachhändler oder ein Unternehmen das diese Einbausätze vertreibt.

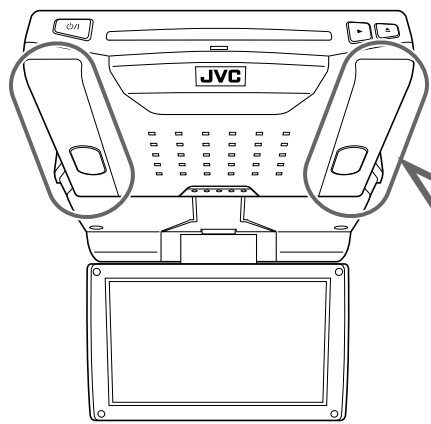
INSTALLATION

L'illustration suivante est un exemple d'installation typique. Cependant, vous devez faire les ajustements correspondant à votre voiture particulière. Si vous avez des questions ou avez besoin d'information sur des kits d'installation, consulter votre revendeur d'autoradios JVC ou une compagnie d'approvisionnement.

INSTALLATIE

Op de volgende afbeelding kunt u zien hoe de installatie, normaal gesproken, in zijn werk gaat. U moet echter bij de installatie rekening houden met de bijzonderheden van uw eigen auto. Neem bij vragen of voor meer bijzonderheden over inbouwpakketten contact op met uw JVC auto audiohandelaar of een dealer of een bedrijf dat inbouwpakketten levert.

Detaching the dome light cover / Abnehmen der Deckenleuchtenblende / Détachement du couvercle du plafonnier / Bevestigen van de afdekking van de koepelverlichting

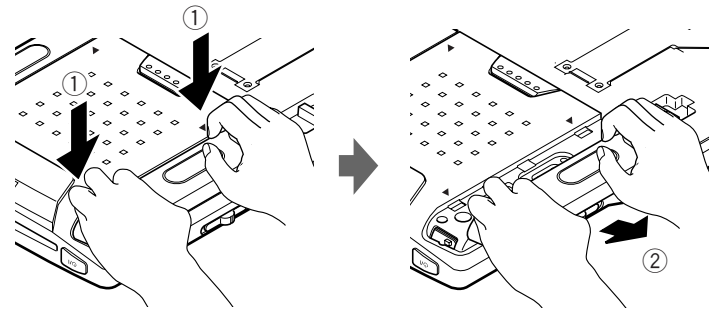


To mount the widescreen monitor, detach the dome light covers. As illustrated, depress the two portions on the cover indicated by the marks ▲ (1), then pull off the cover (2).

Zum Anbringen des Breitbildmonitors die Deckenleuchtenblenden abnehmen. Wie in der Abbildung gezeigt drücken Sie die beiden Abdeckungsstellen ein, die durch die Markierungen ▲ (1) gekennzeichnet sind und ziehen dann die Abdeckung (2) ab.

Pour monter le moniteur à écran large, détachez les couvercles du plafonnier. Comme montré sur l'illustration, faites pression sur les deux parties sur le couvercle marquées par ▲ (1), puis retirez le couvercle (2).

Voor het installeren van de breedbeeld-monitor, moet u de afdekkingen van de koepelverlichting verwijderen. Druk zoals afgebeeld op de twee gedeeltes op de afdekking die met ▲ zijn gemarkeerd (1) en verwijder vervolgens de afdekking (2).



Mounting the widescreen monitor

Installation procedure varies among cars. The following is an example. For detailed procedure, see the right page.

It is recommended to have the monitor system installed by a qualified technician.

Anbringen des Breitbildmonitors

Das Installationsverfahren hängt von dem jeweiligen Fahrzeugtyp ab. Das folgende ist ein Beispiel.

Einzelheiten zum Verfahren siehe betreffende Seiten. Es wird empfohlen, daß das Monitorsystem durch einen qualifizierten Techniker installiert wird.

Montage du moniteur à écran large

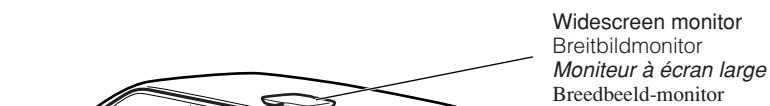
La procédure d'installation varie d'une voiture à l'autre. La procédure qui suit est un exemple. Pour en savoir plus, référez-vous à la page de droite.

Il est recommandé de faire installer le système de moniteur par un technicien qualifié.

Installeren van de breedbeeld-monitor

De installatiewijze verschilt afhankelijk van het type auto. Hier wordt slechts een voorbeeld gegeven. Zie de rechterbladzijden voor details.

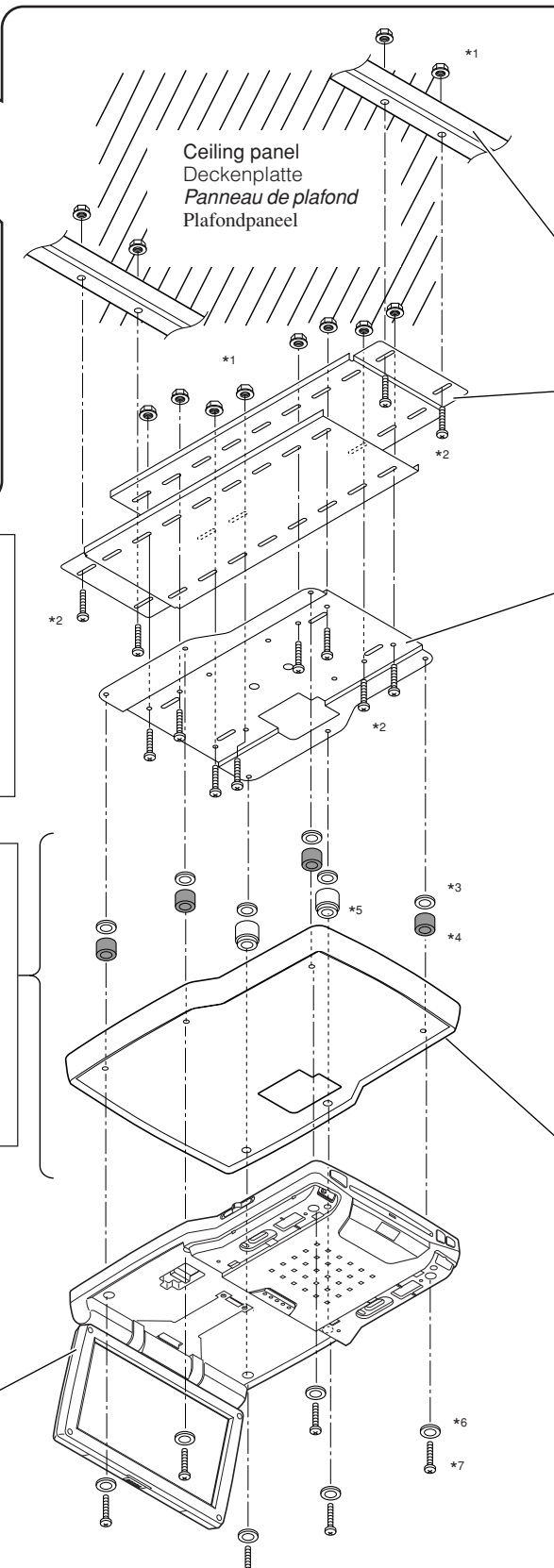
Laat bij voorkeur het monitorsysteem door een erkend technicus installeren.



TV tuner, etc.
TV-Tuner usw.
Tuner de télévision, etc.
TV-tuner, etc.

Car receiver, etc.
Autoreceiver usw.
Récepteur d'autoradio, etc.
Autoradio-ontvanger, enz.

Widescreen monitor
Breitbildmonitor
Moniteur à écran large
Breedbeeld-monitor



*1 Nuts (M5): x 12
Muttern (M5): x 12
Écrous (M5): x 12
Moeren (M5): x 12

Ceiling reinforcement crosspieces
Deckenverstärkungsstreben
Traverses de renforcement du plafond
Kruisbalken plafondversteving

Slide plates
Dia-Platten
Plaques latérales
Zijplaten

*2 Screws—M5 x 10 mm: x 12
Schrauben—M5 x 10 mm: x 12
Vis—M5 x 10 mm: x 12
Schroef—M5 x 10 mm: x 12

Base plate
Basisplatte
Plaque de base
Basisplaat

When NOT using the shroud/Wenn das Schirmblech NICHT verwendet wird/Lors que le socle de montage au plafond N'est PAS utilisé/Indien de verstijving NIET wordt gebruikt

*3 Flat washer—ø 5 mm: x 6
Scheibe—ø 5 mm: x 6
Rondelle plate—ø 5 mm: x 6
Versteving—ø 5 mm: x 6

When using the shroud/Wenn das Schirmblech verwendet wird/Lors de l'utilisation du socle de montage au plafond/Indien de verstijving wordt gebruikt

*4 Spacers: black—7 mm: x 4
Distanzstücke: Schwarz—7 mm: x 4
Intercalaire noire—7 mm: x 4
Tussenringen: zwart—7 mm: x 4
*5 Spacers: silver—9 mm: x 2
Distanzstücke: Silber—9 mm: x 2
Intercalaire argent—9 mm: x 2
Tussenringen: zilver—9 mm: x 2

Shroud
Abschirmung
Socle de montage au plafond
Versteving

*6 Flat washer—ø 5 mm: x 6
Scheibe—ø 5 mm: x 6
Rondelle plate—ø 5 mm: x 6
Versteving—ø 5 mm: x 6

*7 Screws—M5 x 14 mm: x 6
or M5 x 23 mm: x 6—when using the shroud
Schrauben—M5 x 14 mm: x 6
oder M5 x 23 mm: x 6—Wenn das Schirmblech verwendet wird
Vis—M5 x 14 mm: x 6
ou M5 x 23 mm: x 6—lors de l'utilisation du socle de montage au plafond
Schroef—M5 x 14 mm: x 6
of M5 x 23 mm: x 6—Indien de verstijving wordt gebruikt

Before mounting the monitor, make sure that the screws do not reach the ceiling panel.

Vor der Anbringung des Monitors sicherstellen, dass die Schrauben nicht die Deckenplatte erreichen.

Avant de monter le moniteur, assurez-vous que les vis n'atteignent pas le panneau du plafond.

Controleer alvorens de monitor te bevestigen dat de schroeven niet het plafondpaneel raken.

These should not be used if the monitor position after installed seems so low that it may interfere with visibility through the rearview mirror.

Diese sollen nicht verwendet werden, wenn die Monitorposition nach dem Einbau so niedrig ist, dass sie die freie Sicht durch den Rückspiegel behindern können.

Cette partie ne doit pas être utilisée si la position du moniteur après l'installation paraît si basse qu'elle pourrait gêner la visibilité du conducteur dans le rétroviseur.

Gebruik niet indien de positie van de monitor na het installeren dermate laag is dat de monitor het zicht via de achteruitkijkspiegel zou kunnen hinderen.

Widescreen monitor
Breitbildmonitor
Moniteur à écran large
Breedbeeld-monitor

Before mounting the monitor to the ceiling:

- Perform the required external connections first (see reverse page).
- Wear goggles or protective eyewear to protect your eyes especially while drilling the holes.
- Pay attention not to damage the car interior and its fittings and the ceiling of your car.

Vor der Installation des Monitors an der**Decke:**

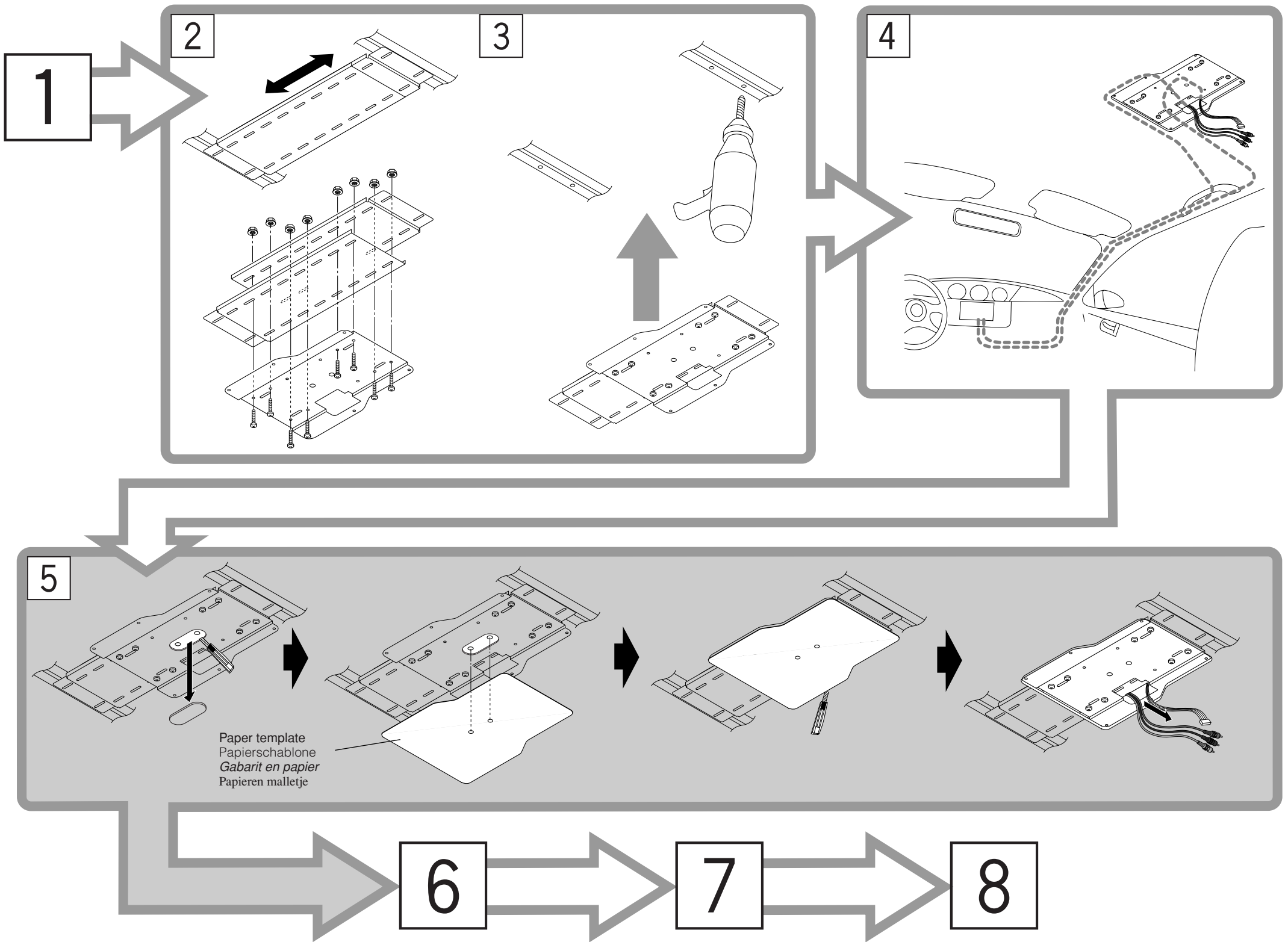
- Schließen Sie die externen Anschlüsse zuerst an (siehe Rückseite).
- Tragen Sie eine Schutzbrille zum Augenschutz, besonders beim Bohren der Löcher.
- Achten Sie darauf, nicht das Fahrzeuginnere und die Befestigungsteile und Decke Ihres Fahrzeugs zu beschädigen.

Avant de fixer le moniteur au plafond:

- Réalisez d'abord les connexions extérieures nécessaires (voir la page de dos).
- Portez des lunettes étanches ou un article de lunetterie spécialisé pour protéger vos yeux, et plus spécialement pendant le perçage des trous.
- Faites attention de ne pas endommager l'intérieur de la voiture et ses garnitures, ainsi que son plafond.

Alvorens de monitor aan het plafond te bevestigen:

- Maak eerst de vereiste externe verbindingen (zie de volgende bladzijde).
- Voorkom oogletsel en draag derhalve oogbescherming of een veiligheidsbril, vooral tijdens het boren van gaten.
- Wees voorzichtig zodat u het interieur van de auto, de diverse auto-onderdelen en het dak en plafond niet beschadigt.



- 1 Remove the dome light and interior headliner from the ceiling.**
- 2 Assemble the slide plates and the base plate.**
 - Determine the monitor installation position and length of combined slide panels first.
- 3 Attach the assembled plates to the ceiling reinforcement crosspieces.**
 - Drill the four holes in the ceiling reinforcement crosspieces to meet the mounting holes of the assembled plates.
- 4 Finish wiring then attach the interior headliner.**
- 5 Cut off the headliner using the supplied paper template.**
- 6 Connect the harness and plugs from the ceiling to the monitor.**
 - For wiring and connections, see the reverse side.
- 7 Attach the shroud and the monitor to the base plate.**
 - When using the shroud, the supplied spacers should be inserted to be kept the appropriate distance between the base plate and the shroud. If the supplied spacers and screws cannot keep the appropriate distance between the headliner and the monitor, modify the spacers and screws (or obtain those of the appropriate length).
- 8 After mounting the monitor, attach the dome light covers.**

- 1 Nehmen Sie die Deckenleuchte und Innendeckenverkleidung vom Fahrzeughimmel ab.**
- 2 Montieren Sie die Schiebepplatten und Basisplatte.**
 - Bestimmen Sie zuerst die Monitoreinbauposition und Länge der kombinierten Schiebepplatte.
- 3 Bringen Sie die montierten Platten an den Deckenverstärkung-Querstreben an.**
 - Bohren Sie die vier Löcher in den Deckenverstärkung-Querstreben, so dass sie zu den Montagelöchern an den montierten Platten passen.
- 4 Die Verdrahtung fertigstellen und dann die Innendeckenverkleidung anbringen.**
- 5 Die Deckenverkleidung mit der mitgelieferten Papierschablone abschneiden.**
- 6 Den Kabelbaum und die Stecker von der Decke zum Monitor anschließen.**
 - Für Verdrahtung und Anschlüsse siehe Rückseite.
- 7 Schirmblech und Monitor an der Basisplatte anbringen.**
 - Bei Verwendung des Schirmblechs sollten die mitgelieferten Distanzstücke eingesetzt werden, um einen geeigneten Abstand zwischen Basisplatte und Schirmblech einzuhalten. Wenn die mitgelieferten Distanzstücke und Schrauben nicht den geeigneten Abstand zwischen Innendeckenverkleidung und Monitor bewahren können, modifizieren Sie die Distanzstücke oder Schrauben (oder besorgen Sie solche geeigneter Länge).
- 8 Nach dem Anbringen des Monitors bringen Sie die Deckenleuchtenabdeckungen wieder an.**

- 1 Retirez le plafonnier et la garniture intérieure du plafond.**
- 2 Assemblez les plaques latérales avec la plaque de base.**
 - Déterminez d'abord la position d'installation du moniteur et la longueur des panneaux latéraux combinés.
- 3 Attachez les plaques assemblées sur les traverses de renforcement du plafond.**
 - Percez quatre trous dans les travers de renforcement du plafond au niveau des trous de montage des plaques assemblées.
- 4 Terminez le câblage puis attachez la garniture intérieure.**
- 5 Coupez la garniture en utilisant le gabarit en papier fourni.**
- 6 Connectez le harnais et les fiches du plafond au moniteur.**
 - Pour le câblage et les connexions, référez-vous à la page de dos.
- 7 Attachez le socle de montage au plafond et le moniteur sur la plaque de base.**
 - Les intercalaires fournies peuvent être utilisées si une certaine distance doit être maintenue entre la plaque de base et le socle de montage au plafond. Si les intercalaires et les vis fournies ne permettent pas de maintenir la distance appropriée entre la garniture et le moniteur, modifiez les intercalaires ou les vis (ou munissez-vous d'intercalaires et de vis de la longueur appropriée).
- 8 Après avoir monté le moniteur, attachez les couvercles du plafonnier.**

- 1 Verwijder de koepelverlichting en interieur-voering van het plafond.**
- 2 Monteer de zijplaten en basisplaat.**
 - Bepaal eerst de installatieplaat voor de monitor en lengte van de gecombineerde zijpanelen.
- 3 Bevestig de gemonteerde platen aan de versterking-kruisbalken van het plafond.**
 - Boor vier gaten in de versterking-kruisbalken in overeenstemming met de bevestigingsgaten in de gemonteerde platen.
- 4 Voltooi de bedrading en bevestig vervolgens de interieur-voering.**
- 5 Gebruik het bijgeleverde papieren malletje en snij het vereiste gedeelte uit de interieur-voering.**
- 6 Verbind de bundel en stekker van het plafond met de monitor.**
 - Zie de achterkant van deze bladzijde voor details aangaande de bedrading en verbindingen.
- 7 Bevestig de verstijving en de monitor op de basisplaat.**
 - De bijgeleverde tussenringen kunnen worden geplaatst indien er een vrije ruimte tussen de basisplaat en de verstijving moet worden gehouden. Indien u met de bijgeleverde tussenringen en schroeven niet de juiste afstand tussen de interieur-voering en de monitor kunt krijgen, moet u de tussenringen en schroeven aanpassen (of koop nieuwe van een geschikte lengte).
- 8 Bevestig de afdekkingen van de koepelverlichting weer nadat u de monitor heeft bevestigd.**

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.

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 IN-CAR ENTERTAINMENT dealers.

- Replace the fuse with one of the specified ratings. If the fuse blows frequently, consult your JVC IN-CAR ENTERTAINMENT dealer.

Zur Vermeidung von Kurzschlüssen empfehlen wir, daß Sie den negativen Batterieanschluß abtrennen und alle elektrischen Anschlüsse herstellen, bevor das Gerät eingebaut wird. Sind Sie sich über den richtigen Einbau des Geräts nicht sicher, lassen Sie es von einem qualifizierten Techniker einbauen.

Hinweis:

Dieses Gerät ist für den Betrieb in **elektrischen Anlagen mit 12 V Gleichstrom und (-) Erdung** ausgelegt. Verfügt Ihr Fahrzeug nicht über diese Anlage, ist ein Spannungsinverter erforderlich, der bei JVC-Autoradiofachhändler erworben werden kann.

- Die Sicherung mit einer der entsprechenden Nennleistung ersetzen. Brennt die Sicherung häufig durch, wenden Sie sich an ihren JVC-Autoradiofachhändler.

Pour éviter tout court-circuit, nous vous recommandons de débrancher la borne négative de la batterie et d'effectuer tous les raccordements électriques avant d'installer l'appareil. Si l'on n'est pas sûr de pouvoir installer correctement cet appareil, le faire installer par un technicien qualifié.

Remarque:

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

- Remplacer le fusible par un de la valeur précisée. Si le fusible saute souvent, consulter votre revendeur d'autoradios JVC.

Om kortsluiting te voorkomen adviseren wij u om de minpool van de accu los te maken en alle elektrische verbindingen tot stand te brengen voordat u het apparaat in de auto installeert. Als u niet zeker weet hoe u dit apparaat moet installeren, kunt u dit beter door een daartoe gekwalificeerde technicus laten doen.

Opmerking:

Dit apparaat mag worden gebruikt bij elektrische systemen die werken op **12 V** gelijkstroom met **negatieve** aarding. Als uw auto niet is uitgerust met een dergelijk systeem, is een spanningsomzetter vereist. Dit instrument kan worden aangeschaft bij JVC auto audiohandelaar.

- Vervang de zekering door een exemplaar met het aangegeven vermogen. Als de zekering vaak doorslaat, moet u uw JVC auto audiohandelaar raadplegen.

Typical Connections / Typische Anschlüsse / Raccordements typiques / Normale verbindingen

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

The leads of the power cord and those of the connector from the car body may be different in color.

- 1 Connect the colored leads of the power cord to the car battery, the car light control switch, and the door sensor in the following sequence.

- 1 Black: ground
- 2 Yellow: to car battery (constant 12 V)
- 3 Red: to an accessory terminal
- 4 Orange: to car light control switch

DOMELIGHT

- 5 Gray with red stripe: to the door sensor (DOOR SW)
- 6 Black with red stripe: ground (DOMELIGHT)
- 7 Yellow with red stripe: to car battery (constant 12 V)

- 2 Finally connect the wiring harness to the unit.

- Using the joint cord makes the connection/disconnection easier.

Vor dem Anschließen: Die Verdrahtung im Fahrzeug sorgfältig überprüfen. Falsche Anschlüsse können ernsthafte Schäden am Gerät hervorrufen. Die Betriebsstrom- und Anschlussleitungen von der Autokarosserie können sich in der Farbe unterscheiden.

- 1 Die farbigen Leitungen des Betriebsstromkabels an die Autobatterie, den Autobeleuchtungssteuerungsschalter und den Türkontakt in der folgenden Reihenfolge anschließen.

- 1 Schwarz: an Erde
- 2 Gelb: an die Autobatterie (12 V Gleichstrom)
- 3 Rot: an den Hilfsanschluß
- 4 Orange: Zum Autobeleuchtungssteuerungsschalter

DOMELIGHT

- 5 Grau mit rotem Streifen: zum Türkontakt (DOOR SW)
- 6 Schwarz mit rotem Streifen: an Erde (DOMELIGHT)
- 7 Gelb mit rotem Streifen: an die Autobatterie (12 V Gleichstrom)

- 2 Schließen Sie zum Schluß den Kabelbaum an das Gerät an.

- Durch Verwendung des Verbindungskabels wird Anschluss/Abtrennung erleichtert.

Avant de commencer la connexion: Vérifiez attentivement le câblage du véhicule. Une connexion incorrecte peut endommager sérieusement l'appareil. Les fils du cordon d'alimentation et ceux du connecteur provenant de la voiture peuvent être de couleur différente.

- 1 Connectez les fils de couleur du cordon d'alimentation à la batterie de la voiture, au commutateur d'éclairage et capteur de porte, dans l'ordre suivant.

- 1 Noir: à la masse
- 2 Jaune: à la batterie de la voiture (12 V constant)
- 3 Rouge: à la prise accessoire
- 4 Orange: au commutateur d'éclairage de la voiture

DOMELIGHT

- 5 Gris à bande rouge: au capteur de porte (DOOR SW)
- 6 Noir à bande rouge: à la masse (DOMELIGHT)
- 7 Jaune à bande rouge: à la batterie de la voiture (12 V constant)

- 2 Finalement, connectez le faisceau de fils à l'appareil.

- L'utilisation du cordon prolongateur d'alimentation rend la connexion/déconnexion plus facile.

Alvorens de verbindingen tot stand te brengen: Moet u de bedrading in de auto zorgvuldig. Het apparaat kan door verkeerde verbindingen ernstige schade oplopen. De draden van het stroomsnoer en van de auto zelf kunnen verschillend zijn.

- 1 Verbind de gekleurde draden van het stroomsnoer met de auto-accu, de autoverlichtingschakelaar en de portiersensor in de volgende volgorde.

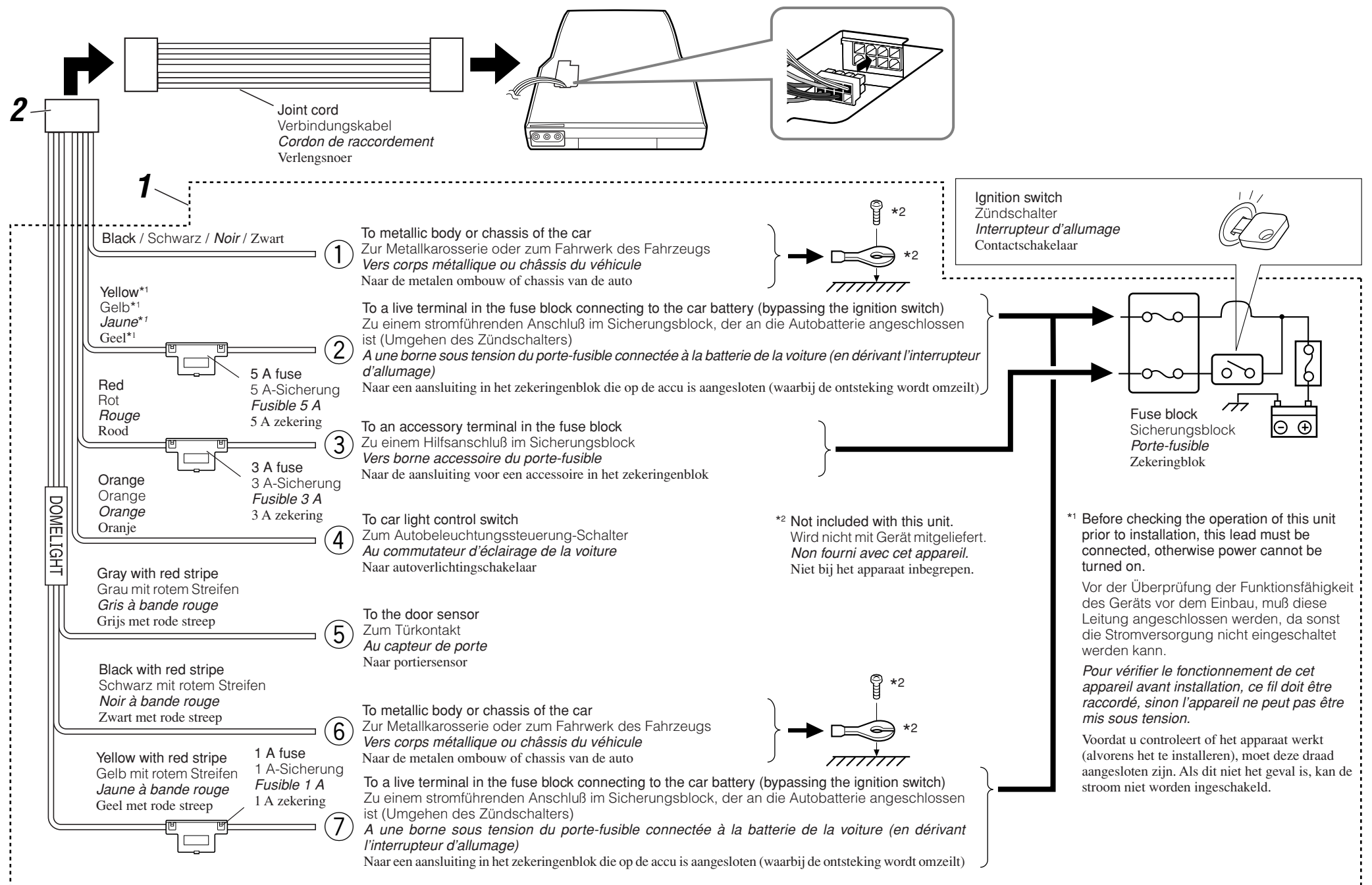
- 1 Zwart: aarde
- 2 Geel: naar de accu van de auto (constant 12 V)
- 3 Rood: naar het aansluitpunt van een accessoire
- 4 Oranje: naar autoverlichtingschakelaar

DOMELIGHT

- 5 Grijs met rode streep: naar portiersensor (DOOR SW)
- 6 Zwart met rode streep: aarde (DOMELIGHT)
- 7 Geel met rode streep: naar de accu van de auto (constant 12 V)

- 2 Sluit tot slot de bedrading naar de eenheid aan.

- Gebruik het verlengsnoer voor het stroomsnoer om het aansluiten/ontkoppelen te vergemakkelijken.

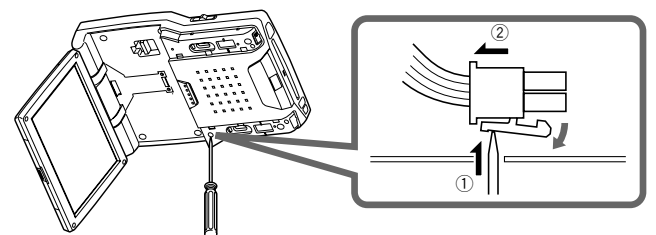


To disconnect the harness, unlock the harness using the screw driver or a similar tool, then pull out the harness. (Detach the dome light cover prior to this.)

Zum Abtrennen des Kabelbaums lösen Sie den Kabelbaum mit einem Schraubenzieher oder ähnlichen Werkzeug und ziehen den Kabelbaum dann ab. (Nehmen Sie vorher die Deckenleuchtenblende ab.)

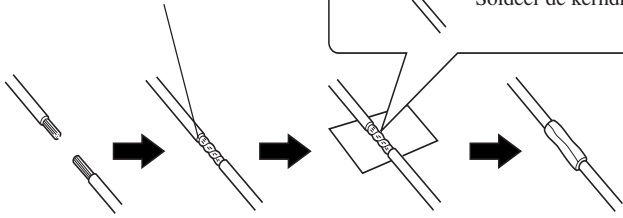
Pour déconnecter le harnais, déverrouillez le harnais en utilisant un tournevis ou un outil similaire, puis tirez sur le harnais. (Détachez le plafonnier avant de le faire.)

Para desconectar el mazo de conductores, desbloquéelo con un destornillador o herramienta similar y seguidamente, extráigalo. (Antes de realizar esto, retire la cubierta de la luz del techo.)



Connecting the leads / Anschließen der Leitungen / Raccordement des fils / Aansluiting van de gekleurde draden

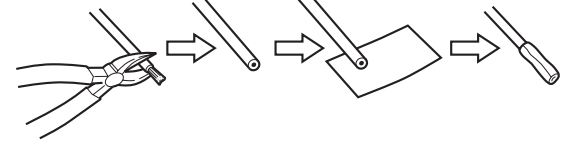
Twist the core wires when connecting.
Die Kerndrähte beim Anschließen verdrehen.
Torsader les âmes des fils en les raccordant.
Draai de kerndraden om elkaar heen wanneer u ze wilt aansluiten.



Solder the core wires to connect them securely.
Die Kerndrähte anlöten, um sie fest anzuschließen.
Souder les âmes des fils pour les raccorder entre eux de façon sûre.
Soldeer de kerndraden zodat ze stevig vast zitten.

CAUTION / VORSICHT / ATTENTION / LET OP!:

- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- Zur Vermeidung eines Kurzschlusses die Anschlußklemmen der NICHT VERWENDETEN Leitungen mit Isolierklebeband umwickeln.
- Pour éviter les court-circuits, couvrir les bornes des fils qui ne sont PAS utilisés avec de la bande isolante.
- Om kortsluiting te voorkomen, moet u de aansluitklemmen van ONGEBRUIKTE gekleurde draden met isolatieband bedekken.



CONNECTING TO THE RECEIVER AND EXTERNAL COMPONENTS

ANSCHLIESSEN AN RECEIVER UND EXTERNE KOMPONENTEN

CONNEXION DE L'AUTORADIO ET DES APPAREILS EXTÉRIEURS

VERBINDEN MET EEN RECEIVER EN EXTERNE COMPONENTEN

DO NOT connect the AV1-IN and AV2-INPUT plugs on the monitor to the LINE OUT or SUBWOOFER plugs of the car receiver.

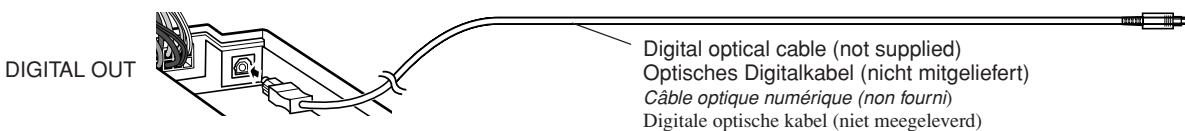
Schließen Sie NICHT die Stecker AV1-IN und AV2-INPUT am Monitor an die Stecker LINE OUT oder SUBWOOFER am Fahrzeug-Receiver an.

NE CONNECTEZ PAS les fiches AV1-IN et AV2-INPUT du moniteur aux fiches LINE OUT ou SUBWOOFER de l'autoradio.

Verbind de AV1-IN en AV2-INPUT aansluitingen van de monitor NIET met de LINE OUT of SUBWOOFER aansluitingen van de auto-receiver.

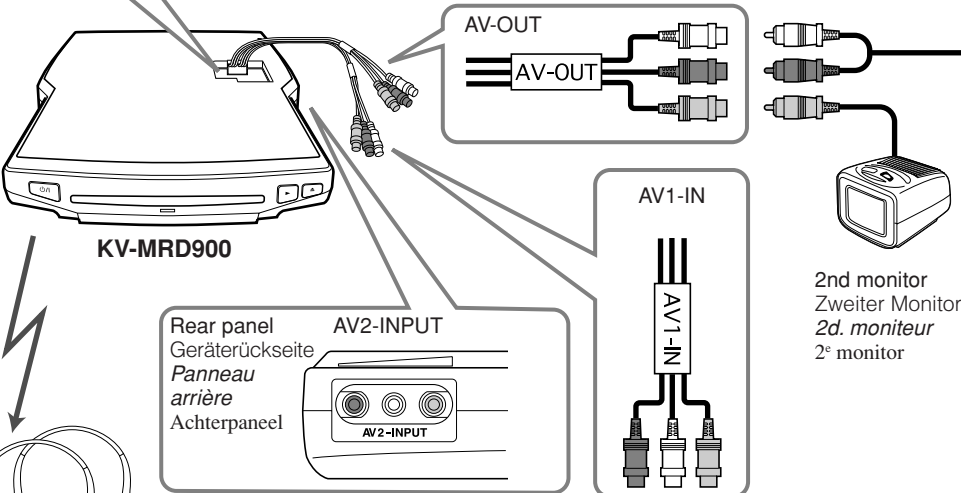
For KV-MRD900 / Für KV-MRD900 / Pour la KV-MRD900 / Voor KV-MRD900

See also "About sounds reproduced through the terminals" on page 36 of the INSTRUCTIONS.
Siehe auch „Über von den Rückseitenbuchsen ausgegebenen Ton“ auf Seite 36 der BEDIENUNGSANLEITUNG.
Référez-vous aussi à "À propos des sons reproduits par les prises" à la page 36 du MANUEL D'INSTRUCTIONS.
Zie tevens "Meer over het geluid dat via de achter-aansluitingen wordt gereproduceerd" op bladzijde 36 van de GEBRUIKSAANWIJZING.



Digital optical cable (not supplied)
Optisches Digitalkabel (nicht mitgeliefert)
Câble optique numérique (non fourni)
Digitale optische kabel (niet meegeleverd)

Audio/video control amplifier or the decoder compatible with the multichannel digital sources
Audio/Video-Verstärker oder mit Mehrkanalquellen kompatibler Decoder
Amplificateur de commande audio/vidéo ou décodeur compatible avec les sources numériques multicanaux
Audio/videoregeling versterker of de decoder compatibel met meerkanaals digitale bronnen

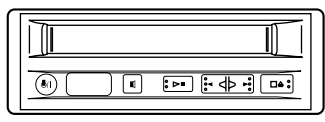


LINE IN (or equivalent terminal)
(oder entsprechende Buchse)
(ou prise équivalente)
(of gelijkwaardige aansluiting)
Car receiver
Autoreceiver
Récepteur d'autoradio
Autoradio-ontvanger

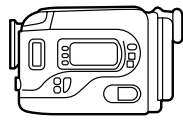


KS-HP2

Playback source / Wiedergabesignalquelle / Source de lecture / Afspeelbron



VCR (KV-V8 or KV-V10)
Videorecorder (KV-V8 oder KV-V10)
Magnétoscope (KV-V8 ou KV-V10)
Videorecorder (KV-V8 of KV-V10)

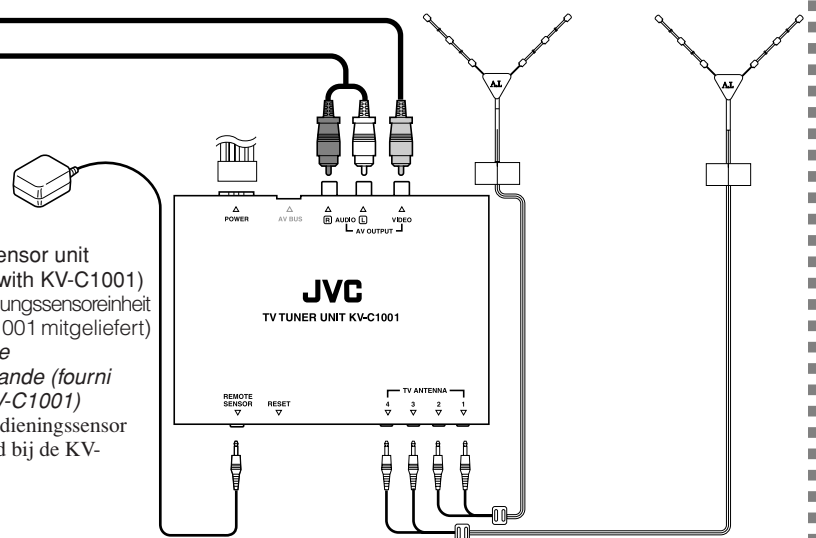


Camcorder
Camcorder
Caméscope
Camcorder

**When using the TV tuner system KV-C1001
Bei Verwendung des TV-Tunersystems KV-C1001
Lors de l'utilisation du tuner de télévision KV-C1001
Bij gebruik van het KV-C1001 TV-tunersysteem**

Antenna elements (supplied with KV-C1001)
Antennenelemente (mit KV-C1001 mitgeliefert)
Éléments d'antenne (fournis avec le KV-C1001)
Antenne-elementen (bijgeleverd bij de KV-C1001)

Remote sensor unit (supplied with KV-C1001)
Fernbedienungssensoreinheit (mit KV-C1001 mitgeliefert)
Capteur de télécommande (fourni avec le KV-C1001)
Afstandsbedieningssensor (bijgeleverd bij de KV-C1001)



KV-C1001

*3 RCA pin plug cord (not supplied)
*4 Video cord (not supplied)

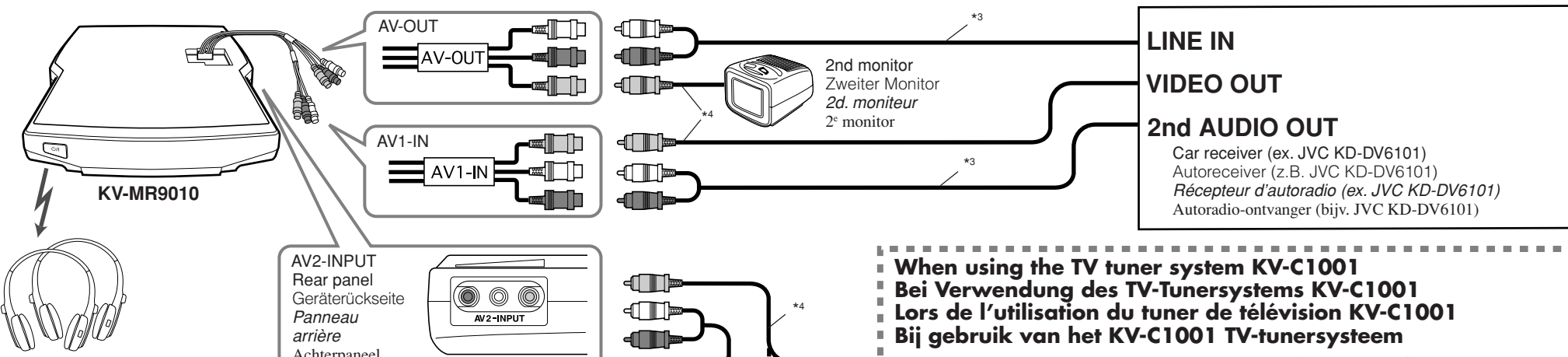
*3 RCA-Klinkensteckerkabel (nicht mitgeliefert)
*4 Videokabel (nicht mitgeliefert)

*3 Cordon à fiches cinch (non fourni)
*4 Cordon vidéo (non fourni)

*3 RCA-penstekkersnoer (niet meegeleverd)
*4 Videosnoer (niet meegeleverd)

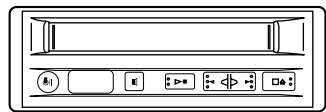
For KV-MR9010 / Für KV-MR9010 / Pour la KV-MR9010 / Voor KV-MR9010

- When the receiver is equipped with the 2nd AUDIO OUT plug
- Wenn der Receiver mit dem 2nd AUDIO OUT Stecker ausgestattet ist
- Si l'autoradio est muni d'une fiche 2nd AUDIO OUT
- Indien de receiver een 2nd AUDIO OUT aansluiting heeft

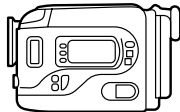


KS-HP2
(not supplied)
(nicht mitgeliefert)
(non fourni)
(niet bijgeleverd)

Playback source / Wiedergabesignalquelle / Source de lecture / Afspeelbron



VCR (KV-V8 or KV-V10)
Videorecorder (KV-V8 oder KV-V10)
Magnétoscope (KV-V8 ou KV-V10)
Videorecorder (KV-V8 of KV-V10)



Camcorder
Camcorder
Caméscope
Camcorder

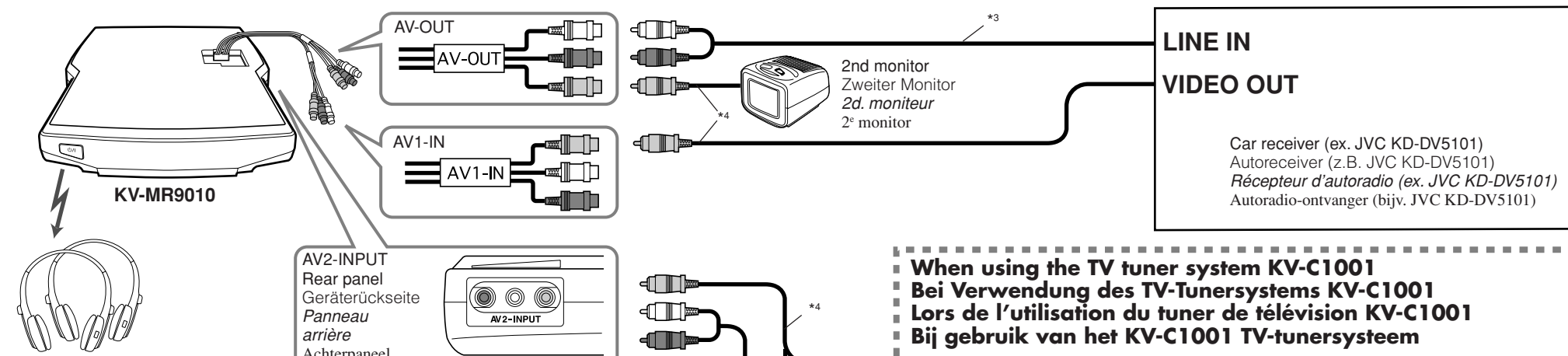
When increasing the headphones level, first increase output level of the 2nd AUDIO OUT on the receiver, then adjust the headphones level on the headphones.
• Refer also to the INSTRUCTIONS of your car receiver.

Beim Höherstellen der Kopfhörerlautstärke steigern Sie zunächst den Ausgangspegel des 2nd AUDIO OUT am Receiver und stellen dann die Kopfhörerlautstärke am Kopfhörer ein.
• Siehe auch BEDIENUNGSANLEITUNG des Fahrzeug-Receivers.

Si vous souhaitez augmenter le niveau du casque d'écoute, augmentez d'abord le niveau de sortie de la prise 2nd AUDIO OUT sur l'autoradio, puis ajustez le niveau du casque d'écoute sur le casque.
• Référez-vous aussi au MANUEL D'INSTRUCTION de votre autoradio.

Voor het verhogen van het niveau van de hoofdtelefoon, moet u eerst het uitgangsniveau van de 2nd AUDIO OUT aansluiting van de receiver verhogen.
• Zie tevens de GEBRUIKSAANWIJZING van uw Autoradio-ontvanger

- When the receiver is NOT equipped with the 2nd AUDIO OUT plug
- Wenn der Receiver NICHT mit dem 2nd AUDIO OUT Stecker ausgestattet ist
- Si l'autoradio n'est PAS muni de fiches 2nd AUDIO OUT
- Indien de receiver GEEN 2nd AUDIO OUT aansluiting heeft

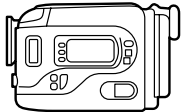


KS-HP2
(not supplied)
(nicht mitgeliefert)
(non fourni)
(niet bijgeleverd)

Playback source / Wiedergabesignalquelle / Source de lecture / Afspeelbron



VCR (KV-V8 or KV-V10)
Videorecorder (KV-V8 oder KV-V10)
Magnétoscope (KV-V8 ou KV-V10)
Videorecorder (KV-V8 of KV-V10)



Camcorder
Camcorder
Caméscope
Camcorder

*3 RCA pin plug cord (not supplied)
*4 Video cord (not supplied)

*3 RCA-Klinkensteckerkabel (nicht mitgeliefert)
*4 Videokabel (nicht mitgeliefert)

*3 Cordon à fiches cinch (non fourni)
*4 Cordon vidéo (non fourni)

*3 RCA-penstekkersnoer (niet meegeleverd)
*4 Videosnoer (niet meegeleverd)

TROUBLESHOOTING

FEHLERSUCHE

EN CAS DE DIFFICULTÉS

PROBLEMEN OPLOSSEN

- **The fuse blows.**
* Are the red and black leads connected correctly?
- **Power cannot be turned on.**
* Is the yellow lead connected?
- **Picture does not come on screen.**
* Is the correct input selected?
- **Dome lights cannot be turned on.**
* Is the yellow and red stripe lead connected?
- **This unit does not work at all.**
* Have you reset your unit?

- **Die Sicherung brennt durch.**
* Sind das rote und das schwarze Kabel ordnungsgemäß angeschlossen?
- **Die Stromversorgung kann nicht eingeschaltet werden.**
* Ist das gelbe Kabel angeschlossen?
- **Auf dem Bildschirm erscheint kein Bild.**
* Wurde der richtige Eingang ausgewählt?
- **Deckenleuchte lässt sich nicht einschalten.**
* Ist der gelbe Draht mit rotem Streifen angeschlossen?
- **Dieses Gerät funktioniert überhaupt nicht.**
* Haben Sie Ihr Gerät zurückgesetzt?

- **Le fusible saute.**
* Les fils rouge et noir sont-ils raccordés correctement?
- **L'appareil ne peut pas être mise sous tension.**
* Le fil jaune est-elle raccordée?
- **Aucune image n'apparaît sur l'écran.**
* L'entrée correcte est-elle choisie?
- **Le plafonnier ne peut pas être allumé.**
* Le fil à bandes jaune et rouge est-il connecté?
- **Cet appareil ne fonctionne pas du tout.**
* Avez-vous réinitialisé votre appareil?

- **De zekering brandt door.**
* Zijn de rode en zwarte kabels goed aangesloten?
- **De stroom kan niet worden ingeschakeld.**
* Is de gele kabel aangesloten?
- **Er is geen beeld op het scherm.**
* Is de juiste ingang gekozen?
- **Koepelverlichting kan niet worden ingeschakeld.**
* Is het gele en rode gestreepte draad aangesloten?
- **Toestel werkt geheel niet.**
* Heeft u het toestel teruggesteld?

JVC



9-INCH WIDESCREEN MONITOR WITH DVD PLAYER

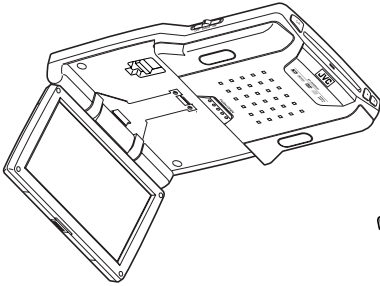
KV-MRD900

ENGLISH

9-英寸寬熒幕屏幕與 DVD 播放機

KV-MRD900

中文



WMA MP3

- This system cannot receive television broadcasts. Use the separately sold TV tuner unit KV-C1000 for optional television broadcast reception.
- 這系統無法接收電視廣播和主要被設計與綠像機一起使用。使用分開售賣的流動電視調諧器 KV-C1000 作為選擇性的電視廣播接收器。

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。

INSTRUCTIONS 使用說明書

LVT1342-003A
[UT]

WARNINGS

- **DO NOT INSTALL THE MONITOR IN A LOCATION WHICH OBSTRUCTS DRIVING, VISIBILITY, SAFETY DEVICE FUNCTION SUCH AS AIR BAGS OR WHICH IS PROHIBITED BY APPLICABLE LAWS AND REGULATIONS.**
- There may be legal regulations defining the permissible installation locations for the monitor which differ by country or by state. Be sure to install the monitor in a correct location according to such laws.
- The driver must not operate the monitor while driving.
 - * Stop your vehicle in a safe location when operating the monitor.
- The driver must not watch the television or playback pictures while driving. If the driver does it while driving, it may lead to carelessness and cause an accident.
- Keep the monitor at an appropriate sound level while driving. Driving with the sound at a level that prevents you from hearing sounds outside of and around the vehicle may cause an accident.
- Be sure not to let the monitor fall or be strongly impacted since this may cause a malfunction or fire.
- Do not use the monitor with the engine off. Doing so with the engine off will consume battery power and may prevent the engine from starting.
- When not in use, close the liquid crystal panel and store it into the compartment.
- Do not touch the surface of the liquid crystal panel directly.
- Do not hang any object on the monitor or hang down, as this may damage the monitor.

**CAUTION:**

This monitor should be used on DC 12 V only. To prevent electric shocks and fire hazards, DO NOT use any other power source.

Installation requires some special knowledge.

Do not install the monitor yourself. Consult a dealer having special knowledge of this kind for safe and reliable installation.

CAUTIONS on the supplied headphones —KS-HP2:

- DO NOT leave the headphones in a place exposed to direct sunlight for a long time, such as a dashboard, as they may be damaged.
- Keep the headphones away from a cellular phone to avoid interference.
- DO NOT turn off the power with the volume set at high level, as the sudden blast of sound can damage your hearing and/or headphones next time you use the headphones.
- If you experience a ringing in your ears, reduce volume or stop using the headphones.

Thank you for purchasing a JVC product.

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

IMPORTANT FOR LASER PRODUCTS

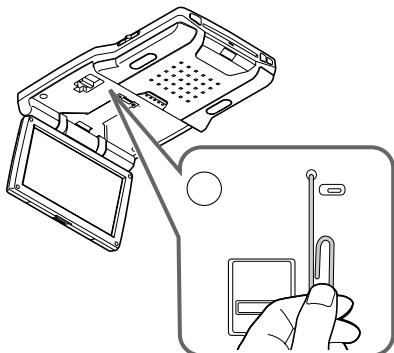
1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.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

CAUTION: Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM.	ADVARSEL: Synlig og usynlig laserstråling når maskinen er åpen eller interlocken fejler. Undgå direkte eksponering til stråling.	VARNING: Synlig och osynlig laserstråling når den öppnas och spårren är urkopplad. Beträkta ej strålen.	VARO: Avattassa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle laser säteilylle. Vältä säteeen kohdistumista suoraan ihteeseen. (f)
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This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

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

How to reset your monitor



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

How to forcibly eject a disc

If a disc cannot be recognized by the monitor or cannot be ejected...

Monitor



The disc comes out.

(for about 5 seconds while power is on)

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

How to read this manual

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

- Some related tips and notes are explained in “More about this monitor” (see pages 33 – 35).
- Button operations are mainly explained with the illustrations as follows:

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

Contents

How to reset your monitor.....	4	DVD/VCD/JPEG special functions ...	21
How to forcibly eject a disc.....	4	Selecting audio languages	21
How to read this manual.....	4	Selecting subtitles.....	21
Precautions.....	6	Selecting the multi-angle views.....	21
Widescreen monitor	7	Disc menu operations	22
Parts identification.....	7	Zoom in.....	22
Remote controller — RM-RK230	8	On-Screen disc operations.....	23
Main elements and features	8	Basic on-screen bar operations	24
Headphones — KS-HP2.....	10	Basic control screen operations	26
Main elements and features	10	List screen operations	27
Basic operations	11	DVD setup menu	28
Adjustments	13	Basic setting procedure.....	28
Using the monitor menu	13	Maintenance	31
Changing the aspect ratio	15	Language codes.....	32
Playable discs	17	More about this monitor	33
Disc operations	18	Troubleshooting	37
Playing a disc	18	Specifications.....	39
Starting playback	18		
Basic operations.....	19		

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....

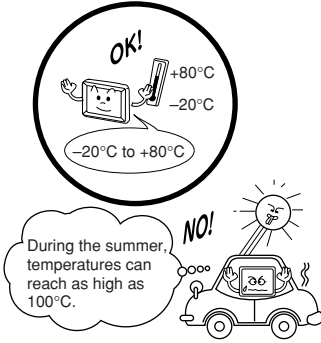
If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Precautions

Cautions for handling the liquid crystal panel

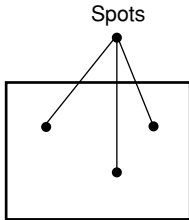
Do not expose the liquid crystal panel to direct sunlight.

- Storage temperature range: -20°C to $+80^{\circ}\text{C}$



When the liquid crystal panel reaches high temperatures or low temperatures, chemical changes occur within the liquid crystal panel which may cause it to malfunction.

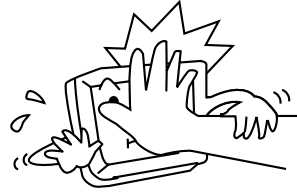
The red spots, blue spots and green spots on the panel surface are a normal characteristic of liquid crystal panels, and not a problem.



Note:

The liquid crystal panel is built with very high precision technology and has at least 99.99% effective image pixels. Be aware that on 0.01% of the panel there may be missing or constantly lit pixels.

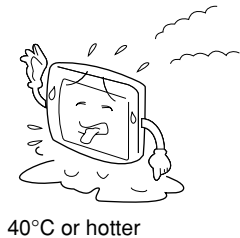
Do not drop the liquid crystal panel or strike it sharply.



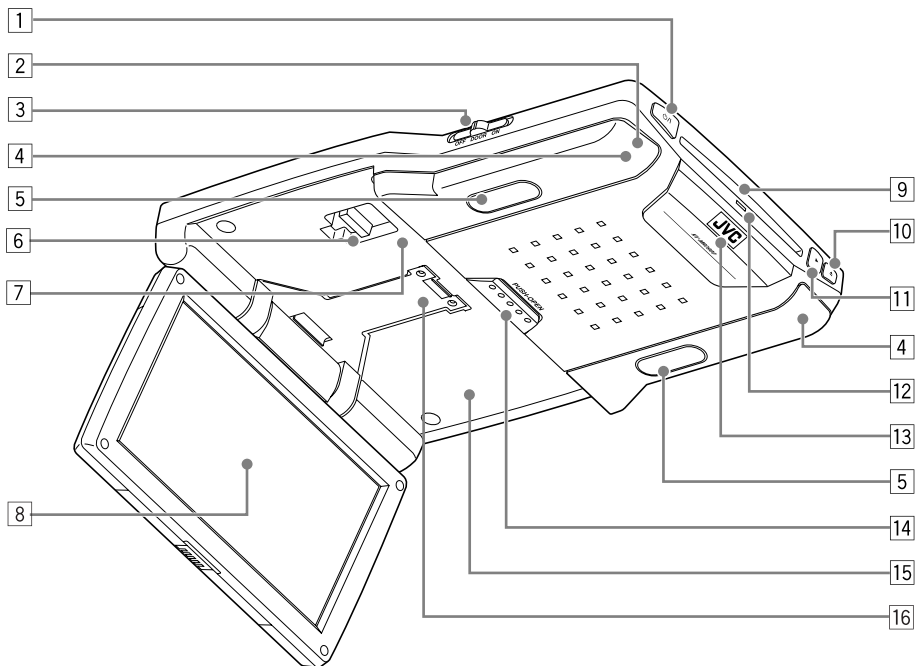
When the temperature is very cold or very hot, the image may not appear clearly or may move slowly.

The image may not be synchronized with the sound or the image quality may decline in such environments. Note that this is not a malfunction or problem.

- Usage temperature range: 0°C to $+40^{\circ}\text{C}$



Parts identification

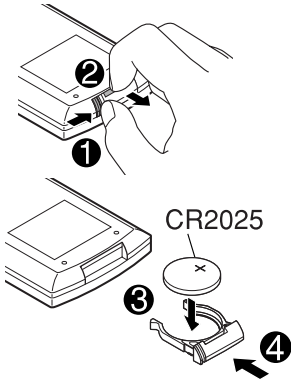


- | | |
|---|--|
| 1 \odot/I (standby/on) button | 8 Screen (Liquid crystal panel) |
| • Turns on the power if pressed. | 9 Disc loading slot |
| • Turns off the power if pressed and held. | 10 ▲ (eject) button |
| 2 Remote sensor | 11 ► (play) button |
| 3 Dome light switch | 12 Disc loading lamp |
| • See “To activate the door sensor” on page 12. | 13 White LED |
| 4 IR transmitters | 14 PUSH-OPEN button |
| 5 Dome lights | 15 Screen compartment |
| 6 Arm lock lever | 16 Screen arm |
| 7 Reset button | |

When you watch the screen at an angle, the picture might not be clear. This is not a malfunction. The finest picture can be seen when you watch the screen straight-on.

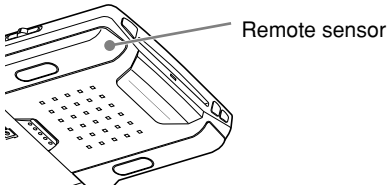
Remote controller — RM-RK230

Installing the lithium coin battery (CR2025)



Before using the remote controller:

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

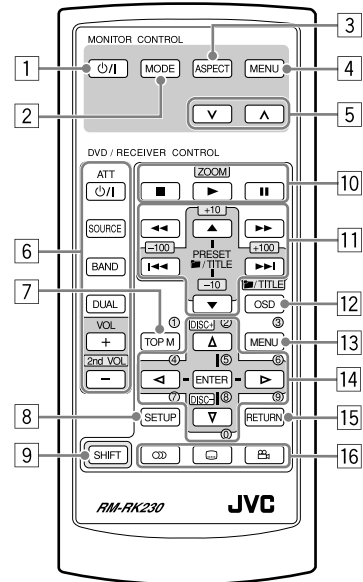


- Do not expose the remote sensor to strong light (direct sunlight or artificial lighting).

Warning:

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

Main elements and features



MONITOR CONTROL

- 1 \odot/I (standby/on) button
 - Turns on the power if pressed.
 - Turns off the power if pressed and held.
- 2 MODE button
 - Selects the playback source.
- 3 ASPECT button
 - Changes the aspect ratio of the screen.
- 4 MENU button
 - Calls up the menu, then selects the adjustable menu items.
- 5 ∇/\wedge buttons
 - Adjust the level of the selected item or select an appropriate setting for selected item.

DVD/RECEIVER CONTROL

- 6 Receiver control buttons*1
 - ϕ /I ATT (standby/on attenuator) button
 - SOURCE button
 - BAND button
 - DUAL button
 - VOL + / - (2nd VOL +/-) buttons
- 7 TOP M (menu) button*2
 - Displays the DVD and VCD*3 disc menu.
- 8 SETUP button*2
- 9 SHIFT button
- 10 Disc basic operation buttons
 - (stop), ► (play), || (pause)
 - ► (play) button functions as ZOOM button when pressed with SHIFT button.
- 11 Advanced disc operation buttons
 - ■/TITLE ▲ / ▼*4
 - Select the titles (for DVD) or folders (for MP3/WMA/JPEG)*5.
 - |◀◀ / ▶▶| (reverse skip/forward skip)*6
 - ◀◀ / ▶▶ (reverse search/forward search)*7
- 12 OSD button
 - Displays the on-screen bar.
 - Also functions as ■/TITLE button when pressed with SHIFT button.
 - You can directly select folders (for MP3/WMA/JPEG) or titles (for DVD) using the number buttons (see right column).
- 13 MENU button*2
 - Displays the DVD and VCD*3 disc menu.
- 14 Menu operation buttons*2
 - Cursor (Δ , ∇ , \triangleleft , \triangleright) and ENTER
- 15 RETURN button*2
- 16 DVD/VCD special function buttons
 - DVD/VCD: (audio)
 - DVD: (subtitle), (angle)

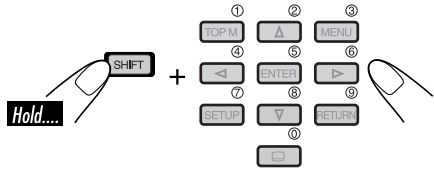
*1 Controllable only if your car receiver which is connected to this monitor is one of the JVC receivers.

*2 These buttons function as the number buttons when pressed with SHIFT button.

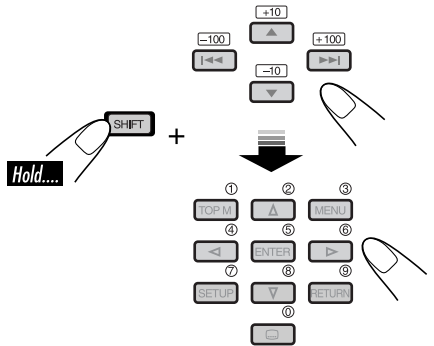
*3 Only when PBC is not in use.

How to select a number

- To select a number from 0 – 9:



- To select a number greater than 9:



- +100/-100 buttons used only for searching MP3/WMA/JPEG tracks number greater than 99.

*4 These buttons do not function as PRESET ▲ / ▼.

*5 These buttons function as the +10/-10 buttons when pressed with SHIFT button.

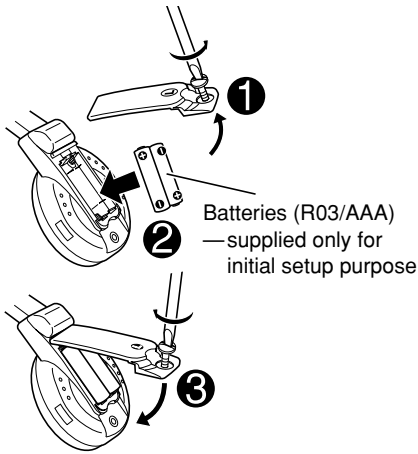
*6 These buttons function as the +100/-100 buttons when pressed with SHIFT button.

*7 Not used for MP3/WMA/JPEG operations.

Headphones — KS-HP2

You can listen to the playback sounds with cordless headphones—KS-HP2.

■ Installing the batteries



CAUTIONS:

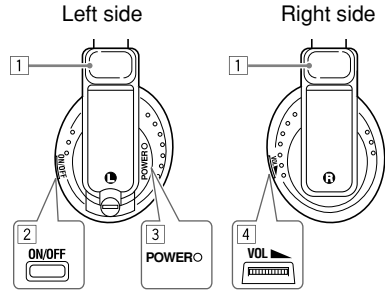
- The supplied batteries are not rechargeable. DO NOT recharge them; otherwise, battery leakage or explosion may result.
- Insert the batteries with the correct polarity “+” and “-” to prevent the battery leakage or explosion.

Before using the cordless headphones:

The headphones give best results when used within about 2 m from the transmitter. These headphones need to receive infrared (IR) signals sent from IR transmitters on the monitor. Therefore, if you use the headphones where the signals cannot be received in a straight line of sight, noises may be generated.



Main elements and features



- 1 IR sensors
 - DO NOT cover the IR sensors, as reception will become poor.
- 2 ON/OFF button
 - The power automatically shuts off in the following cases:
 - The headphones are used for about 4 hours.
 - No signal is received for about 4 minutes.
 - You can turn on the power again by pressing the button.
- 3 POWER lamp
- 4 Volume control

Playback sounds are transmitted through IR transmitters to the cordless headphones. When using the headphones, set the monitor menu item “IR” to “ON.” (See page 14.)

WARNING:

DO NOT use the headphones while driving. Shutting out all outside sounds while driving is dangerous and may result in a traffic accident.

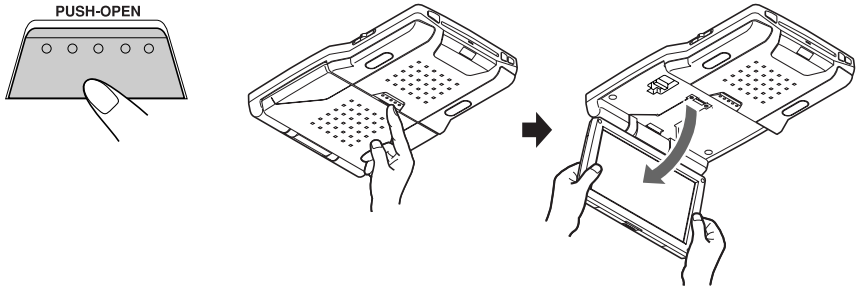
Basic operations

Preparation

Before operating the unit, make sure that all external components are correctly connected and installed.

1 Open the liquid crystal panel.

Press PUSH-OPEN until the liquid crystal panel is unlocked, then open the liquid crystal panel by both hands.



CAUTION:

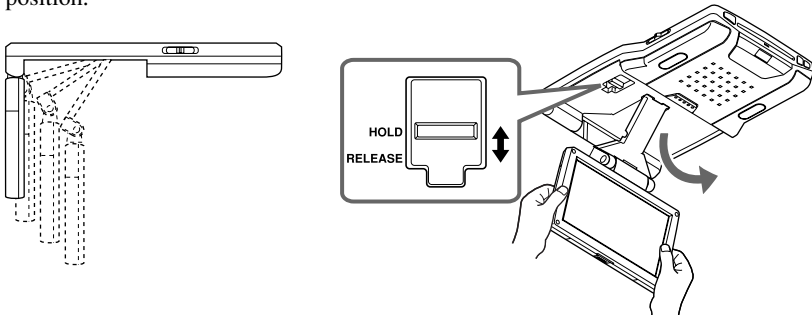
- When not in use, close the liquid crystal panel and store it into the compartment; otherwise, it may obstruct the visibility through the rearview mirror.
- Do not touch the surface of the liquid crystal panel directly.

When closing the liquid crystal panel, store it in the screen compartment until it is locked.

To change the monitor position

You can select a monitor position from the four positions.

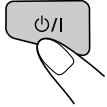
- 1 Slide the arm lock lever to RELEASE, then pull down or push up the monitor.
- 2 Slide the arm lock lever to HOLD, then remove the screen arm to the nearest locking position.



When closing the liquid crystal panel, push up the monitor to the highest position.

To be continued....

2 Turn on the power.

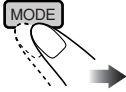


Monitor



Remote control

3 Select the playback source.



Each time you press the button, the playback source changes as follows:



4 Operate the playback source you selected.

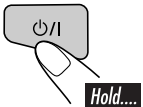
To operate the built-in DVD player, see “Disc operations” on page 18.

To operate the external components, refer to the manuals for the connected components.

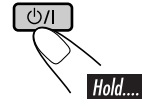
5 Adjust the volume on the car receiver.

- When using the headphones, adjust its volume level.

To turn off the power



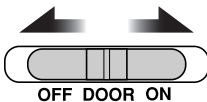
Monitor



Remote control

- When using the headphones, turn off the power after turning off the headphones.

To activate the door sensor



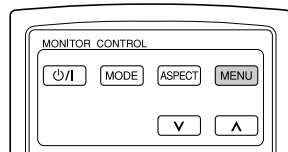
- **OFF:** Turns off the dome lights.
- **DOOR:** Activates the door sensor which turns on the dome lights when a door is open.
- **ON:** Turns on the dome lights.

Using the monitor menu

You can make your own display or sound adjustments using the menu.

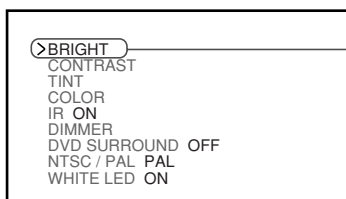
- For the adjustable items, see the next page.

*The Remote controller—RM-RK230 has two MENU buttons.
In this section, using MENU button at MONITOR CONTROL.*



Basic procedure

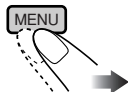
1 Call up the menu.



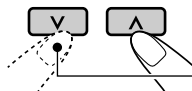
Current menu item

Menu selection goes off if other operations are done or no operation is done for about 5 seconds.

2 Select an item you want to adjust.



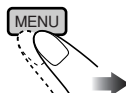
3 Adjust the level of the selected item (or select an appropriate setting for the selected item).



Not used for changing the "DVD SURROUND" setting.

4 Exit from the menu.

Press the button repeatedly until the menu is erased.



Adjustable items on the monitor menu

BRIGHT:	Adjust this if the picture is too bright or too dark. <ul style="list-style-type: none"> • Adjustable range: -10 to +11 • Initial level: 0 (center)
CONTRAST:	Control the degree of difference between the lightest and darkest parts of the picture. <ul style="list-style-type: none"> • Adjustable range: -10 to +11 • Initial level: 0 (center)
TINT:	Adjust this if the human skin color is unnatural. <ul style="list-style-type: none"> • Adjustable range: -10 to +11 • Initial level: 0 (center)
COLOR:	Adjust the color of the picture—lighter or darker. <ul style="list-style-type: none"> • Adjustable range: -10 to +11 • Initial level: 0 (center)
IR*:	Set to “ON” when you listen to the playback sounds using the cordless headphones. <ul style="list-style-type: none"> • Selectable settings: ON, OFF • Initial setting: ON
DIMMER:	Adjust the light of the screen and the white LED when you turn on the headlights. <ul style="list-style-type: none"> • Adjustable range: -5 to +5 • Initial level: 0 (center)
DVD SURROUND:	This function allows you to get a surround effect from your stereo system. When connecting a receiver incompatible with the multi-channel sources, you can enjoy the virtual surround sound with your 2-channel stereo system. If you turn off the monitor, the setting is initialized. <ul style="list-style-type: none"> • Selectable settings: OFF, ACTION, DRAMA, THEATER <ul style="list-style-type: none"> – ACTION: Suitable for action movies and sports programs. – DRAMA: Creates natural and warm sound. Enjoy movies in a relaxed mood. – THEATER: Enjoy sound effects like in a major theater. • Initial setting: OFF
NTSC/PAL:	Select the color system to match to the incoming signals. <ul style="list-style-type: none"> • Selectable settings: PAL, NTSC • Initial setting: PAL Turn off then on the power to activate a new setting when you change the setting.
WHITE LED:	Light on or off the white LED when you turn on the monitor. <ul style="list-style-type: none"> • Selectable settings: ON, OFF • Initial setting: ON

* Turn off the headphones before changing the “IR” setting.

Changing the aspect ratio

You can select an appropriate aspect ratio for the playback video signals.

Basic procedure

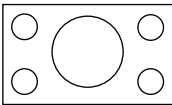
Each time you press the button, aspect ratio change.



Changeable aspect ratio

When incoming 16:9 video signal:

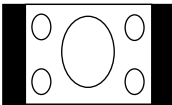
FULL:



Pictures are fully shown on the screen.

- In some cases, the black bars may be shown at the top and bottom sides of the screen.

NORMAL:



Pictures are reduced horizontally.

- The black bars will be shown at the left and right sides of the screen.
- In some cases, the black bars may be shown also at the top and bottom sides of the screen.

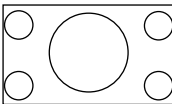
JUST:



The middle of pictures are reduced horizontally, and the left and right side of the picture enlarged horizontally.

- In some cases, the black bars may be shown at the top and bottom sides of the screen.

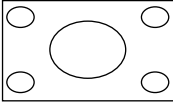
ZOOM:



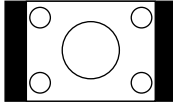
Pictures are enlarged on the screen so that no black bars will be shown on the screen. (The entire picture cannot be shown on the screen.)

To be continued....

When incoming 4:3 video signal:

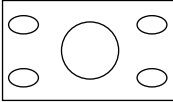
FULL:

Pictures are enlarged horizontally and are fully shown on the screen.

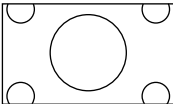
NORMAL:

Pictures are shown at the center of the screen.

- The black bars will be shown at the left and right sides of the screen.

JUST:

Pictures are enlarged horizontally. The extension ratio increases toward the both sides of the screen.

ZOOM:

Pictures are enlarged on the screen so that no black bars will be shown on the screen. (The entire picture cannot be shown on the screen.)

Playable discs

Discs you can play

You can play back the following discs—12 cm and 8 cm—on the built-in DVD player:

- **DVD Video:** Recorded in the NTSC or PAL color system with Region Code “3” (see below).
 - DVD-R/DVD-RW recorded in the DVD Video format can also be played (see page 33).
- **Video CD (VCD)/audio CD**
- **MP3/WMA/JPEG:** Recorded either in CD-R/CD-RW or DVD-R/DVD-RW/DVD-ROM.
 - CD-R/CD-RW: Compliant with ISO 9660 Level 1, ISO 9660 Level 2, Romeo, and Joliet.
 - DVD-R/DVD-RW/DVD-ROM: Compliant with UDF-Bridge Format*1.

On some discs, the actual operations may be different from what is explained in this manual.

Discs cannot be played back

DVD-Audio, DVD-ROM (data), DVD-RAM, DVD-R/DVD-RW recorded in the DVD-VR format, CD-ROM, CD-I (CD-I Ready), Photo CD, etc.

- Playing back these discs will generate noise and damage the speakers.

Note on Region Code:

DVD players and DVD Video discs have their own Region Code numbers. This unit can only play back DVD discs whose Region Code numbers include “3.”

Examples:



If you insert a DVD Video disc of an incorrect Region Code

“REGION CODE ERROR!” appears on the screen. The disc will eject automatically.

Caution for DualDisc playback

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

Digital audio formats

The unit can play back the following digital audio formats.

Linear PCM: Uncompressed digital audio, the same format used for CDs and most studio masters.

Dolby Digital *2: Compressed digital audio, developed by Dolby Laboratories, which enables multi-channel encode to create the realistic surround sound.

DTS *3 (Digital Theater Systems):

Compressed digital audio, developed by Digital Theater Systems, Inc., which enables multi-channel like Dolby Digital. As the compression ratio is lower than for Dolby Digital, it provides wider dynamic range and better separation.

MPEG Audio: Another compressed digital audio which also enables multi-channel encode to create the realistic surround sound. However, this System downmix the multi-channel signals into 2 channels (decoded PCM) and play it back.

*1 A hybrid file system used to provide compatibility with ISO 9660 for accessing any type of files on the disc. (UDF stands for Universal Disk Format.)

*2 Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

*3 “DTS” and “DTS 2.0 + Digital Out” are trademarks of Digital Theater Systems, Inc.

“DVD Logo” is a trademark of DVD Format/Logo Licensing Corporation registered in the US, Japan and other countries.

Disc operations

Playing a disc

The disc type is automatically detected, and playback starts automatically (for DVD: automatic start depends on its internal program).

If the current disc is an audio CD, CD Text, MP3/WMA, JPEG, or VCD without PBC, all tracks will be played repeatedly until you change the source or eject the disc.

- If a title list or disc menu appears while playing a DVD or VCD with PBC, see “Disc menu operations” on page 22.

The following marks are used to indicate the playable discs....



DVD Video



Video CD with PBC



Video CD
with/without PBC



Audio CD/
CD Text



MP3/WMA disc



JPEG disc



All discs listed here

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

- For DVD playback, you can change the setup menu setting as you like. (See pages 28 – 30.)
- For DVD/CD playback, using the remote controller is more attractive. You can enjoy more functions.

If “⊘” appears on the monitor when pressing a button, the disc cannot accept an operation you have tried to do.

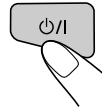
- In some cases, without showing “⊘,” operations will not be accepted.

Starting playback

1 Open the liquid crystal panel.

- You can play a disc even if the monitor is closed.

2 Turn on the power.



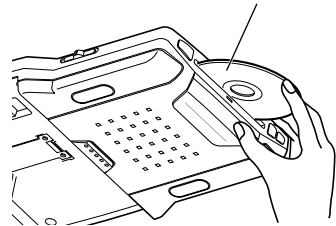
Monitor



Remote control



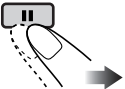
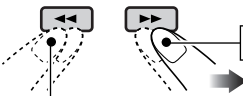







3 Insert a disc into the loading slot.

Playback (shining) side facing down



- When a disc is inserted into the loading slot, the power comes on, then “DISC” is selected as the playback source automatically.

Basic operations

Operations	Next operation
<p>To stop play temporarily</p> 	<p>Playback pauses.</p> <ul style="list-style-type: none"> For JPEG discs: pressing <i>ENTER</i> will also pause the picture on the monitor.  <hr/> <p>A still picture appears.</p> <p>(A) Frame by frame playback</p>  <p>(B) Slow motion playback</p>  <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px;">▶ 1/32 ⇒ 1/16 ⇒ 1/8 ⇒ 1/4 ⇒ 1/2</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px;">◀ 1/32 ⇒ 1/16 ⇒ 1/8 ⇒ 1/4 ⇒ 1/2</div> <ul style="list-style-type: none"> No sound comes out during Slow Motion Playback. When playing a VCD, Reverse Slow Motion Playback is prohibited. <p>To resume normal play:</p>  
<p>To replay the previous scenes—One Touch Replay</p> 	<p>The playback position moves back about 10 seconds before the current position.</p>  <ul style="list-style-type: none"> This function works only within the same title. For some DVDs, this function does not work.
<p>To stop playback</p> 	<p>When you start playback again, playback starts from where it has been stopped (Resume play).</p>  <hr/> <p>When you start playback again, playback starts from the beginning of the last playing track.</p> 

• During play, on-screen guide icons appear on the monitor for a while (see page 35).

To eject the disc



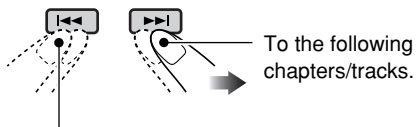
You can eject the disc even when the monitor is turned off.

To be continued....

To go to the next or previous chapters/tracks



- For DVD: During play or pause



To the following chapters/tracks.

To go back to the beginning of the current chapter/track, then the previous chapters/tracks.

To fast-forward or reverse the chapter /track

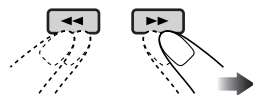


Fast-forwards.

Reverses.

* The search speed changes to x2 ⇔ x10 for all discs (DVD, VCD, CD), but the information shown on the monitor is only for DVD/VCD.

To forward or reverse search the chapter /track



The information shown is only for DVD/VCD:

▶▶ x2 ⇔ x5 ⇔ x10 ⇔ x20 ⇔ x60

◀◀ x2 ⇔ x5 ⇔ x10 ⇔ x20 ⇔ x60

- To resume normal speed



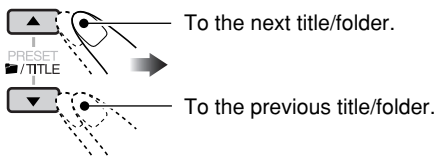
To locate a particular title /chapter / track directly



- For DVD: During play or pause—select a chapter. During stop—select a title.
- For VCD: While PBC (see page 22) is not in use.
- For MP3/WMA/JPEG: Select a track within the same folder.

Select the number corresponding to the item you want (see page 9).

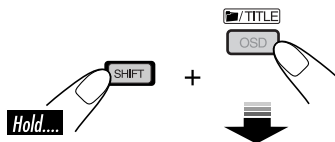
To locate a title /folder



To the next title/folder.

To the previous title/folder.

To locate a particular title / folder



Within 10 seconds, press the number buttons (see page 9).

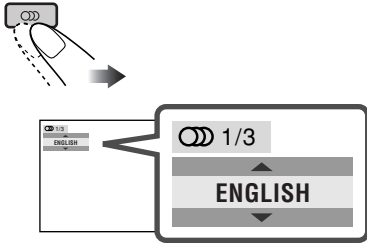
- For MP3/WMA/JPEG discs: To directly select the folders using the number button(s), it is required that folders be assigned 2 digit numbers at the beginning of their folder names—01, 02, 03, and so on.

DVD/VCD/JPEG special functions

Selecting audio languages

For DVD:

You can select the language to listen to if the disc has multiple audio languages.

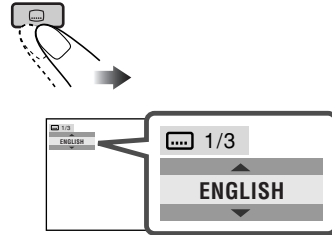


Ex.: When the disc has 3 options

Selecting subtitles

You can select the language of the subtitle to be shown on the monitor.

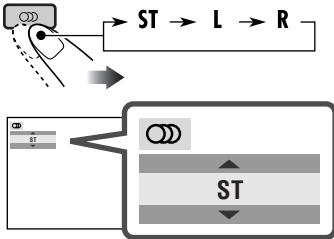
- You can set the initial subtitle language using the setup menu (see page 29).



Ex.: When the disc has 3 options

For VCD:

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



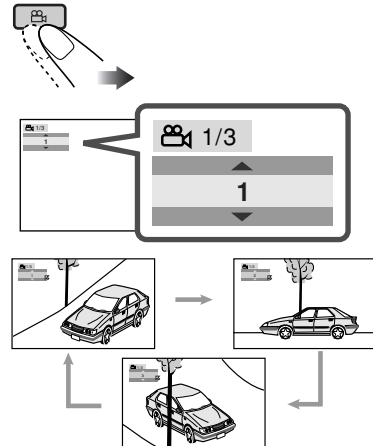
ST: To listen to normal stereo (left/right) playback.

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

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

Selecting multi-angle views

You can view the same scene at different angles if the disc has multi-angle views.



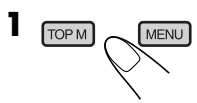
Ex.: When the disc has 3 multi-angle views

- For some DVDs and VCDs, changing the subtitle language, audio language (or audio channel) without using the disc menu is prohibited.

Disc menu operations

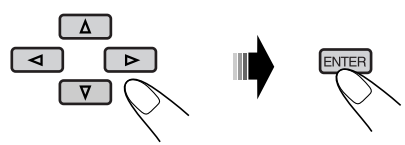
Menu-driven playback is possible while playing back a DVD with menu-driven features or a VCD with the PBC (PlayBack Control).

While playing a DVD



A title list or disc menu will appear on the monitor.

2 Select the item you want on the menu.

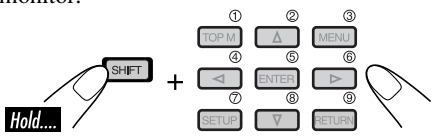


Selected item starts playback.
• On some discs, you can also select items using the corresponding number buttons.

While playing a VCD



• When a list of items is displayed on the monitor.



• To select a number greater than 9, see “How to select a number” on page 9.

To return to the previous menus

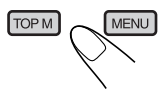


• For some discs, you can also move between the menus by pressing ◀◀ / ▶▶.

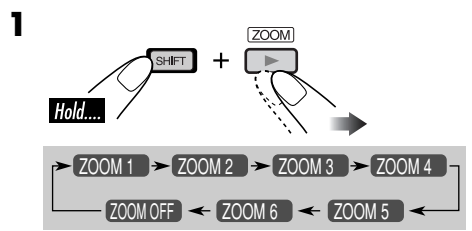
Canceling the PBC playback

- 1
- 2 Select a track to start normal playback using the number buttons (see page 9).

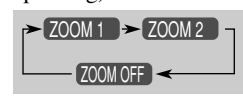
To resume the PBC function



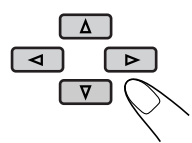
Zoom in



• For JPEG disc (effective only when pausing):



2 Move the zoomed-in portion.



• For JPEG files:
You cannot move the zoomed-in position when the entire picture is displayed on the monitor.

To cancel zoom, select “ZOOM OFF” in step 1.

On-Screen disc operations

About the On-Screen Bar

You can check the disc information and use some functions through the on-screen bar.

- For audio CD, CD Text, and MP3/WMA/JPEG disc you can also use the control screen and list screen (see pages 26 and 27).

On-Screen bars



* Only for DTS audio CD

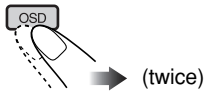
- Disc type
 - Audio signal format type (for DVD and DTS audio CD)
 - PBC (only for VCD)
- Playback information
 - T02-C03** Current title/chapter
 - TRACK 01** Current track
 - TOTAL** Elapsed playing time of the disc
 - T. REM** Remaining disc time (for VCD)/remaining title time (for DVD)
 - TIME** Elapsed playing time of the current chapter/track
 - REM** Remaining time of the current chapter/track
- Playback condition
 - Playback
 - Forward/reverse search
 - Forward/reverse slow-motion
 - Pause
 - Stop
- Operation icons
 - TIME** Time indication
 - Time Search—Enter the elapsed playing time of the current title or of the disc.
 - TITLE** Title Search
 - CHAP** Chapter Search
 - TRACK** Track Search
 - Change the audio language or audio channel.
 - Change the subtitle language.
 - Change the view angle.
 - OFF** Repeat play (for DVD)
 - REPEAT** Repeat play (for other discs)
 - INTRO** Intro play
 - RANDOM** Random play
- Current playback mode

To be continued...

Basic on-screen bar operations

1 Display the on-screen bar.

- For DVD/VCD:

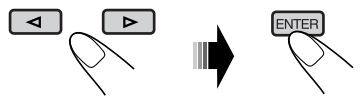


- For other discs:

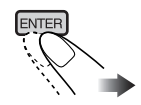


When a JPEG disc is loaded, skip to step 3.

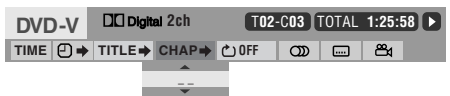
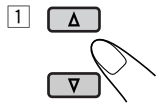
2 Select an item.



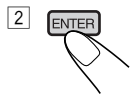
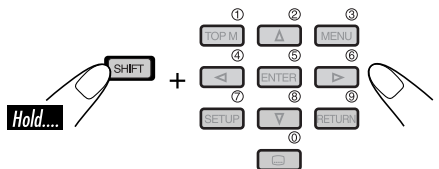
3 Make a selection.



- If pop-up menu appears....



or



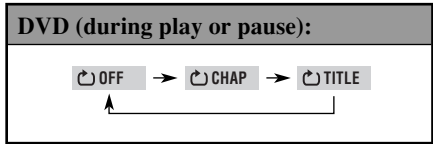
To erase the on-screen bar



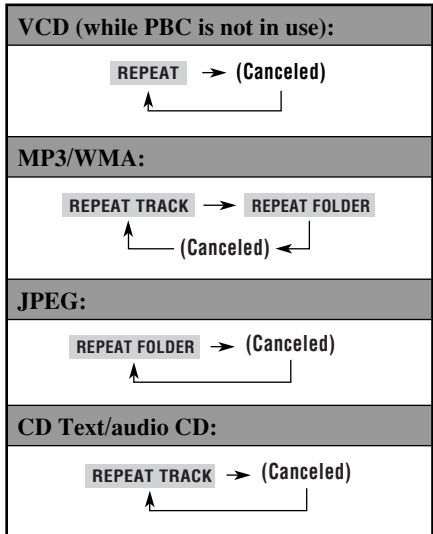
- The on-screen bar for a CD or MP3/WMA/JPEG disc automatically disappears in a few seconds after the last operation.

- The selectable options for Repeat/Intro/Random plays:

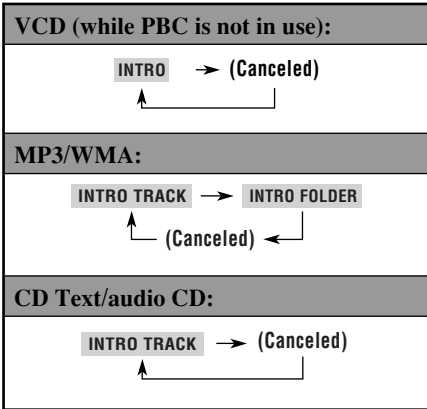
OFF You can repeat the current title or chapter.



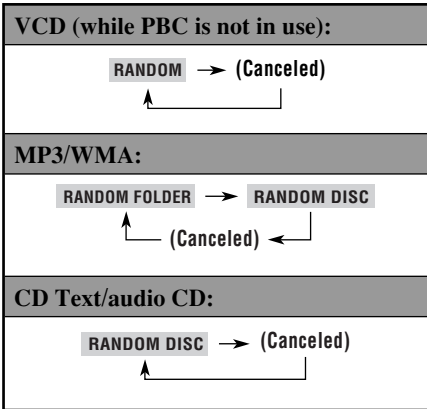
REPEAT You can repeat the current track (except for JPEG) or the tracks in the current folder (only for MP3/WMA/JPEG).



INTRO You can play the first 15 seconds of all tracks in the disc, or in the current folder (only for MP3/WMA).



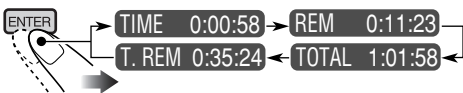
RANDOM You can randomly play all tracks in the disc, or in the current folder (only for MP3/WMA).



Refer also page 24 for the following operations.

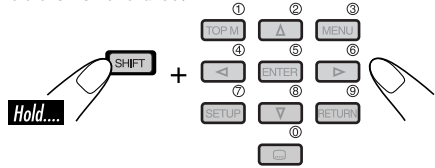
To change the time information

- 1 Select **TIME**.
- 2 Change the time information.



To search for a particular point by playing time

- For VCD: while PBC is not in use.
- 1 Select **Hold...**.
 - 2 Enter the elapsed playing time of the current title or of the disc.



- Ex.:
- To enter 1 (hours): 02 (minutes): 00 (seconds), press 1, 0, 2, 0, then 0.
 - To enter 54 (minutes): 00 (seconds), press 0, 5, 4, 0, then 0.

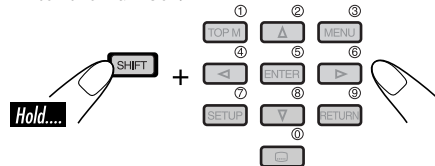
- It is always required to enter the hour digit (even "0" hour), but it is not required to enter trailing zeros (the last two digits in the examples above).
- To correct a misentry, press...
- You can also specify the elapsed playing time by using Δ / ∇ / \triangleleft / \triangleright .

- 3 Finish the procedure.



To search for a particular title/chapter/track

- 1 Select **TITLE**, **CHAP**, or **TRACK**.
- 2 Enter the number.



- To correct a misentry, press the number button until the correct number is entered.

- 3 Finish the procedure.



Basic control screen operations

You can search for and play the desired items through the control screen.

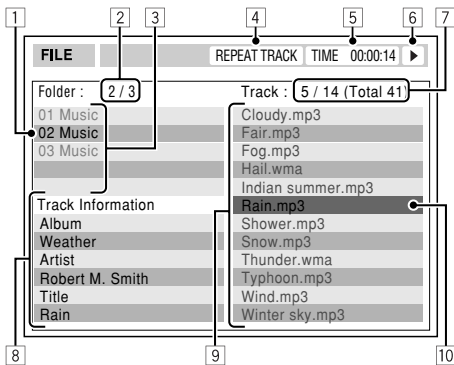
For MP3/WMA/CD Text/audio CD:

The control screen automatically appears on the monitor when you insert a disc.

JPEG:

Press TOP M (menu), MENU, or ■. Playback stops and the control screen appears.

MP3/WMA/JPEG control screen

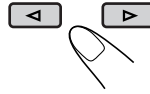


Ex.: Control screen for MP3/WMA

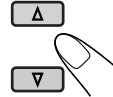
- 1 Current folder
- 2 Current folder number/total folder number
- 3 Folder list
- 4 Selected playback mode
- 5 Elapsed playing time of the current track (only for MP3/WMA)
- 6 Operation mode icon (only for MP3/WMA)
▶ (play), ■ (stop), || (pause), ►► (fast-forward), ◀◀ (reverse)
- 7 Current track number/total number of tracks in the current folder (total number of tracks on the disc)
- 8 Track information (only for MP3/WMA)
- 9 Track list
- 10 Current track (highlighted bar)

To select a folder or track

- 1 Select "Folder" column or "Track" column on the control screen.



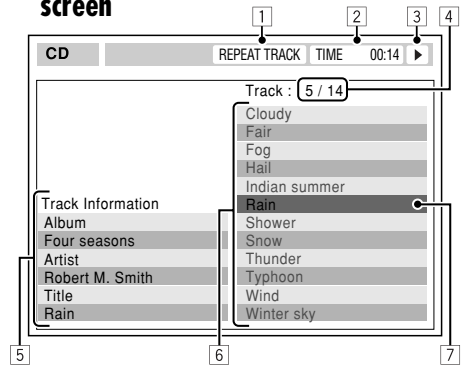
- 2 Select a folder or track.



- If playback does not start, press ▶ or ENTER.

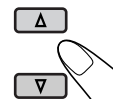
- For JPEG discs: Pressing ENTER will pause the selected picture on the monitor.

CD Text/audio CD control screen



- 1 Selected playback mode
- 2 Elapsed playing time of the current track
- 3 Operation mode icon
▶ (play), ■ (stop), || (pause), ►► (fast-forward), ◀◀ (reverse)
- 4 Current track number/total number of tracks on the disc
- 5 Track information
- 6 Track list
- 7 Current track (highlighted bar)

To select a track



- If playback does not start, press ▶ or ENTER.

List screen operations

You can display the folder list/track list before starting play. On this list, you can confirm the contents and start playing a disc.

Folder/track list screens



Folder list (MP3/WMA/JPEG)

1		2		3	
Folder : 153/240		Track 154/198		Page : 4/6	
fol130	fol140	fol150	fol160		
fol131	fol141	fol151	fol161		
fol132	fol142	fol152	fol162		
fol133	fol143	fol153	fol163		
fol134	fol144	fol154	fol164		
fol135	fol145	fol155	fol165		
fol136	fol146	fol156	fol166		
fol137	fol147	fol157	fol167		
fol138	fol148	fol158	fol168		
fol139	fol149	fol159	fol169		

4

Ex.: Folder list for MP3/WMA

Track list (MP3/WMA/JPEG/CD Text/audio CD)

1		2		3	
Folder : 153/240		Track 154/198		Page : 4/6	
file0131.mp3	file0141.mp3	file0151.wma	file0161.wma		
file0132.mp3	file0142.mp3	file0152.mp3	file0162.mp3		
file0133.wma	file0143.mp3	file0153.wma	file0163.wma		
file0134.mp3	file0144.mp3	file0154.mp3	file0164.mp3		
file0135.mp3	file0145.wma	file0155.mp3	file0165.wma		
file0136.wma	file0146.mp3	file0156.mp3	file0166.wma		
file0137.wma	file0147.wma	file0157.mp3	file0167.wma		
file0138.mp3	file0148.mp3	file0158.wma	file0168.wma		
file0139.mp3	file0149.wma	file0159.wma	file0169.mp3		
file0140.wma	file0150.wma	file0160.wma	file0170.wma		

4

Ex.: Track list for MP3/WMA

- 1 Current folder number/total folder number (only for MP3/WMA/JPEG)
- 2 Current track number/total number of tracks in the current folder (for MP3/WMA/JPEG) or in the disc (for CD Text/audio CD)
- 3 Current page/total number of the pages included in the list
- 4 Current folder/track (highlighted bar)

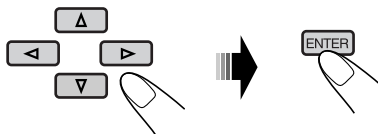
For MP3/WMA/JPEG:

While stop...

1 Display the folder list.

Each time you press the button, the list screen comes on and goes off.

2 Select a folder on the list.

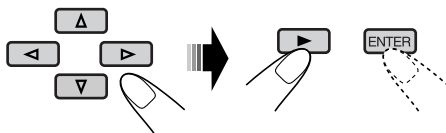


The track list of the selected folder appears.

To go back to the folder list



3 Select a track on the list.



- For JPEG discs: Pressing ENTER will pause the selected picture on the monitor.

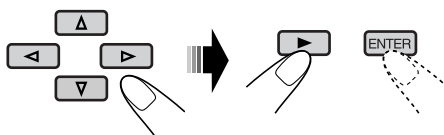
For CD Text/audio CD:

While stop...

1 Display the track list.

Each time you press the button, the list screen comes on and goes off.

2 Select a track on the list.



DVD setup menu

You can store the initial disc playback status.

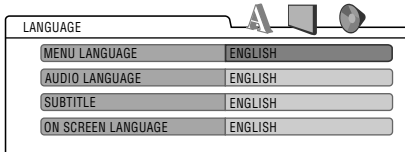
- While playing, no change can be made on the setup menu.

Basic setting procedure

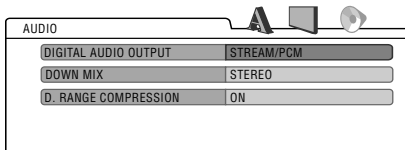
While stop...

1

SETUP



2

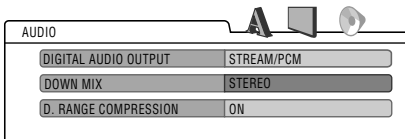


Ex.: When selecting the "AUDIO" menu

3 Select an item you want to set up.

▲

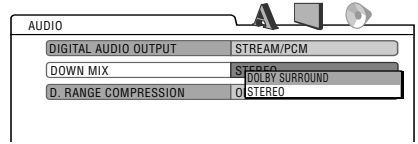
▼



Ex.: When selecting "DOWN MIX"

4

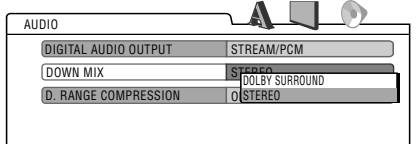
ENTER



5 Select an option.

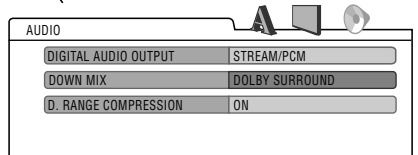
▲

▼



6

ENTER



To set other items on the same menu

Repeat steps 3 to 6.

To set other items on other menus

Repeat steps 2 to 6.

To return to the normal screen

SETUP

A LANGUAGE menu

Item	Contents
MENU LANGUAGE	Select the initial disc menu language.
AUDIO LANGUAGE	Select the initial audio language.
SUBTITLE	Select the initial subtitle language or erase the subtitle (OFF).
ON SCREEN LANGUAGE	Select the language for the setup menu and some indications shown on the monitor.

• For the LANGUAGE settings, see also the language codes list on page 32.

PICTURE menu

Item	Contents
<p>MONITOR TYPE</p> <p>16:9 4:3 LETTER BOX</p> <p>4:3 PAN SCAN</p>	<p>Select the monitor type to watch a wide screen picture on your external monitor.</p> <ul style="list-style-type: none"> • 16:9 : Select this when the aspect ratio of your monitor is 16:9. • 4:3 LETTER BOX : Select this when the aspect ratio of your monitor is 4:3. While viewing a wide screen picture, the black bars appear on the top and the bottom of the screen. • 4:3 PAN SCAN : Select this when the aspect ratio of your monitor is 4:3. While viewing a wide screen picture, the black bars do not appear; however, the left and right edges of the pictures will not be shown on the screen.
<p>OSD POSITION</p> <p>Position 1 Position 2</p>	<p>Select the on-screen bar position on the monitor.</p> <ul style="list-style-type: none"> • 1 : Higher position • 2 : Lower position (Help screen under the DVD setup menu disappears.)
<p>MP3/JPEG</p>	<p>If both MP3/WMA files and JPEG files are recorded on a disc, you can select which files to play.</p> <ul style="list-style-type: none"> • MP3 : Select this for playing MP3/WMA files. • JPEG : Select this for playing JPEG files. <p>Eject the disc and insert it again to make the new setting effective.</p>

To be continued....



AUDIO menu

Item	Contents
DIGITAL AUDIO OUTPUT	<p>Select the signal format to be emitted through the DIGITAL OUT (Optical) terminal. For details, see page 36.</p> <ul style="list-style-type: none"> • PCM ONLY : Select this when connecting an amplifier or a decoder incompatible with Dolby Digital, DTS, MPEG Audio, or connecting to a recording device. • DOLBY DIGITAL/PCM : Select this when connecting an amplifier or a decoder compatible with Dolby Digital. • STREAM/PCM : Select this when connecting an amplifier or a decoder compatible with Dolby Digital, DTS, or MPEG Audio.
DOWN MIX	<p>When playing back a multi-channel DVD disc, this setting affects the signals reproduced through the analog terminals—AV-OUT and cordless headphones (and through the DIGITAL OUT terminal when “PCM ONLY” is selected for “DIGITAL AUDIO OUTPUT”).</p> <ul style="list-style-type: none"> • DOLBY SURROUND : Select this when you want to enjoy multi-channel surround audio by connecting an amplifier compatible with Dolby Surround to this monitor. • STEREO : Normally select this.
D. (Dynamic) RANGE COMPRESSION	<p>You can enjoy a powerful sound at low or middle volume levels while playing a Dolby Digital software.</p> <ul style="list-style-type: none"> • AUTO : Select this to apply the effect to multi-channel encoded software (excluding 1-channel and 2-channel software). • ON : Select this to always use this function.

■ To prevent damage to the exterior

- Do not apply pesticides, benzene, thinner or other volatile substances to the monitor. The cabinet surface primarily consists of plastic materials.
- Do not wipe with benzene, thinner or similar substances because this will result in discoloration or removal of the paint.
- When a cloth with a cleansing chemical is used, follow the caution points.
 - Do not leave the unit in contact with rubber or vinyl products for long periods of time.
 - Do not use cleansers which have polishing granules because this could damage the cabinet.

■ Clean off dirt by wiping lightly with a soft cloth

When the cabinet is very dirty, wipe with a well-wrung cloth dipped in a kitchen cleanser (neutral) thinned by water and then go over the same surface with a dry cloth. (Since there is the possibility of water drops getting inside of the unit, do not directly apply cleanser to the surface.)

■ Moisture condensation

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

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

■ How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

Center holder



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

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

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

■ To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



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

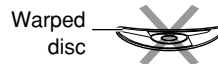
■ To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.



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

Do not use the following discs:



Warped disc



Sticker

Sticker residue



Disc

Stick-on label

Language codes

Code	Language	Code	Language	Code	Language
AA	Afar	IK	Inupiak	RN	Kirundi
AB	Abkhazian	IN	Indonesian	RO	Rumanian
AF	Afrikaans	IS	Icelandic	RW	Kinyarwanda
AM	Ameharic	IW	Hebrew	SA	Sanskrit
AR	Arabic	JI	Yiddish	SD	Sindhi
AS	Assamese	JW	Javanese	SG	Sangho
AY	Aymara	KA	Georgian	SH	Serbo-Croatian
AZ	Azerbaijani	KK	Kazakh	SI	Singhalese
BA	Bashkir	KL	Greenlandic	SK	Slovak
BE	Byelorussian	KM	Cambodian	SL	Slovenian
BG	Bulgarian	KN	Kannada	SM	Samoan
BH	Bihari	KO	Korean (KOR)	SN	Shona
BI	Bislama	KS	Kashmiri	SO	Somali
BN	Bengali, Bangla	KU	Kurdish	SQ	Albanian
BO	Tibetan	KY	Kirghiz	SR	Serbian
BR	Breton	LA	Latin	SS	Siswati
CA	Catalan	LN	Lingala	ST	Sesotho
CO	Corsican	LO	Laothian	SU	Sundanese
CS	Czech	LT	Lithuanian	SW	Swahili
CY	Welsh	LV	Latvian, Lettish	TA	Tamil
DZ	Bhutani	MG	Malagasy	TE	Telugu
EL	Greek	MI	Maori	TG	Tajik
EO	Esperanto	MK	Macedonian	TH	Thai
ET	Estonian	ML	Malayalam	TI	Tigrinya
EU	Basque	MN	Mongolian	TK	Turkmen
FA	Persian	MO	Moldavian	TL	Tagalog
FI	Finnish	MR	Marathi	TN	Setswana
FJ	Fiji	MS	Malay (MAY)	TO	Tonga
FO	Faroese	MT	Maltese	TR	Turkish
FY	Frisian	MY	Burmese	TS	Tsonga
GA	Irish	NA	Nauru	TT	Tatar
GD	Scots Gaelic	NE	Nepali	TW	Twi
GL	Galician	NO	Norwegian	UK	Ukrainian
GN	Guarani	OC	Occitan	UR	Urdu
GU	Gujarati	OM	(Afan) Oromo	UZ	Uzbek
HA	Hausa	OR	Oriya	VI	Vietnamese
HI	Hindi	PA	Panjabi	VO	Volapuk
HR	Croatian	PL	Polish	WO	Wolof
HU	Hungarian	PS	Pashto, Pushto	XH	Xhosa
HY	Armenian	PT	Portuguese	YO	Yoruba
IA	Interlingua	QU	Quechua	ZU	Zulu
IE	Interlingue	RM	Rhaeto-Romance		

More about this monitor

Basic operations

Turning off the power

- If you turn off the power while listening to a disc, disc play will start automatically, next time you turn on the power.

Disc operations

General

- In this manual, words “track” and “file” are interchangeably used when referring to MP3/WMA/JPEG files and their file names.
- This unit can also playback 8 cm discs.
- This unit can only playback audio CD (CD-DA) files if different type of files are recorded in the same disc.
 - The first track will be skipped if a different type of file is detected first.
- When a disc has been loaded, selecting “DISC” for the playback source starts disc play.

Starting playback

- When a disc is inserted upside down, “NO DISC” appears on the screen, then the disc will automatically eject.
- You can play a disc even if the monitor is closed.

Basic operations

- No sound comes out during slow motion playback. When playing a VCD, reverse slow motion playback is prohibited.
- One Touch Replay works only within the same title. (For some DVDs, this function does not work.)
- When playing a DVD/VCD, no sound comes out during Search.
- Reverse search stops automatically when it reaches the beginning of the disc. Playback resumes at normal speed.

DVD/VCD/JPEG special functions

- For some DVDs and VCDs, changing the subtitle language, audio language (or audio channel) without using the disc menu is prohibited.
- While zoomed in, the picture may look coarse.

Playing a DVD-R/DVD-RW or CD-R/CD-RW

- Use only “finalized” discs.
- This unit can play back only the files of the same type which is first detected if a disc includes both audio CD (CD-DA) files and MP3/WMA/JPEG files.
- This unit can play back either MP3/WMA files or JPEG files if a disc includes both kind of files. Set the playback file type on DVD setup menu (page 29) before playing back a disc containing both kind of files.
- Only for CD-R/CD-RW: This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some DVD-R/DVD-RW or CD-R/CD-RW may not play back on this unit because of their disc characteristics, and for the following causes:
 - Discs are dirty or scratched.
 - Moisture condensation occurs on the lens inside the unit.
 - The pickup lens inside the unit is dirty.
 - CD-R/CD-RW on which the files are written with “Packet Write” method.
 - DVD-R/DVD-RW which are not written in UDF-Bridge Format (eg. UDF format or ISO format).
 - There are improper recording conditions (missing data, etc.) or media conditions (stain, scratch, warp, etc.).
- DVD-RW/CD-RW may require a longer readout time since the reflectance of DVD-RW/CD-RW is lower than that of regular discs.

To be continued...

- Do not use the following DVD-R/DVD-RW or CD-R/CD-RW:
 - Discs with stickers, labels, or protective seal stuck to the surface.
 - Discs on which labels can be directly printed by an ink jet printer.
 Using these discs under high temperatures or high humidities may cause malfunctions or damages to discs.
- This unit can play back the files recorded in VBR (variable bit rate).
The files recorded in VBR have a discrepancy in elapsed time display, and do not show the actual elapsed time. Especially, after performing the search function, this difference becomes noticeable.
- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded in an unappropriated format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded with lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA files copy-protected with DRM.
 - WMA files recorded with MBR (Multiple Bit Rate) format.
 - Files which have the data such as WAVE, ATRAC3, etc.

Playing an MP3/WMA disc

- This unit can play back MP3/WMA files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower) recorded in either CD-R/CD-RW or in DVD-R/DVD-RW.
- This unit can show the names of albums, artists (performer), and ID3 Tag (Version 1.0, 1.1, 2.2, 2.3, or 2.4) for MP3 files and WMA files.
- This unit can display only one-byte characters. No other characters can be correctly displayed.
- This unit can play back MP3/WMA files meeting the conditions below:
 - Bit rate: MP3: 32 kbps — 320 kbps
WMA: 32 kbps — 192 kbps
 - Sampling frequency:
 - 48 kHz, 44.1 kHz, 32 kHz (for MPEG-1)
 - 24 kHz, 22.05 kHz, 16 kHz (for MPEG-2)
 - 48 kHz, 44.1 kHz, 32 kHz (for WMA)
 - Disc format: ISO 9660 Level 1/Level 2, Romeo, Joliet, Windows long file name
- The maximum number of characters for file/folder names vary among the disc format used (includes 4 extension characters—<.mp3> or <.wma>).
 - ISO 9660 Level 1: up to 12 characters
 - ISO 9660 Level 2: up to 31 characters
 - Romeo: up to 128 characters
 - Joliet: up to 64 characters
 - Windows long file name: up to 128 characters
- This unit can recognize the total of 1100 files, 250 folders (maximum of 999 files per folder).

Playing a JPEG disc

- This unit can play back JPEG files with the extension code <.jpg> (regardless of the letter case—upper/lower) recorded in either CD-R/CD-RW or in DVD-R/DVD-RW.
- It is recommended that you record a file at 640 x 480 resolution. (If a file has been recorded at a resolution of more than 640 x 480, it will take a long time to be shown.)
- This System can play only baseline JPEG files. Progressive JPEG files or lossless JPEG files cannot be played.
 - Baseline JPEG format: Used for digital cameras, web, etc.
 - Progressive JPEG format: Used for web.
 - Lossless JPEG format: An old type and rarely used now.
- If progressive or lossless JPEG files are played back, a black screen appears. In this case, stop playback and select a baseline JPEG file. Note that it may take a long time to select another file.

- Even if you try to pause the current picture, it may be skipped, then the next picture will pause.
- This unit can recognize the total of 1100 files, 250 folders (maximum of 999 files per folder).

Changing the source

- If you change the source, playback also stops (without ejecting the disc).
Next time you select “DISC” for the playback source, disc play starts automatically.

Ejecting a disc










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

DVD setup menu

- When the language you have selected is not recorded on a disc, the original language is automatically used as the initial language. In addition, for some discs, the initial languages settings will not work as you set due to their internal disc programming.
- While playing (or pausing), you cannot change these languages.
After you change any of these language settings, eject the disc and insert it (or another disc) again so that your setting takes effect.
- When you select “16:9” for a picture whose aspect ratio is 4:3, the picture slightly changes due to the process for converting the picture width.
- Even if “4:3 PAN SCAN” is selected, the screen size may become “4:3 LETTER BOX” with some DVDs. This depends on how they are recorded.

On-screen guide icons

During play, the following guide icons may appear for a while on the monitor.

-  : Appears at the beginning of a scene containing multi-audio languages (for DVD only).
-  : Appears at the beginning of a scene containing multi-subtitle languages (for DVD only).
-  : Appears at the beginning of a scene containing multi-angle views (for DVD only).
-  : Play
-  : Pause
-  : Forward slow motion playback (for DVD and VCD only)
-  : Reverse slow motion playback (for DVD only)
-  : Forward search
-  : Reverse search

About sounds reproduced through the terminals

- Through the analog terminals (AV-OUT/cordless headphones): 2-channel signal is emitted. When playing a multi-channel encoded disc, multi-channel signals are downmixed. (AUDIO—DOWN MIX: see page 30.)
- Through DIGITAL OUT (optical):
 Digital signals (Linear PCM, Dolby Digital, DTS, MPEG Audio) are emitted through this terminal. (For more details, see table below.)
 To reproduce multi-channel sounds such as Dolby Digital, DTS, and MPEG Audio, connect an amplifier or a decoder compatible with these multi-channel sources to this terminal, and set “DIGITAL AUDIO OUTPUT” correctly. (See page 30.)

Output signals through the DIGITAL OUT terminal

Output signals are different depending on the “DIGITAL AUDIO OUTPUT” setting on the setup menu (see page 30).

DIGITAL AUDIO OUTPUT Playback Disc		Output Signals		
		STREAM/PCM	DOLBY DIGITAL/PCM	PCM ONLY
DVD	48 kHz, 16/20/24 bits Linear PCM	48 kHz, 16 bits stereo Linear PCM		
	96 kHz, Linear PCM			
	with DTS	DTS bitstream	48 kHz, 16 bits stereo Linear PCM	
	with Dolby Digital	Dolby Digital bitstream		48 kHz, 16 bits stereo Linear PCM
	with MPEG Audio	MPEG bitstream	48 kHz, 16 bits Linear PCM	
Audio CD, Video CD		44.1 kHz, 16 bits stereo Linear PCM		
Audio CD with DTS		DTS bitstream	44.1 kHz, 16 bits stereo Linear PCM	
MP3/WMA		32/44.1/48 kHz, 16 bits Linear PCM		

Troubleshooting

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

	Symptoms	Causes	Remedies
General	<ul style="list-style-type: none"> Colored spots (red, blue and green) appear on the screen. 	This is a characteristic of liquid crystal panels and is not a malfunction.	See "Note" on page 6.
	<ul style="list-style-type: none"> No picture appears and sound is not heard. 	The cord is not connected correctly to the external component.	Connect the cord correctly.
		Correct input mode is not selected.	Select the correct input mode.
	<ul style="list-style-type: none"> The unit does not work at all. 	The built-in microcomputer may have functioned incorrectly due to noise, etc.	Reset the unit (see page 4).
	<ul style="list-style-type: none"> Remote controller does not work. Cordless headphones do not work. 	The battery has lost its charge.	Install a new battery.
		The sensor is exposed to strong light.	Do not expose the sensor to strong light.
<ul style="list-style-type: none"> Howling occurs from the speakers or the headphones. 	It may be caused by a camcorder connected to the monitor.	Camcorder is now in recording mode. Deactivate the recording mode.	
Disc playback	<ul style="list-style-type: none"> "NO DISC" appears on the screen. 	Disc is inserted upside down.	Insert the disc correctly.
	<ul style="list-style-type: none"> CD-R/CD-RW or DVD-R/DVD-RW cannot be played back. Tracks on the CD-R/CD-RW or DVD-R/DVD-RW cannot be skipped. 	CD-R/CD-RW or DVD-R/DVD-RW is not finalized.	<ul style="list-style-type: none"> Insert a finalized CD-R/CD-RW or DVD-R/DVD-RW. Finalize the CD-R/CD-RW or DVD-R/DVD-RW with the component which you used for recording.
			<ul style="list-style-type: none"> The left and right edges of the picture are missing on the screen.

	Symptoms	Causes	Remedies
Disc playback	<ul style="list-style-type: none"> • Sound and picture are sometimes interrupted or distorted. 	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.	
	<ul style="list-style-type: none"> • The playback pictures cannot be shown correctly. 	The color system (NTSC/PAL) is not correct.	Set it correctly (see page 14).
MP3/WMA/JPEG playback	<ul style="list-style-type: none"> • Disc cannot be played back. 	No MP3/WMA/JPEG tracks are recorded on the disc.	Change the disc.
		MP3/WMA/JPEG tracks do not have the extension code <.mp3>, <.wma>, or <.jpg> in their file names.	Add the extension code <.mp3>, <.wma>, or <.jpg> to their file names.
		MP3/WMA/JPEG tracks are not recorded in a compliant format.	Change the disc. Record MP3/WMA/JPEG tracks using a compliant application (see page 17).
		MP3/WMA/JPEG tracks are recorded in DVD+R/DVD+RW media.	Change the disc. Record MP3/WMA/JPEG tracks using DVD-R/DVD-RW media.
	<ul style="list-style-type: none"> • Noise is generated. 	The track played back is not an MP3/WMA file (although it has the extension code <.mp3> or <.wma>).	Skip to another track or change the disc. (Do not add the extension code <.mp3> or <.wma> to non-MP3 or WMA tracks.)
	<ul style="list-style-type: none"> • A longer readout time is required. 	Readout time varies due to the complexity of the folder/file configuration.	Do not use too many hierarchies and folders.
	<ul style="list-style-type: none"> • Tracks 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 tracks are recorded on the disc.	_____	

Specifications

WIDESCREEN MONITOR

Screen:
9 inch liquid crystal panel

Number of pixel:
336 960 pixels
(480 vertical × 234 horizontal × 3)

Drive method:
TFT (Thin Film Transistor) active matrix format

Cordless audio:
Infrared audio transmitter
L-channel: 2.3 MHz
R-channel: 2.8 MHz
Effective listening angle: 30°
Effective range: 2 m

Color system: NTSC/PAL

Input:
Video: RCA pin × 2 circuits
1 V(p-p), 75 Ω
Audio: RCA pin × 2 circuits
1.5 V(rms)

Output:
Video: RCA pin × 1 circuit
1 V(p-p), 75 Ω
Audio: RCA pin × 1 circuit
1.5 V(rms)
DIGITAL OUT: Optical

DVD/CD PLAYER SECTION

Signal detection system: Non-contact optical pickup (semiconductor laser)

Number of channels: 2 channels (stereo)

Frequency response:
DVD, fs=48 kHz/96 kHz: 16 Hz to 22 000 Hz
VCD, CD: 16 Hz to 20 000 Hz

Dynamic range: 93 dB

Signal-to-noise ratio: 95 dB

Wow and flutter: Less than measurable limit

MP3 (MPEG Audio Layer 3):
Max. Bit Rate: 320 kbps

WMA (Windows Media® Audio):
Max. Bit Rate: 192 kbps

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

Allowable storage temperature:
-20°C to +80°C

Dimensions (W × H × D):
Installation size (approx.):
215 mm × 49 mm × 374 mm

Mass (approx.):
2.9 kg (excluding accessories)

CORDLESS HEADPHONES

Type: Open-air type

Driver unit:
30 mm Mylarcone dynamic speaker

Impedance: 16 Ω

Frequency response: 20 Hz to 20 000 Hz

Infrared wavelength: 850 nm ± 50 nm

Power requirements:
DC 3 V (2.4 V to 3.3 V allowance)
(R03/AAA battery × 2)

Mass (approx.):
170 g (except batteries)

Allowable operating temperature:
-30°C to +65°C

Design and specifications are subject to change without notice.

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



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

Refer to page of How to reset your unit

在操作時遇到麻煩了？

請重設本機

參閱如何重設本機之頁

JVC



EN, CT

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0305MNMMDWJEIN

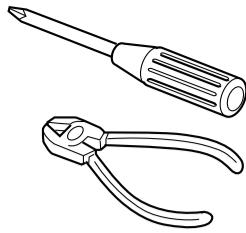
JVC KV-MRD900

Installation/Connection Manual

安裝/連接手冊

การติดตั้ง/คู่มือการติดตั้ง

LVT1342-004A
[A, U, UT]



0305MNMMDWJEIN
EN, CT, TH

ENGLISH

WARNING

Installation requires some special knowledge. Do not install the monitor yourself. Consult a dealer having special knowledge of this kind for safe and reliable installation.

• DO NOT INSTALL THE MONITOR IN A LOCATION WHICH OBSTRUCTS DRIVING, VISIBILITY, SAFETY DEVICE FUNCTION SUCH AS AIR BAGS OR WHICH IS PROHIBITED BY APPLICABLE LAWS AND REGULATIONS.

If the monitor is installed in a location which obstructs forward visibility or operation of the air bag or other safety equipment or which interferes with operation of the vehicle, it may cause an accident.

• NEVER USE BOLTS OR NUTS FROM THE VEHICLE'S SAFETY DEVICES FOR INSTALLATION.

If bolts or nuts from the steering wheel, brakes or other safety devices are used for installation of the monitor, it may cause an accident.

• ATTACH THE WIRES CORRECTLY.

If the wiring is not correctly performed, it may cause a fire or an accident. In particular, be sure to run and secure the lead wire so that it does not get tangled with a screw or the moving portion of a seat rail.

• USE WITH DC 12 V NEGATIVE GROUND VEHICLES.

This monitor is only for use in a DC 12 V negative ground vehicle. It cannot be used in large trucks or diesel vehicles which are DC 24 V vehicles.

If it is used in the wrong type of vehicle, it may cause a fire or accident.

• 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.

• Avoid installing the monitor in the following places

- Where it would hinder your safe driving.
- Where it would be exposed to direct sunlight or heat directly from the heater or placed in an extremely hot place.
- Where it would be subject to rain, water splashes or excessive humidity.
- Where it would be subject to dust.
- Where it would be positioned on an unstable place.
- Where it could damage the car's fittings.
- Where proper ventilation would not be maintained.

CAUTION

Since there may be legal regulations defining the permissible installation locations for the monitor which differ by country or by state, be sure to install the color monitor in a location complying with any such laws.

中文

警告

必須要有安裝方面特殊的知識方可進行安裝工作。請勿自行安裝監視器系統。為安全起見和可靠的安裝，請洽詢有專門知識的經銷商。

• 請勿將監視器安裝在妨礙駕駛，影響視線，阻礙空氣袋等保險裝置功能或違反交通法律和規則之處。

若將監視器裝在諸如影響前方視線，影響氣袋和其它安全裝置的操作以及妨礙車輛操縱之處時，可能會導致事故的發生。

• 切勿使用車輛安全裝置上的螺栓和螺母來進行安裝。

若使用輪胎轉向器，制動器或其它安全裝置上的螺栓和螺母來安裝監視器時，可能會導致事故的發生。

• 正確連接導線。

若沒有正確接線，可能會導致火災或意外。特別一定要注意伸展和保護引線，使其與螺絲釘或座位把手的移動部位不發生纏結。

• 請使用帶直流 12 V 負極接地的車輛。

此監視器系統僅限於直流 12 V 負極接地的車輛。

此監視器系統不能用直流 24 V 的負極接地的的大型卡車或柴油機。

若將其用錯車型，可能導致火災或事故的發生。

• 為了防止短路，建議您拔掉電池的負極端子並在安裝本機之前做好所有電線的連接。若您不能確保正確安裝本機，請求助合格的技術人員進行連接。

• 請勿在下列地點安裝監視器。

- 妨礙安全駕駛之處。
- 暴露於陽光直射或散熱源直接散熱處以及高溫處。
- 易受雨淋，濺水或過度潮濕之處。
- 易落塵埃之處。
- 不牢固之處。
- 損傷車輛零件之處。
- 通風不良之處請務進行安裝。

小心

各個國家或洲有其法律規定允許安裝監視器的地點，因此務必安裝彩色監視器於符合法律規定的地點。

ไทย

คำเตือน

ผู้ทำการติดตั้งจำเป็นต้องมีความรู้ความชำนาญ อย่าติดตั้งจอภาพด้วยตัวท่านเอง โปรดปรึกษากับตัวแทนจำหน่ายที่มีความรู้ในล้านนี้ ทั้งนี้เพื่อการติดตั้งที่ปลอดภัยและเชื่อถือได้

• อย่าติดตั้งจอมอนิเตอร์ ในตำแหน่งที่อาจกีดขวางการขับขี่ทัศนวิสัยการทำงานของอุปกรณ์นิรภัย เช่น แอร์เบค หรือตำแหน่งที่ห้ามมิให้ติดตั้งตามกฎหมาย หรือระเบียบที่บังคับ

ยื่นการมองเห็นภาพข้างหน้า หรือขัดขวางการทำงานของถุงลมนิรภัย หรืออุปกรณ์นิรภัยอื่น ๆ หรือที่ขัดขวางการทำงานของรถยนต์ อาจก่อให้เกิดอุบัติเหตุได้

• ห้ามนำสลักเกลียวหรือตัวน็อตจากอุปกรณ์นิรภัยของรถยนต์มาใช้ในการติดตั้ง หากมีการนำสลักเกลียวหรือตัวน็อตจากพวงมาลัย เบรกหรืออุปกรณ์นิรภัยอื่น ๆ มาใช้ในการติดตั้งจอภาพ อาจก่อให้เกิดอุบัติเหตุได้

• ต่อสายไฟให้ถูกต้อง

หากสายไฟทำงานไม่ถูกต้อง อาจทำให้เกิดไฟไหม้หรืออุบัติเหตุได้ ควรตรวจสอบให้แน่ใจว่าได้เดินและต่อสายไฟอย่างแน่นหนา เพื่อที่สายไฟจะไม่พันกันหรือหลุด หรือรางที่นิ่งที่เลื่อนไปมาได้

• ใช้กับรถที่ต่อสายดินขั้วลบกระแสตรงขนาด 12 V

ชุดจอภาพนี้ใช้ได้กับรถที่ต่อสายดินขั้วลบกระแสตรงขนาด 12 V เท่านั้น ไม่สามารถใช้ได้กับรถบรรทุกขนาดใหญ่หรือรถยนต์เซลล์ที่ใช้ไฟฟ้กระแสตรงขนาด 24 V หากนำไปใช้กับรถผิดประเภท อาจก่อให้เกิดไฟไหม้หรืออุบัติเหตุได้

• เพื่อป้องกันไฟฟ้าลัดวงจร ขอแนะนำให้ถอดขั้วสายไฟลบของแบตเตอรี่ออกก่อน และทำการเชื่อมต่อไฟฟ้าทั้งหมดก่อนติดตั้งชุดจอภาพ หากไม่แน่ใจวิธีการติดตั้งที่ถูกต้อง โปรดให้ช่างผู้ชำนาญติดตั้งให้

• หลีกเลี่ยงการติดตั้งจอภาพในจุดต่อไปนี้

- ตำแหน่งที่อาจเป็นอุปสรรคต่อการขับขี่ที่ปลอดภัย
- ตำแหน่งที่รับแสงอาทิตย์โดยตรงหรือได้รับ ความร้อนจากเครื่องทำความร้อน หรือในตำแหน่งที่ร้อนจัด
- ตำแหน่งที่อาจถูกฝน น้ำสาดหรือมีความชื้นสูง
- ตำแหน่งที่อาจสัมผัสฝุ่นละออง
- ตำแหน่งที่ตั้งอยู่ในจุดที่ไม่มั่นคง
- ตำแหน่งที่อาจสร้างความเสียหายให้กับอุปกรณ์รถยนต์
- ในพื้นที่ที่มีอากาศถ่ายเทไม่สะดวก

ข้อควรระวัง

เนื่องจากอาจมีกฎระเบียบทางกฎหมาย กำหนดตำแหน่งที่เหมาะสมในการติดตั้งจอภาพ ซึ่งแตกต่างกันในแต่ละประเทศ หรือแต่ละรัฐ ดูให้แน่ใจว่าได้ติดตั้งจอภาพส ไว้ในตำแหน่งตามที่กฎหมายดังกล่าวกำหนด

INSTALLATION

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.

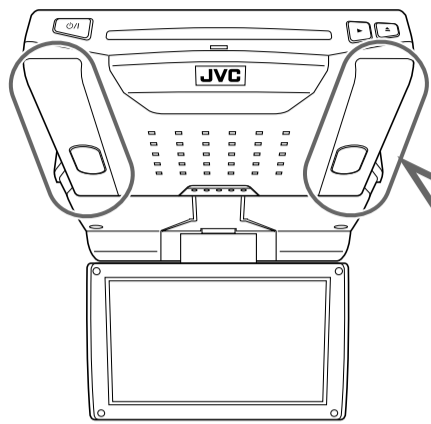
安裝

下面的圖解表示了典型的安裝程式。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。

การติดตั้ง

ภาพประกอบต่อไปนี้แสดงการติดตั้งตามปกติ อย่างไรก็ตาม ท่านควรทำการปรับตำแหน่งให้เหมาะสมกับรถของท่าน หากมีคำถามหรือต้องการข้อมูลเกี่ยวกับชุดการติดตั้ง โปรดปรึกษาตัวแทนจำหน่ายเครื่องเสียงรถยนต์หรือ JVC หรืออ่านจากคู่มือที่ให้มาพร้อมกัน

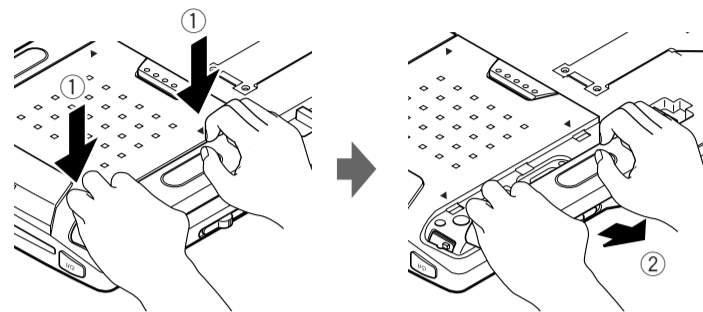
Detaching the dome light cover / 拆開頂燈蓋子 / การถอดฝาครอบไฟรูโคม



To mount the widescreen monitor, detach the dome light covers. As illustrated, depress the two portions on the cover indicated by the marks ▲ (1), then pull off the cover (2).

裝上寬螢幕監視器前先拆開頂燈蓋子。如插圖所示，按下蓋子上標有 ▲ 的兩處 (圖 1)，然後拉出蓋子，如 (2) 所示。

ในการติดตั้งมอนิเตอร์จอภาพ ให้ถอดฝาครอบไฟรูโคมออก กดเดือยสองตัวตามเครื่องหมาย ▲ (1) แล้วดึงฝาครอบออก (2) ตามรูป



Mounting the widescreen monitor

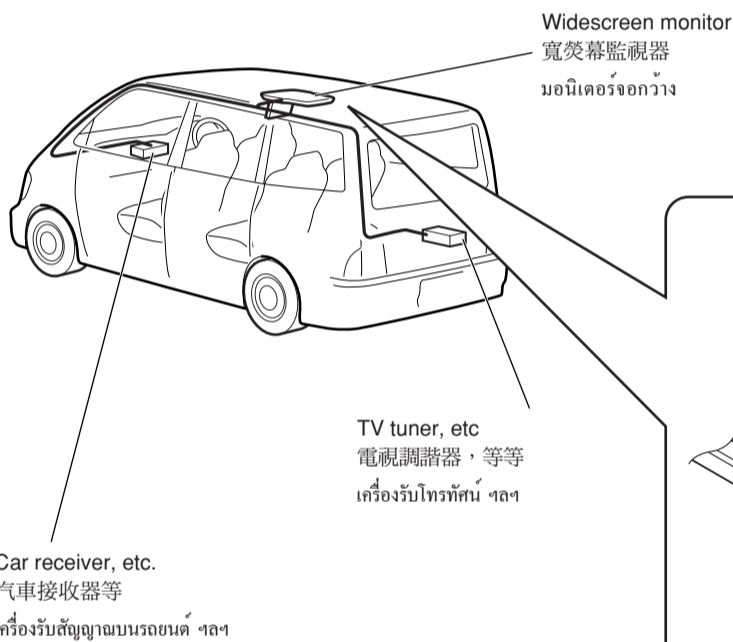
Installation procedure varies among cars. The following is an example. For detailed procedure, see the right page. It is recommended to have the monitor system installed by a qualified technician.

裝上寬螢幕監視器

每種汽車的安裝程序各異。下列為其中一例子。詳細安裝程序請參閱右頁描述。我們建議您由合格技工安裝監視器系統。安裝監視器於車頂之前。

การติดตั้งมอนิเตอร์จอภาพ

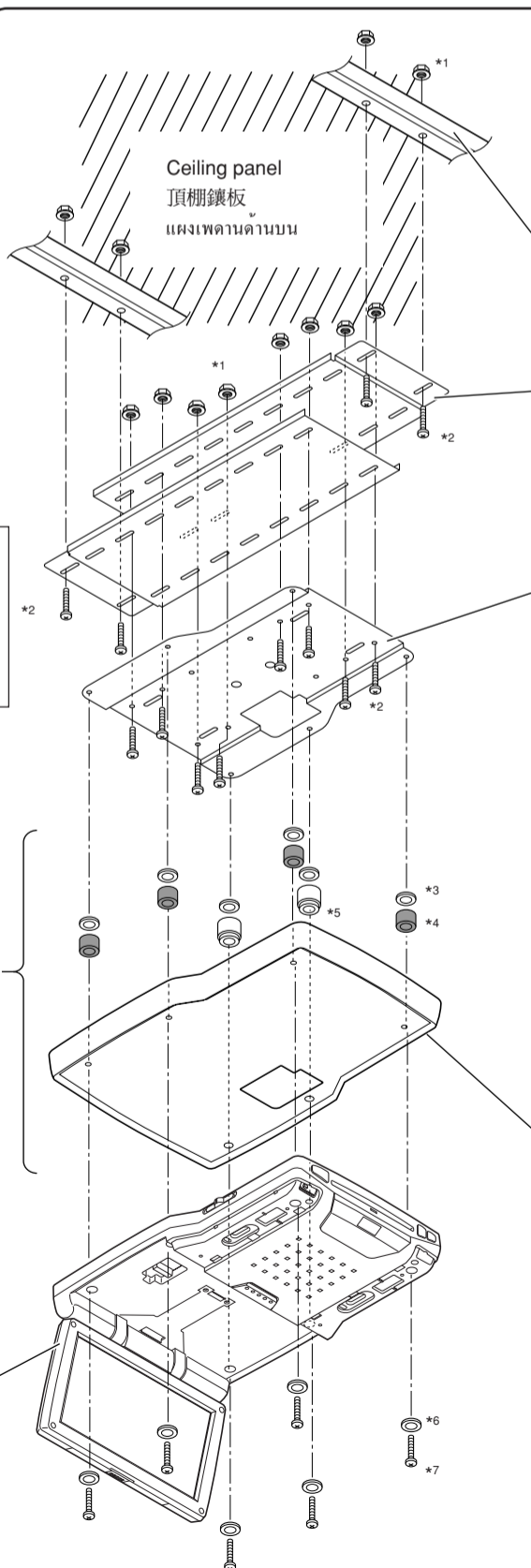
รถแต่ละคันมีขั้นตอนในการติดตั้งแตกต่างกัน ดูหน้าทางขวาสำหรับขั้นตอนรายละเอียดต่อไปนี้จะเป็นตัวอย่างหนึ่งของรูปแบบการติดตั้ง การติดตั้งชุดจอภาพควรกระทำโดยช่างผู้ชำนาญเท่านั้น



Widescreen monitor
寬螢幕監視器
มอนิเตอร์จอภาพ

TV tuner, etc
電視調諧器，等等
เครื่องรับโทรทัศน์ ฯลฯ

Car receiver, etc.
汽車接收器等
เครื่องรับสัญญาณบนรถยนต์ ฯลฯ



*1 Nuts (M5): x 12
螺母 (M5): x 12
แหวนเกลียว (M5): x 12

Ceiling reinforcement crosspieces
頂棚加固橫杆
แผงเหล็กเสริมเพดาน

Slide plates
滑板
แผ่นเลื่อน

*2 Screws M5 x 10 mm: x 12
螺絲釘 M5 x 10 毫米: x 12
น็อต M5 x 10 มม: x 12

Base plate
底板
แผ่นรองรับ

When NOT using the shroud/不使用遮蓋時/เมื่อไม่ใช้แผ่นรองจอภาพ

*3 Flat washers-ø 5 mm: x 6
平墊圈-ø 5 毫米: x 6
แหวนเกลียวทรงแบน-ø 5 มม: x 6

When using the shroud/使用遮蓋時/เมื่อใช้แผ่นรอง

*4 Spacers: black-7 mm: x 4
間隔墊圈: 黑色-7 毫米: x 4
แหวนรอง: ดำ-7 มม: x 4
*5 Spacers: silver-9 mm: x 2
間隔墊圈: 銀色-9 毫米: x 2
แหวนรอง: เงิน-9 มม: x 2

Shroud
遮蓋
ที่ครอบ

*6 Flat washer-ø 5 mm: x 6
平墊圈-ø 5 毫米: x 6
แหวนเกลียวทรงแบน-ø 5 มม: x 6

*7 Screws-M5 x 14 mm x 6
or M5 x 23 mm x 6-when using the shroud
螺絲釘-M5 x 14 毫米 x 6
或 M5 x 23 毫米 x 6-若使用罩蓋
น็อต-M5 x 14 มม x 6
หรือ M5 x 23 มม x 6-เมื่อใช้เหล็กประกบ

Widescreen monitor
寬螢幕監視器
มอนิเตอร์จอภาพ

Before mounting the monitor, make sure that the screws do not reach the ceiling panel.

在安裝屏幕之前，先確定螺絲不會觸到頂棚鑲板。

ก่อนติดตั้งจอภาพ ดูให้แน่ใจว่าไม่ได้ขันสกรูแน่นจนถึงแผงเพดานด้านบน

These should not be used if the monitor position after installed seems so low that it may interfere with visibility through the rearview mirror.

如果安裝好監視器後發現它的位置太低，則不要使用這些，否則會影響後視鏡的能見度。

ไม่ควรใช้ หากตำแหน่งของจอภาพหลังติดตั้งแล้ว อยู่ต่ำเกินไปจนอาจรบกวนทัศนวิสัยในการมองกระจกหลัง

Before mounting the monitor to the ceiling:

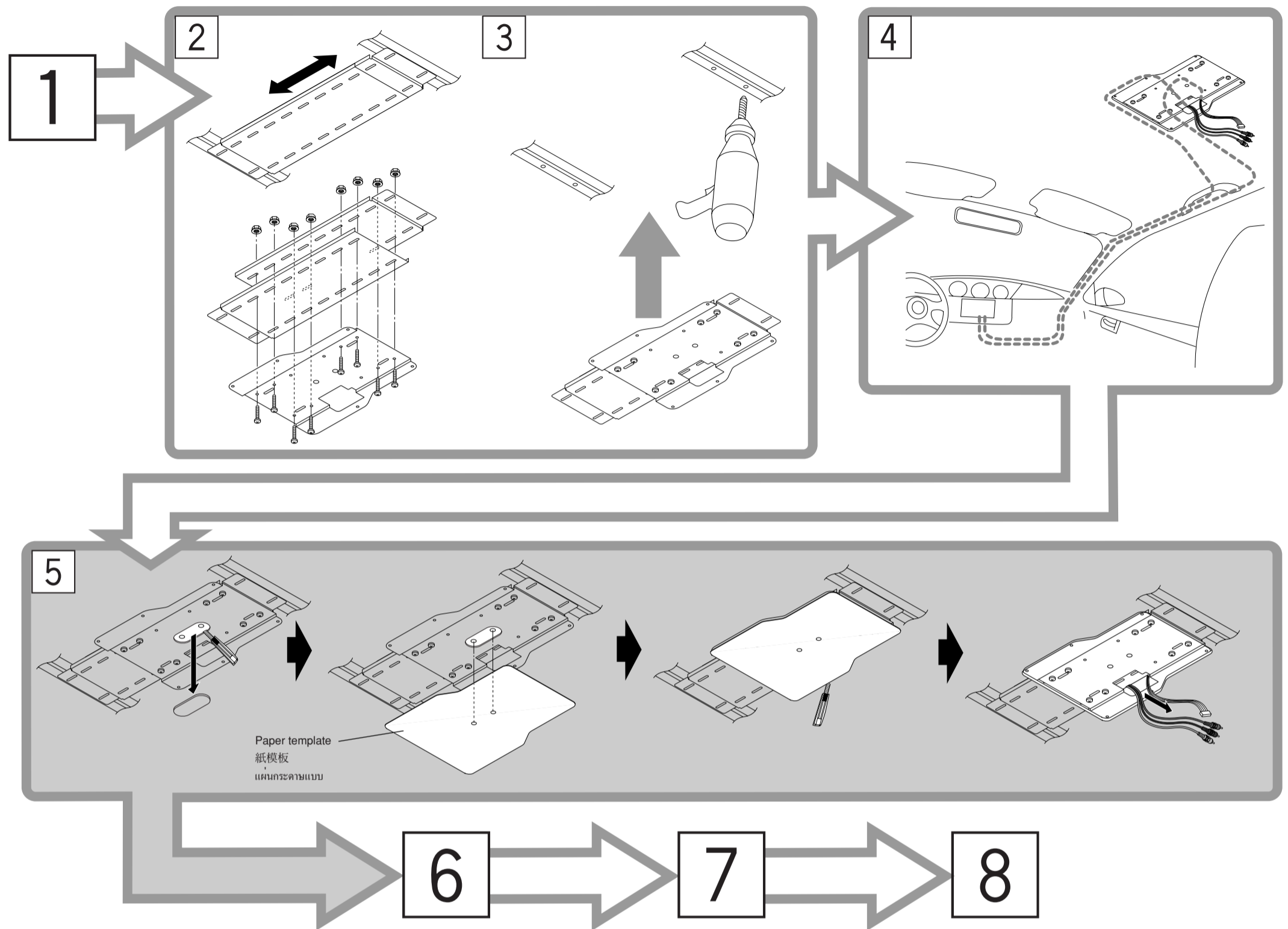
- Perform the required external connections first (see reverse page).
- Wear goggles or protective eyewear to protect your eyes especially while drilling the holes.
- Pay attention not to damage the car interior and its fittings and the ceiling of your car.

首先執行必要的外部連接：

- 首先執行必要的外部連接（請參閱背頁）。
- 戴護目鏡或者保護眼罩可保護您的眼睛，尤其是在鑽孔時。
- 注意不要損壞汽車內部零件，裝置及車頂。

ก่อนติดตั้งจอภาพเข้ากับเพดานรถ:

- ให้ทำการเชื่อมต่อภายนอกที่จำเป็นก่อน (พลิกหน้าหลัง)
- สวมแว่นตา หรือเครื่องป้องกันตา เพื่อปกป้องดวงตาของคุณ โดยเฉพาะขณะเจาะรู
- ระมัดระวังวัสดุ รวมถึงอุปกรณ์ที่ติดตั้งภายใน และหลังการติดตั้ง



- 1 Remove the dome light and interior headliner from the ceiling.**
- 2 Assemble the slide plates and the base plate.**
 - Determine the monitor installation position and length of combined slide panels first.
- 3 Attach the assembled plates to the ceiling reinforcement crosspieces.**
 - Drill the four holes in the ceiling reinforcement crosspieces to meet the mounting holes of the assembled plates.
- 4 Finish wiring then attach the interior headliner.**
- 5 Cut off the headliner using the supplied paper template.**
- 6 Connect the harness and plugs from the ceiling to the monitor.**
 - For wiring and connections, see the reverse side.
- 7 Attach the shroud and the monitor to the base plate.**
 - When using the shroud, the supplied spacers should be inserted to be kept the appropriate distance between the base plate and the shroud. If the supplied spacers and screws cannot keep the appropriate distance between the headliner and the monitor, modify the spacers and screws (or obtain those of the appropriate length).
- 8 After mounting the monitor, attach the dome light covers.**

- 1 摘除頂燈及車頂內飾板。**
- 2 安裝滑板及底板。**
 - 首先應確定監視器的安裝位置及組合滑板的長度。
- 3 將安裝板附在頂棚加固橫杆上。**
 - 在頂棚加固橫杆上鑽四個孔，孔的大小應與安裝板的安裝孔大小一致。
- 4 完成連線後將車頂內飾板裝上。**
- 5 用提供的紙模板切內飾板連線。**
- 6 將導線及插座穿過車頂棚連接到監視器。**
 - 連線及連接詳情請參閱反面。
- 7 將遮蓋和監視器附在底板上。**
 - 當使用遮蓋時，為保持底板與遮蓋之間的最佳距離請插入附送の間隔墊圈。如果附送の間隔墊圈和螺絲不能在紙模板和監視器之間保持最佳距離，請更換間隔墊圈和螺絲（或找到合適長度的墊圈和螺絲）。
- 8 固定好監視器後，將頂燈罩裝上。**

- 1 ถอดฝาครอบไฟรูปลูกอม และวัสดุบุค้ำในออกจากเพดานรถ**
- 2 ประกอบชิ้นส่วนของแผ่นเลื่อน และแผ่นรองฐาน**
 - ก่อนอื่นจะต้องกำหนดตำแหน่ง ในการติดตั้งจอภาพ และความยาวของแผงเลื่อน
- 3 ติดแผ่นที่ใช้ในการประกอบจอภาพ กับแกนเสริมที่เพดานรถ**
 - เจาะรูสี่รูที่แกนเสริมเพดาน ให้พอดีกับรูที่จะใช้ในการติดตั้งแผ่นประกอบจอภาพ
- 4 หลังจากเดินสายไฟแล้ว จึงติดตั้งวัสดุบุค้ำในกลับเข้าที่**
- 5 ตัดวัสดุบุค้ำใน โดยใช้แผ่นกระดาษแบบที่ให้มาพร้อมเครื่อง**
- 6 ต่อสายรัด และปลั๊ก จากเพดานรถ มายังจอภาพ**
 - ในการเดินสายไฟ และการเชื่อมต่อสายต่างๆ ให้ดูหน้าหลัง
- 7 ติดแผ่นรองจอภาพ และจอภาพ กับแผ่นรองฐาน**
 - เมื่อใช้แผ่นรอง ควรใส่แหวนรองที่โหม้าพร้อมเครื่องด้วย เพื่อให้ได้ระยะที่เหมาะสม ระหว่างแผ่นรองฐานกับแผ่นรองจอภาพ หากแหวนรองและสกรูที่โหม้าพร้อมเครื่องไม่สามารถรักษาระยะที่เหมาะสมไว้ สดุดได้หลังคา กับจอภาพได้ ขอให้ตัดแปลงแหวนรองและสกรู (หรือหาแหวนรองและสกรูที่มีขนาดเหมาะสมมาใช้)
- 8 หลังจากติดตั้งจอภาพแล้ว ให้ติดตั้งฝาครอบไฟรูปลูกอมกลับเข้าที่**

ELECTRICAL CONNECTIONS

電路連接

การเชื่อมต่อไฟฟ้า

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.

為防止短路，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。

เพื่อป้องกันไฟฟ้าลัดวงจรขอแนะนำให้ท่านถอดขั้วสายไฟลบของแบตเตอรี่ออกก่อนและทำการเชื่อมต่อไฟฟ้าทั้งหมดก่อนติดตั้งชุดจอกภาพ หากไม่แน่ใจวิธีการติดตั้งที่ถูกต้องโปรดให้ช่างผู้ชำนาญติดตั้งให้

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.

注意：
本機僅可使用直流 **12 V**、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。

หมายเหตุ:
ชุดจอกภาพนี้ถูกออกแบบมาให้ทำงานกับระบบไฟฟ้าขั้วลบที่ต่อสายลงดินกระแสตรงขนาด **12 V** หากรถของท่านไม่ได้ใช้ระบบนี้ จำเป็นต้องใช้อินเวอร์เตอร์ซึ่งสามารถหาซื้อได้ที่ตัวแทนจำหน่ายเครื่องเสียงรถยนต์ยี่ห้อ JVC

- Replace the fuse with one of the specified ratings. If the fuse blows frequently, consult your JVC car audio dealer.

- 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。

- เปลี่ยนฟิวส์โดยใช้ค่าใดค่าหนึ่งเฉพาะต่อไปนี้ หากฟิวส์ขาดบ่อย โปรดปรึกษาตัวแทนจำหน่ายเครื่องเสียงรถยนต์ยี่ห้อ JVC

Typical Connections / 典型連接 / การเชื่อมต่อแบบทั่วไป

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit. The leads of the power cord and those of the connector from the car body may be different in color.

連接之前：請仔細檢查汽車內的接線。錯誤的接線可能導致本機嚴重損傷。電源線的導線和那些連接汽車身體的導線的顏色可能不同。

ก่อนการเชื่อมต่อ: โปรดตรวจสอบการเดินสายไฟในรถอย่างรอบคอบ การต่อสายไฟที่ไม่ถูกต้องอาจสร้างความเสียหายขั้นรุนแรงให้กับชุดจอกภาพนี้ได้ สายไฟ และสายต่อจากขั้วที่ตัวรถ อาจมีสีแตกต่างกัน

1 Connect the colored leads of the power cord to the car battery, the car light control switch, and the door sensor in the following sequence.

1 根據以下次序將電源線的顏色導線連接至汽車電池、汽車燈控制開關和門傳感器。

1 ต่อสายไฟที่เป็นสี กับแบตเตอรี่รถยนต์ สวิตช์ควบคุมไฟรถยนต์ และเซ็นเซอร์ที่ประตู ตามลำดับดังนี้

- ① Black: ground
- ② Yellow: to car battery (constant 12 V)
- ③ Red: to an accessory terminal
- ④ Orange: to car light control switch

- ① 黑色：接地
- ② 黃色：接至汽車電池（恆定 12 V）
- ③ 紅色：接至附屬的端子
- ④ 橙色：接至汽車燈控制開關

- ① สีดำ: ต่อกับสายดิน
- ② สีเหลือง: ต่อกับแบตเตอรี่รถ (แบบคงที่ ขนาด 12 V)
- ③ สีแดง: ต่อกับอุปกรณ์
- ④ สีส้ม: วิตช์ควบคุมไฟของรถ

DOMELIGHT

- ⑤ Gray with red stripe: to the door sensor (DOOR SW)
- ⑥ Black with red stripe: ground (DOMELIGHT)
- ⑦ Yellow with red stripe: to car battery (constant 12 V)

- DOMELIGHT
- ⑤ 灰色帶有紅色條紋：接至門傳感器（DOOR SW）
- ⑥ 黑色帶有紅色條紋：接地（DOMELIGHT）
- ⑦ 黃色帶有紅色條紋：接至汽車電池（恆定 12 V）

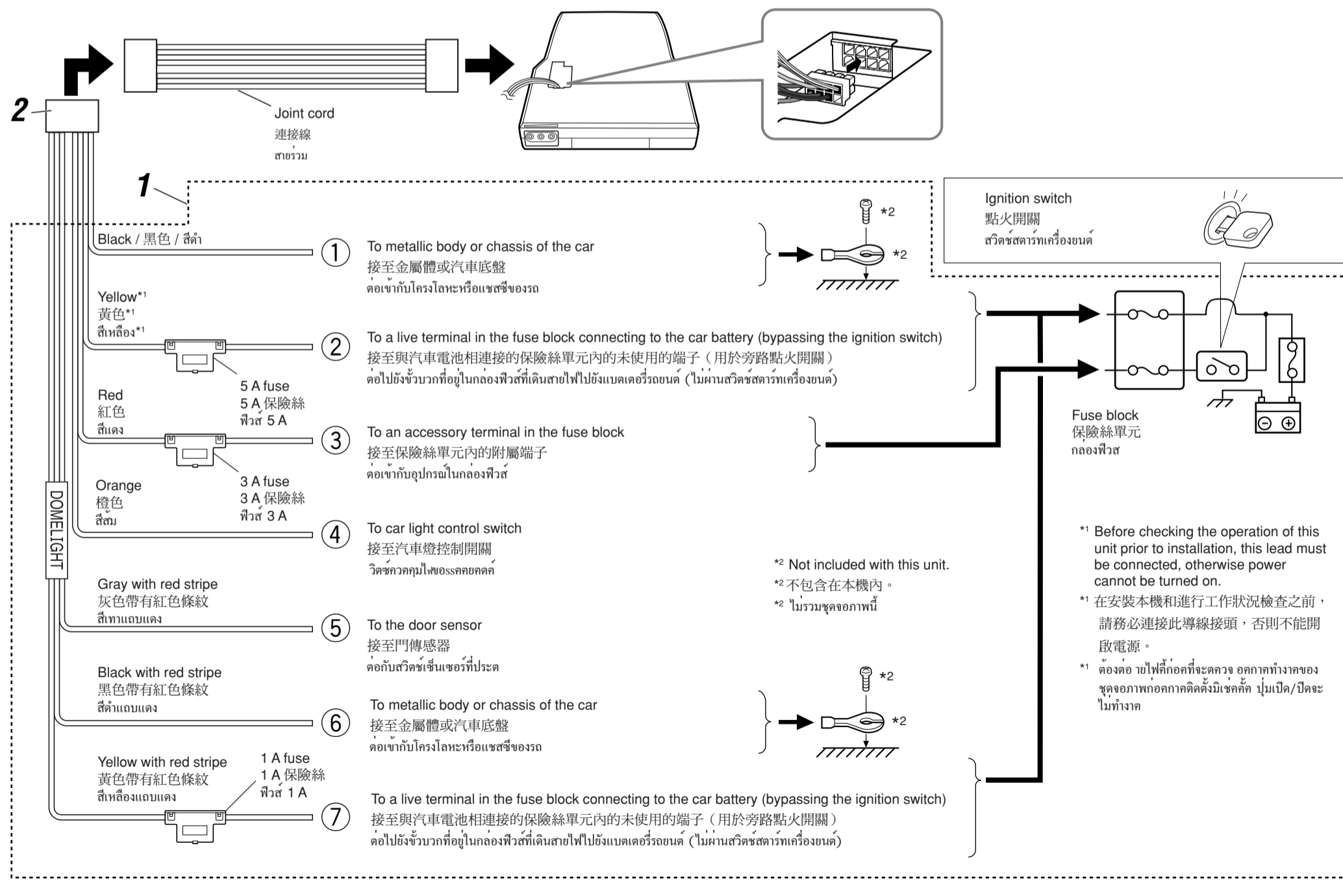
DOMELIGHT

- ⑤ สีเทาแถบแดง: ต่อกับเซ็นเซอร์ที่ประตู (DOOR SW)
- ⑥ สีดำแถบแดง: ต่อสายดิน (DOMELIGHT)
- ⑦ สีเหลืองแถบแดง: ต่อแบตเตอรี่รถยนต์ (แบบคงที่ ขนาด 12 V)

2 Finally connect the wiring harness to the unit.
• Using the joint cord makes the connection/disconnection easier.

2 最後將導線連接到本機。
• 使用連接線使連接與拆卸變的更加簡單。

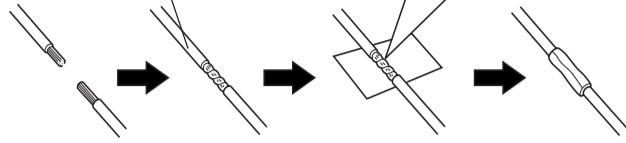
2 ขั้นสุดท้ายให้ต่อมัดสายไฟเข้ากับชุดจอกภาพ
• การใช้สายรวมเพื่อเชื่อมต่อ/ยกเลิกการเชื่อมต่อได้ง่ายขึ้น



Connecting the leads / 連接電線 / การเชื่อมต่อสายไฟ

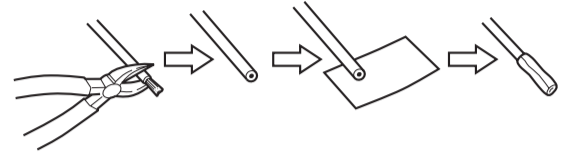
Twist the core wires when connecting.
 連接時彎曲電線芯心。
 มวนสายไฟหลักขณะเชื่อมต่อ

Solder the core wires to connect them securely.
 銜接電線芯心以將它們穩固連接。
 บัดกรีสายไฟหลักเข้าด้วยกันอย่างแน่นหนา



CAUTION / 注意 / ข้อควรระวัง:

- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- 為免電源短路，用絕緣帶包裹 電線的終端。
- ควรใช้เทปพันรอบปลายสายไฟที่ไม่ได้ใช้ เพื่อป้องกันไฟฟ้าลัดวงจร



CONNECTING TO THE RECEIVER AND EXTERNAL COMPONENTS

連接到接收器和外部設備

ต่อกับเครื่องรับ และอุปกรณ์ภายนอก

DO NOT connect the AV1-IN and AV2-INPUT plugs on the monitor to the LINE OUT or SUBWOOFER plugs of the car receiver.

不要將監視器上的 AV1-IN 和 AV2-INPUT 插頭連接到汽車接收器的低音揚聲器的 LINE OUT 接口。

อย่าต่อปลั๊ก AV1-IN และ AV2-INPUT บนจอภาพ กับขั้ว LINE OUT ของปลั๊ก SUBWOOFER บนเครื่องรับที่ติดตั้งในรถยนต์

See also "About sounds reproduced through the terminals" on page 36 of the INSTRUCTIONS.

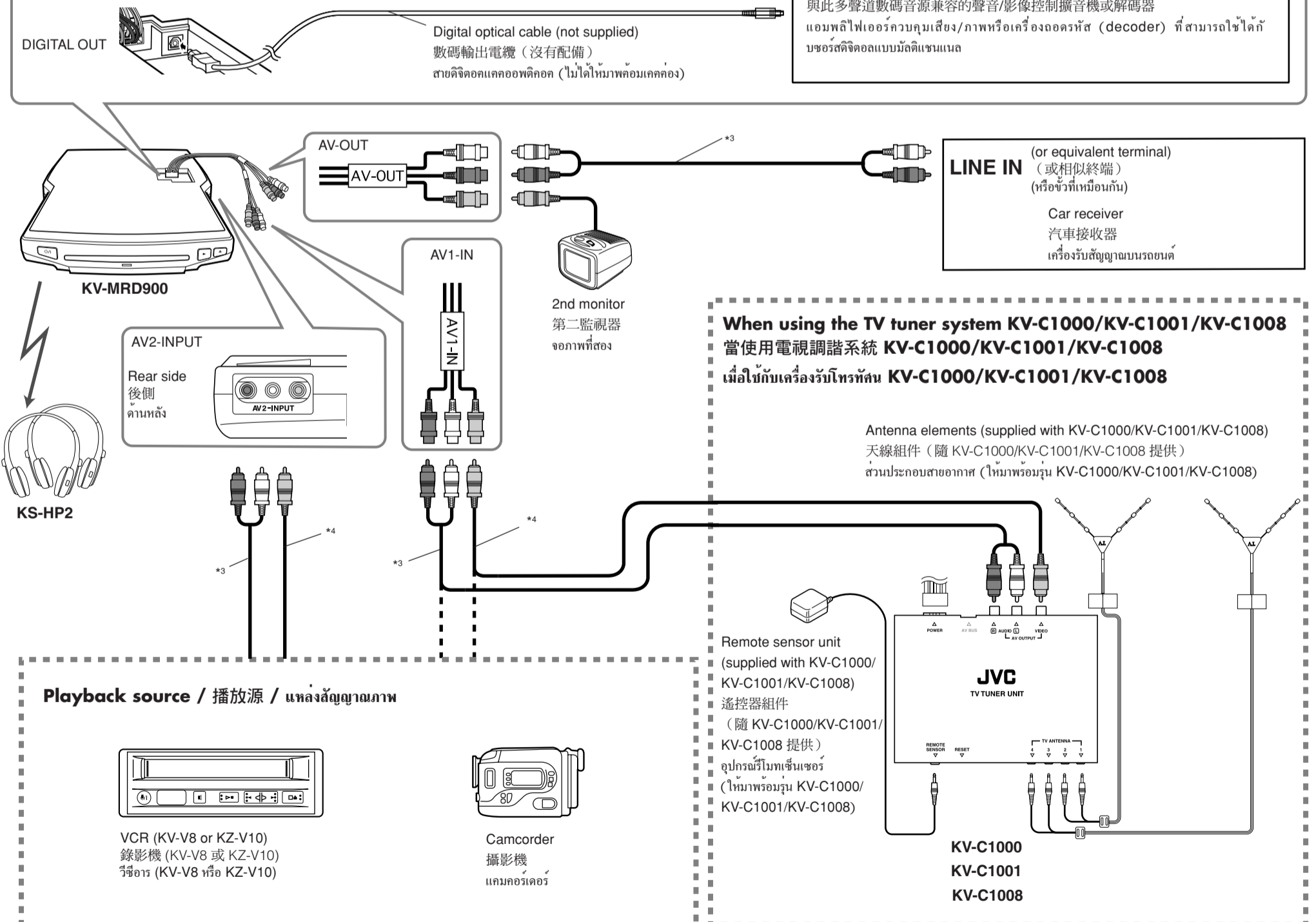
請參閱說明書 36 頁的“有關自端子輸出的聲音”。

ดูเพิ่มเติมในเรื่อง "เกี่ยวกับเสียงที่สร้างผ่านขั้วออกด้านหลัง" ในหน้า 36 ของคู่มือการใช้งาน

Audio/video control amplifier or the decoder compatible with the multichannel digital sources

與此多聲道數碼音源兼容的聲音/影像控制擴音機或解碼器

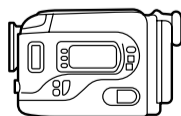
แอมพลิไฟเออร์ควบคุมเสียง/ภาพหรือเครื่องถอดรหัส (decoder) ที่สามารถใช้ได้กับบอร์สดิจิตอลแบบมัลติแชนแนล



Playback source / 播放源 / แหล่งสัญญาณภาพ



VCR (KV-V8 or KZ-V10)
 錄影機 (KV-V8 或 KZ-V10)
 วีซีอาร์ (KV-V8 หรือ KZ-V10)



Camcorder
 攝影機
 แคมคอร์ดอร์

*3 RCA pin plug cord (not supplied)

*4 Video cord (not supplied)

*3 RCA 針式插塞導線 (沒有配備)

*4 影像電線 (沒有配備)

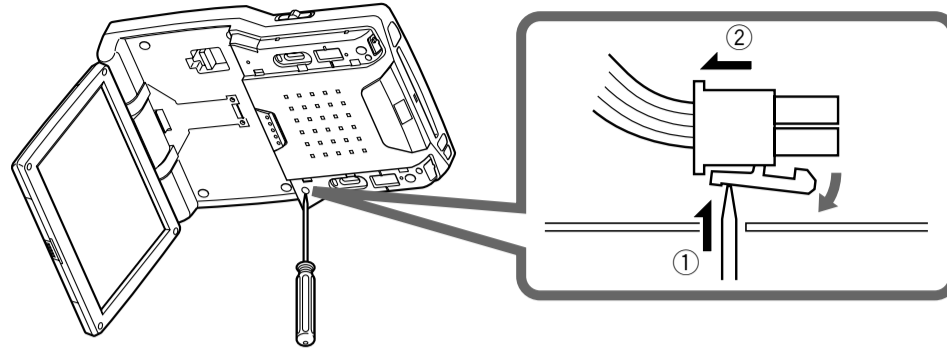
*3 สายต่อปลั๊กที่มีขาแบบ RCA (ไม่ได้ให้มาพร้อมเครื่อง)

*4 สายวิดีโอ (ไม่ได้ให้มาพร้อมเครื่อง)

To disconnect the harness, unlock the harness using the screw driver or a similar tool, then pull out the harness. (Detach the dome light cover prior to this.)

若要拆開導線，用螺絲起子解開導線，然後將導線拉出。(在這之前先拆掉座艙頂燈燈蓋。)

การปลดสายล๊อคออก ให้ปลดสายล๊อคโดยไขไขควง หรือเครื่องมือที่มีลักษณะคล้ายกัน ดึงสายล๊อคออก (ถอดฝาครอบโคมไฟก่อน)



Parts list for installation and connection

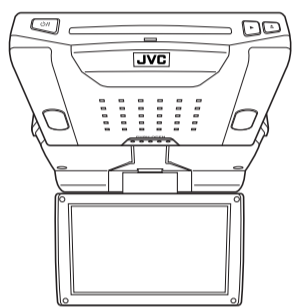
The following parts are provided with this unit. After checking them, please set them correctly.

安裝和連接用零件表

本機備有下列零件，在檢查這些零件之後，請正確組裝。

รายการชิ้นส่วนสำหรับการติดตั้งและการเชื่อมต่อ

ชิ้นส่วนต่อไปนี้ได้จัดเตรียมไว้ให้พร้อมกับชุดจอภาพ หลังจากตรวจสอบแล้ว โปรดติดตั้งในตำแหน่งที่ถูกต้อง



Widescreen monitor
寬螢幕監視器
มอนิเตอร์จอกว้าง

Cordless headphones
無線耳機
หูฟังไร้สาย

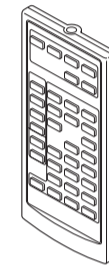


KS-HP2

Battery
乾電池
แบตเตอรี่



R03/AAA



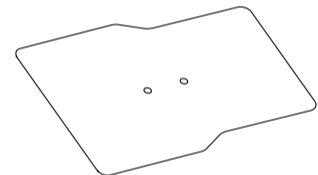
Remote controller
遙控器
รีโมทคอนโทรล

RM-RK230

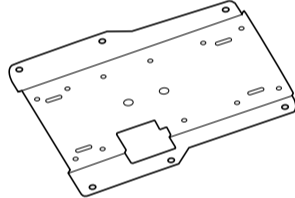
Battery
乾電池
แบตเตอรี่



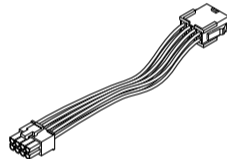
CR2025



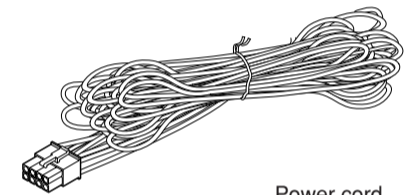
Paper template
紙模板
แผ่นกระดาษแบบ



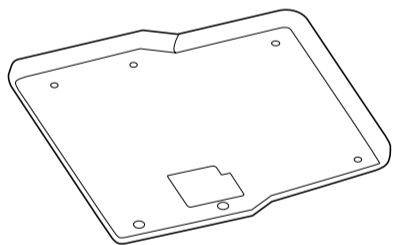
Base plate
底板
แผ่นรองรับ



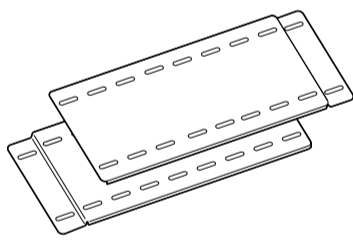
Joint cord
連接線
สายรวม



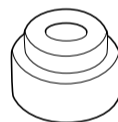
Power cord
電源線
สายไฟ



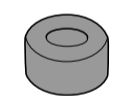
Shroud
遮蓋
ที่ครอบ



Slide plates
滑板
แผ่นเลื่อน



Spacers: silver-9 mm: x 2
間隔墊圈: 銀色-9 毫米: x 2
แหวนรอง: เงิน-9 มม: x 2



Spacers: black-7 mm: x 4
間隔墊圈: 黑色-7 毫米: x 4
แหวนรอง: ดำ-7 มม: x 4



Flat washers-ø 5 mm : x 12
平墊圈-ø 5 毫米: x 12
แหวนเกลียวทรงแบน-ø 5 มม: x 12



Nuts M5: x 12
螺母 M5: x 12
แหวนเกลียว M5: x 12



Screws-M5 x 10 mm: x 12
螺絲釘-M5 x 10 毫米: x 12
น็อต-M5 x 10 มม: x 12



Screws-M5 x 14 mm: x 6
螺絲釘-M5 x 14 毫米: x 6
น็อต-M5 x 14 มม : x 6



Screws-M5 x 23 mm: x 6
螺絲釘-M5 x 23 毫米: x 6
น็อต-M5 x 23 มม: x 6

TROUBLESHOOTING

- **The fuse blows.**
* Are the red and black leads connected correctly?
- **Power cannot be turned on.**
* Is the yellow lead connected?
- **Picture does not come on screen.**
* Is the correct input selected?
- **Dome lights cannot be turned on.**
* Is the yellow and red stripe lead connected?
- **This unit does not work at all.**
* Have you reset your unit?

故障排除

- 保險絲燒斷。
* 紅色和黑色導線接頭是否正確連接?
- 電源不能接通。
* 黃色導線接頭是否接上?
- 螢幕不出畫面。
* 檢查是否選擇正確輸入?
- 無法打開頂燈。
* 黃色和紅色條紋導線是否已經連接了?
- 本機完全不能操作。
* 您是否已經重置您的機組?

การแก้ไขปัญหาเบื้องต้น

- ฟิวส์ขาด
* ต่อสายไฟสีแดงและดำอย่างถูกต้องหรือไม่
- ไม่สามารถเปิดปุ่มเปิด/ปิดได้
* ต่อสายไฟสีเหลืองแล้วใช่หรือไม่
- ภาพไม่ปรากฏบนจอ
* เลือกอินพุตถูกต้องหรือไม่
- โคมไฟโคมไม่สามารถเปิดได้
* ต่อสายไฟแถบเหลือง และแถบแดงหรือไม่
- เครื่องไม่ทำงาน
* ท่านได้ตั้งเครื่องใหม่หรือไม่