JVC

DVD/CD RECEIVER   KD-DV5000
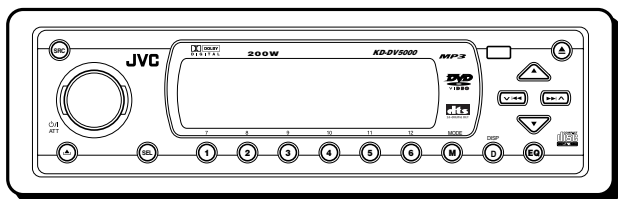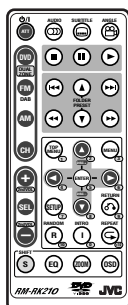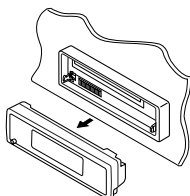
RECEPTOR CON DVD/CD   KD-DV5000

RECEPTEUR DVD/CD   KD-DV5000

Detachable

DVD VIDEO™   **COMPACT** disc DIGITAL VIDEO   **DOLBY DIGITAL**   **dts** 2.0+DIGITAL OUT   **MP3**

- This unit is equipped with the display demonstration. To cancel it, see page 9.
- Esta unidad está equipada con demostración en la pantalla. Para cancelarla, consulte la página 9.
- Cet appareil est équipé d'une fonction de démonstration des affichages. Pour l'annuler, référez-vous à la page 9.

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

INSTRUCTIONS
MANUAL DE INSTRUCCIONES
MANUEL D'INSTRUCTIONS

For customer Use:

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

Model No.

Serial No.

LVT1053-001A
[J]

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

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

How to reset your unit

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

Note:
If you reset the unit during play, the playback mode selections (e.g. repeat play mode setting), you have selected for the current disc will be reset to the initial settings.
• *During DVD playback, the disc menu selection will also be reset to the initial disc settings.*
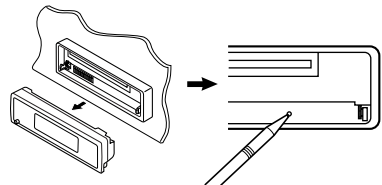
Thank you for purchasing a JVC product. Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

WARNINGS

- **DO NOT install any unit in locations where;**
  - **it may obstruct the steering wheel and gearshift lever operations, as this may result in a traffic accident.**
  - **it may obstruct the operation of safety devices such as air bags, as this may result in a fatal accident.**
  - **it may obstruct visibility.**
- **DO NOT operate any unit while manipulating the steering wheel, as this may result in a traffic accident.**
- **The driver must not watch the monitor while driving.**
  If the driver watches the monitor while driving, it may lead to carelessness and cause an accident.
- **The driver must not put on the headphones while driving. It is dangerous to shut off the outside sounds while driving.**
- **If you need to operate the unit while driving, be sure to look ahead carefully or you may be involved in a traffic accident.**
- **If the parking brake is not engaged, "DRIVER MUST NOT WATCH THE MONITOR WHILE DRIVING." appears on the monitor, and no playback picture will be shown.**
  - **This warning appears only when the parking brake wire is connected to the parking brake system built in the car (refer to the Installation/Connection Manual).**

CAUTION: DO NOT insert a disc while the disc loading lamp is flashing or is not lit. (See page 18.)

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

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

Caution:
If the temperature inside the car is below 0°C (32°F), the movement of animation and text scroll will be halted on the display to prevent the display from being blurred. ▦ *(LOW TEMP.) indicator appears on the display.*
When the temperature increases, and the operating temperature is resumed, these functions will start working again.

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

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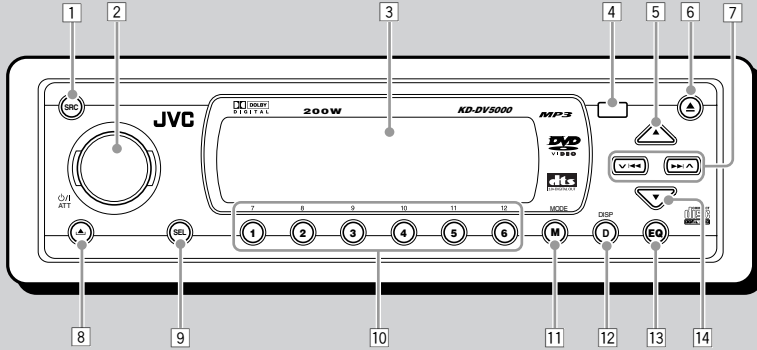
CONTENTS

Control panel

Refer to the pages in parentheses for details.

1 SRC (source) button (8, 57, 59, 65)
2 • ⏻/I ATT (standby/on/attenuator)
  button (8)
  • Control dial
3 Display window
4 Remote sensor
5 ▲ (up) button
  • Functions as the Play button for DVDs and
    VCDs.

6 ⏏ (eject) button (20, 35)
7 ∨ |◄◄/►►| ∧ buttons
8 ◢◣ (control panel release) button (58)
9 SEL (select) button
10 Number buttons
11 MODE (M) button
12 DISP (D) (display) button (10, 15, 41, 60, 65)
13 EQ (equalizer) button (10, 48)
14 ▼ (down) button
  • Functions as the Stop button for DVDs and
    VCDs.

How to use the MODE (M) button

If you press MODE (M), the unit goes into functions mode. While in functions mode, the number
buttons work as different function buttons.
• The ▲/▼ buttons also work as +10/–10 buttons after pressing MODE (M).

Ex.: When the source is the tuner

Time countdown indicator
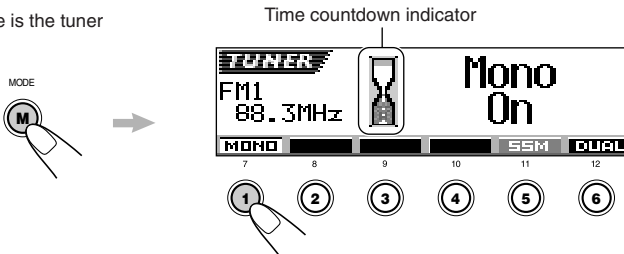
To use these buttons for original functions again after pressing MODE (M), wait for 5 seconds
without pressing any of these buttons until the functions mode is cleared.
• Pressing MODE (M) again also clears the functions mode.

5
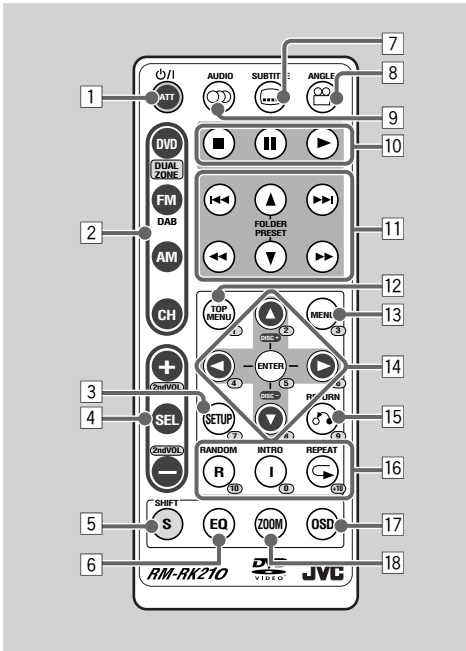
Remote controller

IMPORTANT:

If "Dual Zone" is turned "On" (see page 30), the remote controller only functions for operating the DVD/CD player.

Refer to the pages in parentheses for details.

1 ⏻/I ATT (standby/on/attenuator) button
2 Source selection button
   DVD, FM, AM, and CH
   • DVD button also functions as the DUAL ZONE button while pressed with SHIFT (S) button. (30)
   • FM button also functions to change the FM bands. Each time you press the button, FM band changes to FM1, FM2, and FM3 in sequence.
   • FM button does not function as the DAB button for this model.
   • CH button does not function if no CD changer is connected.

3 *SETUP button (43)
4 Basic sound setting buttons
   SEL, +, and –
   • The +/– buttons normally function as the volume adjustment buttons.
   • The +/– buttons also function as the 2ndVOL +/– buttons when pressed with SHIFT (S) button. (31)
5 SHIFT (S) button
6 EQ (equalizer) button (48)
   • This button does not work for selecting the level meter.
7 SUBTITLE ⃞ button (22)
8 ANGLE ⊡ button (23)
9 AUDIO ⃝⃝ button (23)
10 Disc basic operation buttons (20)
   ■ (stop), II (pause), ► (play)
11 Disc advanced operation buttons
   I◄◄ / ►►I (reverse search/forward search)
   • The I◄◄ / ►►I buttons also work for searching for stations.
   ◄◄ / ►► (reverse/fast forward)
   FOLDER PRESET ▲ / ▼
   • The FOLDER PRESET ▲ / ▼ buttons also work for selecting the preset stations.
12 *TOP MENU button (24)
13 *MENU button (24)
14 *Menu operation buttons
   Cursor (▲ / ▼ / ◄ / ►), and ENTER
15 *RETURN ↫ button (24)
16 *Play mode buttons (28, 29, 63, 64)
   RANDOM (R), INTRO (I), and REPEAT (⟳)
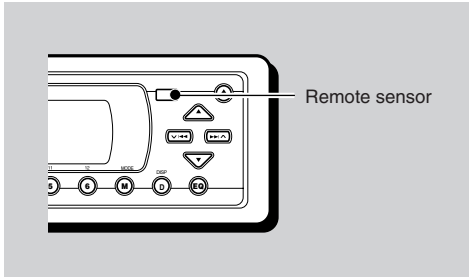17 OSD button (32)
18 ZOOM button (25)

* *These buttons function as the number buttons when pressed with SHIFT (S) button.*

6

Preparing the remote controller

Before using the remote controller:
• Aim the remote controller directly at the remote sensor on the main unit. Make sure there is no obstacle in between.

Remote sensor

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

Installing the battery

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

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

(back side)

1)

2)
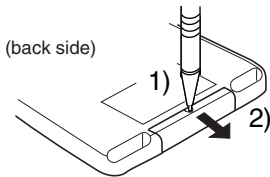
2. Place the battery.
   Slide the battery into the holder with the + side facing upwards so that the battery is fixed in the holder.

Lithium coin battery (product number: CR2025)
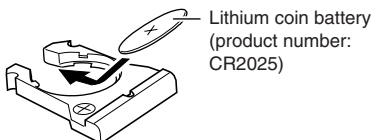
3. Return the battery holder.
   Insert again the battery holder pushing it until you hear a clicking sound.

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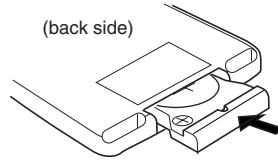
WARNING:
• *Store the battery in a place where children cannot reach.*
  If a child accidentally swallows the battery, consult a doctor immediately.
• *Do not recharge, short, disassemble or heat the battery or dispose of it in a fire.*
  Doing any of these things may cause the battery to give off heat,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

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

7

2   1, 3
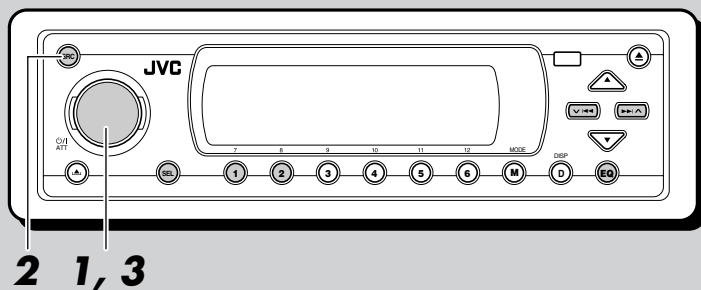
Turning on the power

1 Turn on the power.
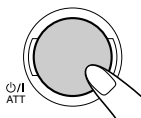
Note on One-Touch Operation:
When you select a source in step 2 below, the power automatically comes on. You do not have to press this button to turn on the power.

2 Select the source.

Each time you press the button, the source changes as follows.

```
           *1          *2           *3
→ TUNER → DISC → CD-CH or LINE IN
                    (CD changer)
```
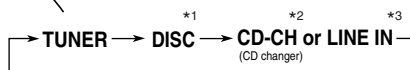
To operate the tuner (FM or AM),
  see pages 11 – 15.
To play a disc,
  see pages 16 – 46.
To operate the CD changer,
  see pages 59 – 64.
To operate the external component
  (LINE IN), see page 65.

*1 *If a disc is not in the loading slot, you cannot select "DISC" as the source to play.*
*2 *Without connecting a CD changer, you cannot select it as the source to play.*
*3 *To select "LINE IN," select "Line In" for the "Ext Input" setting on page 53.*

3 Adjust the volume.
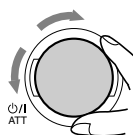
Volume level appears.

Current sound (iEQ) mode (see page 48)

4 Adjust the sound as you want. (See pages 47 – 49.)

Note:
While playing a source, you can also show the level meter on the display. For details, see "Activating the level meter" on page 10.

To drop the volume in a moment

Press ⏻/I ATT briefly while listening to any source. "ATT" starts flashing on the display, and the volume level will drop in a moment.
To resume the previous volume level, press the button briefly again.
• If you turn the control dial, you can also restore the sound.

To turn off the power

Press ⏻/I ATT for more than 1 second.
• **If you turn off the power while listening to a disc,** playback will start from where playback has been stopped previously, next time you turn on the power.

Canceling the display demonstration

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

• It is recommended to cancel the demonstration before you use the unit for the first time.

To cancel the display demonstration, follow the procedure below:

1 **Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see page 51.)**

2 **Press number button 1 to select "MOVIE"—Movie category of the PSM settings.**
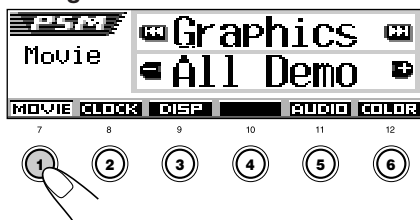
The "Graphics" setting screen appears on the display.

3 **Select "Off."**

4 **Finish the setting.**

To activate the display demonstration, repeat the same procedure and select "All Demo" or "Int Demo" in step *3*.

• For more details, see "To set the movie demonstration—Graphics" on page 52.

Setting the clock

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

1 **Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: see page 51.)**

2 **Press number button 2 to select "CLOCK"—Clock category of the PSM settings.**
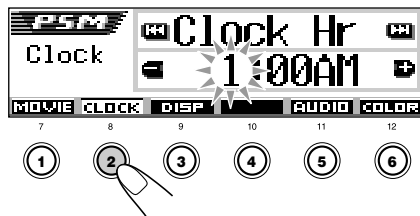
The "Clock Hr" setting screen appears on the display.

3 **Adjust the hour.**

4 **Set the minute.**
    1 Select "Clock Min (minute)."
    2 Adjust the minute.

ENGLISH

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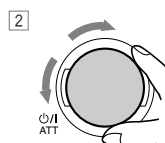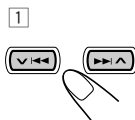
5 Set the clock system.
1 Select "24H/12H."
2 Adjust "24Hours" or "12Hours."

|1| |2|

6 Finish the setting.

To check the current clock time when the unit is turned off, press DISP (D).
The power turns on and the clock time is shown for about 5 seconds, then the power turns off.

Activating the level meter

You can show the level meters on the display while playing any source. This unit is equipped with three level meter patterns.
• There is a time limit in doing the following procedure. If the setting is canceled before you finish, start from step **1** again.

1 Press EQ (equalizer) twice.
Last selected level meter appears on the display.

• If you press the button only once, the sound selection screen appears (see page 48).

2 Select the level meter pattern you want.
As you turn the control dial, the level meters change as follows:

Off ↔ 1
3 ↔ 2
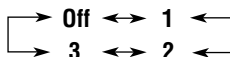
Meter 1:
The audio level meter fluctuates vertically.
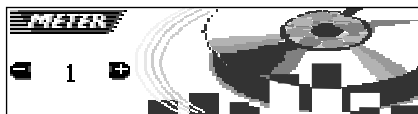
Meter 2:
The speaker on the display vibrates as input audio level changes.
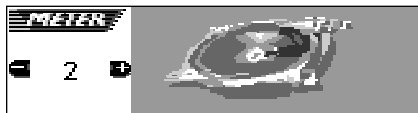
Meter 3:
The left and right audio level meters appear.
• If the display pattern is changed, only one audio level meter will be shown.
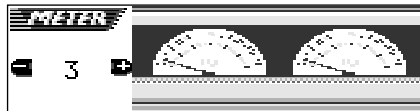
Off:
No level meter is shown. The source animation appears.

NOTICE:
The illustrations of the display used in this manual are mainly of the initial setting when shipped from the factory. If you have changed the display patterns or some PSM items, the actual displays you see will be different.

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ENGLISH
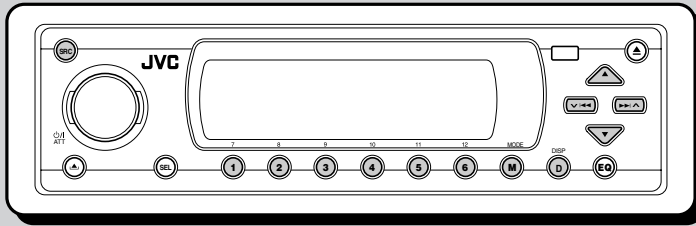
The operations of this section are mainly explained using the buttons on the control panel. When the remote controller can be used for the same operations, it is then explained.

Listening to the radio

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

Searching for a station automatically: Auto search

This operation is also possible from the remote controller.

1 Select the band (FM1 – 3, AM).

1 Press SRC (source) repeatedly to select the tuner.

2 Press and hold SRC. Each time you press and hold the button, the band changes.
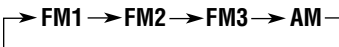
$$\rightarrow FM1 \rightarrow FM2 \rightarrow FM3 \rightarrow AM \rightarrow$$

Selected band appears.

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

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

2 Start searching for a station.
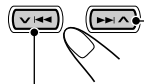
To search for stations of higher frequencies

To search for stations of lower frequencies

When a station comes in, searching stops.

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

When using the remote controller

1 Press FM or AM.
  • When selecting the FM bands, press FM repeatedly until the band you want is selected.

2 Press ▶▶I or I◀◀ to start searching.

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ENGLISH
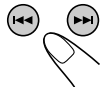
Searching for a station manually: Manual search

1 Select the band (FM1 – 3, AM).

① Press SRC (source) repeatedly to select the tuner.

② Press and hold SRC. Each time you press and hold the button, the band changes.
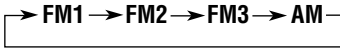
$$\rightarrow FM1 \rightarrow FM2 \rightarrow FM3 \rightarrow AM$$

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

2 Press and hold ►►| ∧ or ∨ |◄◄ until "Manual Search" starts flashing on the display.

TUNER
FM1
88.3MHz
STEREO
FLAT
Manual Search
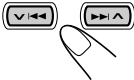
3 Tune in to a station you want while "Manual Search" is flashing.
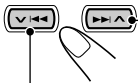
To tune in to stations of higher frequencies

To tune in to stations of lower frequencies

- If you release your finger from the button, the manual mode automatically turns off after 5 seconds.
- If you hold down the button, the frequency keeps changing (in 200 kHz intervals for FM and 10 kHz for AM) until you release the button.

When an FM stereo broadcast is hard to receive:

1 Press MODE (M) to enter the functions mode while listening to an FM stereo broadcast. "Mode" appears on the display.

MODE
M

2 Press number button 1 to select "Mono On" while "Mode" is still on the display. Each time you press the button, "Mono On" and "Mono Off" appears alternately.

See page 30 for this function.

TUNER
FM1
88.3MHz
Mono On
MONO   SSM   DUAL
7   8   9   10   11   12

1 2 3 4 5 6

After about 5 seconds
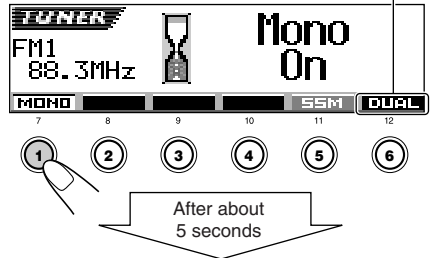
The display returns to the source indication screen.

TUNER
FM1
88.3MHz
MONO
FLAT
ON AIR

When "Mono On" is selected, the MONO indicator appears, and the sound you hear becomes monaural but the reception will be improved.

Storing stations in memory

You can use one of the following two methods to store broadcasting stations in memory.
- Automatic preset of FM stations: SSM (Strong-station Sequential Memory)
- Manual preset of both FM and AM stations

FM station automatic preset: SSM

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

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

1 Press SRC (source) repeatedly to select the tuner.

2 Press and hold SRC. Each time you press and hold the button, the band changes.
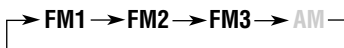
➔ **FM1** ➔ **FM2** ➔ **FM3** ➔ **AM**

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

2 Start automatic preset.

1 Press MODE (M) to enter the functions mode.

MODE "Mode" appears on the display.

2 Press and hold number button 5 while "Mode" is still on the display.
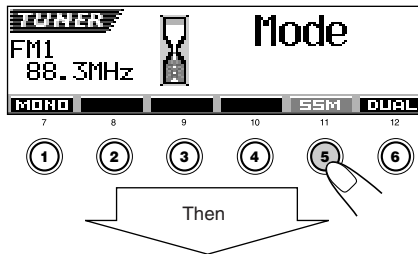
Then

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

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

Manual preset

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

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

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

1 Press SRC (source) repeatedly to select the tuner.

2 Press and hold SRC. Each time you press and hold the button, the band changes.

➔ **FM1** ➔ **FM2** ➔ **FM3** ➔ **AM**

ENGLISH
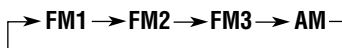
2 Tune in to a station (in this example, of 92.5 MHz).

To tune in to stations of higher frequencies

To tune in to stations of lower frequencies

TUNER ON AIR
FM1
92.5MHz
STEREO
FLAT
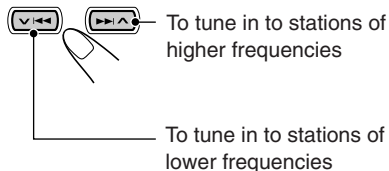
3 Press and hold the number button (in this example, 1) for more than 2 seconds.

7
1

TUNER Preset1 ON AIR
FM1 92.5 MHz
1:28 STEREO FLAT

The display pattern automatically changes like the above pattern (see page 15). The preset number flashes for about 5 seconds, then the previous display pattern resumes.

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

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

Tuning in to a preset station

You can easily tune in to a preset station. Remember that you must store stations first. If you have not stored them yet, see "Storing stations in memory" on pages 13 and 14.

Selecting a preset station directly

1 Select the band (FM1 – 3, AM).

SRC

1 Press SRC (source) repeatedly to select the tuner.
2 Press and hold SRC. Each time you press and hold the button, the band changes.

→ FM1 → FM2 → FM3 → AM

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

7 8 9 10 11 12
1 2 3 4 5 6
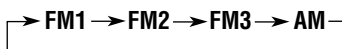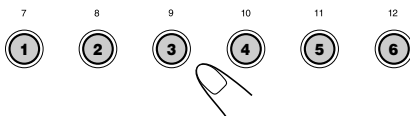
Note:
You can also use the ▲ (up) or ▼ (down) button on the unit to select the next or previous preset stations. Each time you press the ▲ (up) or ▼ (down) button, the next or previous preset station is tuned in.

When using the remote controller
1 Press FM or AM.
• When selecting the FM bands, press FM repeatedly until the band you want is selected.

FM DAB AM

2 Press the number buttons (1 to 6) while holding SHIFT (S).

SHIFT S →

Note:
You can also use the PRESET (FOLDER) ▲ / ▼ buttons for selecting a preset station.

Selecting a preset station using the preset station list

If you forget which stations are stored in which preset numbers, you can check the preset station list, then select your desired station.

1 **Select the band (FM1 – 3, AM).**

SRC

1 Press SRC (source) repeatedly to select the tuner.

2 Press and hold SRC. Each time you press and hold the button, the band changes.
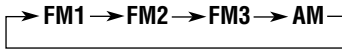
→ FM1 → FM2 → FM3 → AM

2 **Press and hold ▲ (up) or ▼ (down) until the preset station list for the current band (FM1, FM2, FM3, or AM) appears on the display.**

TUNER	🄋 92.5	🄌105.9
FM1 P1	🄑 89.9	🄍Rock
Preset		
STEREO	🄒 MHH	🄎POP
FLAT		
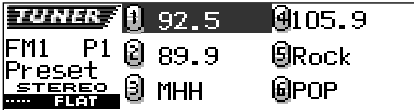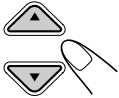
Notes:

• *You can show the other FM band preset station lists (FM1, FM2, or FM3) by pressing ▲ (up) or ▼ (down).*

• *If a name has been assigned to a station (see page 57), it will be shown instead of the station frequency.*

3 **Select the number (1 – 6) for the preset station you want.**
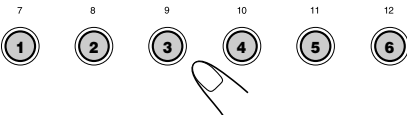
7   8   9   10   11   12
①   ②   ③   ④   ⑤   ⑥

Changing the display pattern

By pressing DISP (D), you can change the information shown on the display.

DISP
D

Each time you press the button, the display patterns change as follows:

TUNER	🔆	ON AIR
FM1 P1		
88.3MHz		
STEREO		
FLAT		

Appears only when selecting a preset station number.

TUNER	Preset 1	ON AIR
FM1	88.3 MHz	
	1:28	STEREO FLAT

Clock time

NO NAME	P1	ON AIR
FM1	88.3 MHz	
	1:28	STEREO FLAT

If a name has been assigned to a station, it will be shown instead of "NO NAME."

TUNER	
FM1 P1	1:28
88.3MHz	
STEREO FLAT	

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▶ PLAYABLE DISCS

Discs you can play:

Disc Type	Mark (Logo)	Video Format	Region Code*
DVD Video	**DVD** VIDEO™ **DVD** VIDEO™	NTSC	1 ALL
Video CD	COMPACT disc DIGITAL VIDEO **Video CD**		————
Audio CD	COMPACT disc DIGITAL AUDIO COMPACT disc DIGITAL AUDIO TEXT	————	————
MP3 disc	CD-Rs or CD-RWs including MP3 files with the file extension code <mp3>. They must be recorded in the format compliant with ISO 9660 Level 1, ISO 9660 Level 2, Romeo, and Joliet.		

• On some discs, the actual operations may be different from what is explained in this manual.
• The following discs cannot be played back;
  – DVD-Audio, DVD-ROM, DVD-RAM, DVD-R, DVD-RW, 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."

ALL   1   1 2   1 2 3 4

Examples:

If you insert a DVD Video disc of an incorrect Region Code
"REGION CODE ERROR!" appears on the monitor, and "Please Eject" flashes on the display. (If the control panel is not yet closed, the disc ejects automatically.)

Disc structure

DVD
A DVD disc consists of **Titles**, and each title may be divided into **Chapters**.
For example, if a DVD disc contains some movies, each movie may have its own title number, and it may be further divided into chapters.

Title 1			Title 2	
Chapter 1	Chapter 2	Chapter 3	Chapter 1	Chapter 2
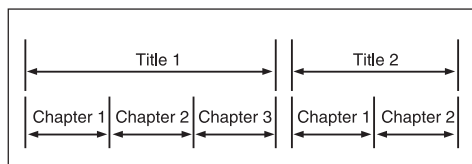
Video CD (VCD) and Audio CD (CD)
On the other hand, a VCD or CD consists of **Tracks**.
In general, each song has its own track number. (On some discs, each track may also be divided by **Indexes**.)
When playing back a VCD with the Playback Control (PBC) function, you can select what to view using the menu shown on the monitor. (While operating a VCD using the menu, some of the functions such as Repeat and Track Search may not work.)

| Track 1 | Track 2 | Track 3 | Track 4 | Track 5 |
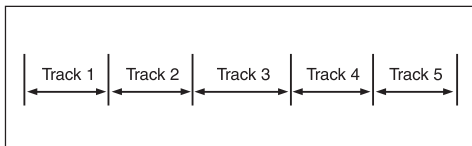
MP3 discs

MP3 is an abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3. MP3 is simply a file format with a data compression. By using MP3 format, one CD-R or CD-RW can contain 10 times as much data as a regular CD can.

On an MP3 disc, files (also called "tracks" and both words are used interchangeably in this manual) are usually grouped into a folder. Folders can also include other folders, creating hierarchical layers of folders.

This unit can recognize up to 150 files per folder, and up to 99 folders per disc (up to 14,850 files). The unit ignores those exceeding the maximum number and cannot play them back.
• All folders on the disc are counted in the total number of 150, even a folder which does not include any MP3 files.

| Folder 1 | | | Folder 2 | |
| Track 1 | Track 2 | Track 3 | Folder 3 | Folder 4 |
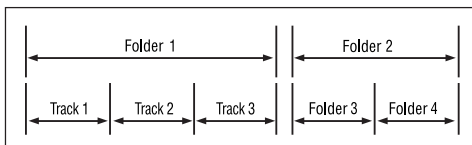
Notes for MP3 disc
• *MP3 discs require a longer readout time, which differs due to the complexity of the folder/file configuration.*
• *This unit supports "multi-session" discs.*
• *This unit cannot play "packet write" discs.*
• *The unit can play MP3 files with the correct extension code—<.mp3> (case insensitive—any combination of upper and/or lower is acceptable)*
• *It is recommended that MP3 files be recorded at a sample rate of 44.1 kHz and at a data transfer rate of 128 kbps.*
• *If a file has a file name consisting of more than 62 characters, it will neither be recognized nor played back.*
• *For more information about MP3 discs, see "A Guide to MP3" (separate volume).*

About sounds reproduced through the rear terminals
• **Through the analog terminals (Speaker out/LINE OUT/2nd AUDIO OUT):**
2-channel signal is emitted.
When playing a multi-channel encoded disc, multi-channel signals are downmixed. (AUDIO—ANALOG DOWN MIX: see page 46)
• **Through DIGITAL OUT (optical):**
Digital signals (Linear PCM, Dolby Digital*, DTS**) are emitted through this terminal. (For more details, see page 71.)
To reproduce multi-channel sounds such as Dolby Digital and DTS, connect an amplifier or a decoder compatible with these multi-channel sources to this terminal, and set "DIGITAL AUDIO OUTPUT" to the correct value. (See page 46.)

• **About Dual Zone**
While you are listening to the radio, CD changer, or external component through the speakers built into your car compartment, you can listen to the playback sound of this DVD/CD player using the headphones connected to the 2nd AUDIO OUT plug at the same time.
• For details, see "DUAL ZONE OPERATIONS" on page 30.

* *Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.*
** *"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.*

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BASIC DISC PLAYBACK
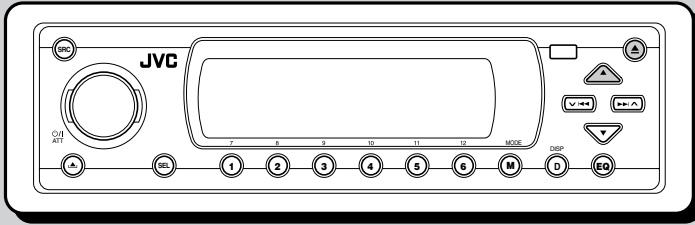
The following marks used in this manual indicate the playable discs.

DVD Video

Video CD with/without PBC

Video CD with PBC

Audio CD

MP3 disc

All discs listed here
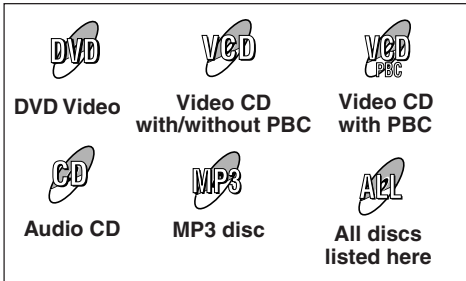
Before performing any operations, make sure the following....
• Turn on the monitor for playing a DVD or VCD. If you turn on the monitor, you can also control the CD and MP3 playback by referring to the monitor screen.
• **For DVD playback, you can change the Setup Menu setting to your preference. (See pages 43 – 46.)**
• When you want to operate the DVD/CD player using the buttons on the control panel, see "OTHER DISC OPERATIONS" on pages 35 to 42.

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 control panel.
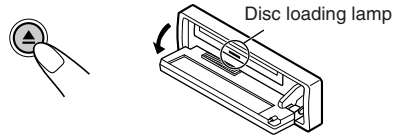
Disc loading lamp

2 Insert a disc into the loading slot.
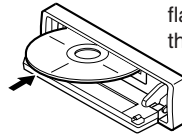
The disc loading lamp start flashing, and the unit draws in the disc automatically.

DO NOT insert a disc while the disc loading lamp is flashing* or is not lit**.
* Flashing: while loading or ejecting a disc
** Not lit: when a disc has been loaded.

3 Close the control panel by hand.
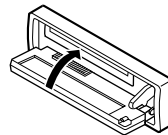
The disc type is automatically detected, and playback starts automatically. (If a disc is CD, VCD without the PBC function, or MP3, playback will be repeated until you stop it.)

Now
Reading

FLAT
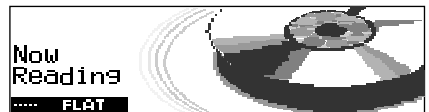
• If a menu appears while playing a DVD or VCD with PBC function, see "Menu operations" on page 24.

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• **Display indications when inserting a DVD:**
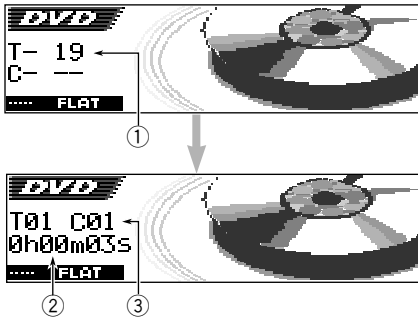
① Total title number
② Elapsed playing time of the current title
③ Current title number and chapter number

• **Display indications when inserting a VCD or CD:**
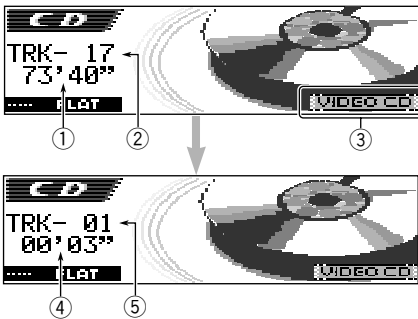
① Total playback time of the disc
② Total track number
③ VIDEO CD indicator: appears only when playing back a Video CD.
④ Elapsed playing time of the current track
⑤ Current track number

• **Display indications when inserting an MP3 disc**
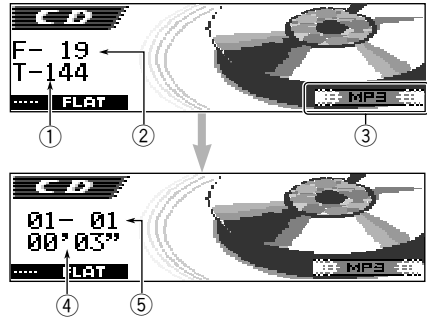
① Total track number
② Total folder number
③ MP3 indicator
④ Elapsed playing time of the current track
⑤ Current folder number and track number

Note:
When a new folder starts playing, its folder name is shown on the display (the display pattern automatically changes for a while—see page 42.)

Notes:
• *When a disc is already in the loading slot, selecting "DISC" as the source starts disc play.*
• *This unit cannot read or play an MP3 file without the extension code <mp3>.*
• *When a disc is inserted upside down, the disc automatically ejects (if the control panel is open).*
  If the control panel is closed, the source changes to the previously selected source, "Please Eject" flashes on the display.

To stop playback temporarily

Press **II on the remote controller**.
"Pause" flashes on the display.

• For DVD and VCD only: A still picture appears.

  Frame by Frame Playback—You can advance the still picture frame by frame by pressing the **II** repeatedly.
  To resume normal speed, press ▶.

  Slow Motion Playback— You can advance the still picture in slow motion by pressing ▶▶ or ◀◀. Each time you press the button, the search speed changes as follows:

  1/32 ➡ 1/16 ➡ 1/8 ➡ 1/4 ➡ 1/2

  To resume normal speed, press ▶.

Notes:
• *No sound comes out during Reverse Slow Motion Playback*
• *When playing a VCD, Reverse Slow Motion Playback is prohibited.*

To replay the previous scenes —One Touch Replay

Press ▶ **on the remote controller** (or ▲ (up) **on the control panel**) during play.
The playback position moves back about 10 seconds before the current position.

Notes:
• *This function works only within the same title.*
• *For some DVDs, this function does not work.*

To stop playback

Press ■ **on the remote controller.**
• Except for MP3 discs: This unit can remember the end point (until the disc is ejected), and when you start playback again, playback begins from where it has been stopped. (Resume play)
• For MP3 discs: This unit can remember the last playing track (until the disc is ejected), and when you start playback again, playback begins from the beginning of the same track.

To eject a disc

Press ▲ **on the control panel**.
Playback stops and the control panel flips down. The disc comes out of the loading slot.

Locating a particular title/chapter/track

To go to the next or previous chapter/tracks

• For DVD: During play or pause

Press ▶▶I to go ahead to the beginning of the next chapter/track. Each time you press the button, the beginning of the next chapter/track is located (and played back).

Press I◀◀ to go back to the beginning of the current chapter/track.
Each time you press the button, the beginning of the previous chapter/track is located (and played back).

Note:
Playback will not start automatically if you locate the chapter/track while a disc is pausing or not playing.

To locate a particular title/chapter/track directly

• For DVD: During play or pause—select a chapter
  While stopped—select a title
• For VCD: While PBC (see page 24) is not in use.

From the remote controller:
While holding SHIFT (S), press number buttons to select a title, chapter, or track number you want.
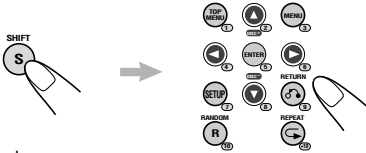
Examples:
• To select number 5, press 5 while pressing SHIFT (S).
• To select number 10, press 10 while pressing SHIFT (S).
• To select number 23, press +10, +10, then 3 while pressing SHIFT (S).

Notes:
• *If you directly select the track number for a VCD with the PBC function while it is not playing, playback starts with PBC function canceled. (See page 24).*
• *Playback will not start automatically if you select a chapter or track during pause.*

Locating a particular folder
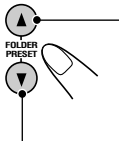
Press FOLDER (PRESET) ▲ to select the next folder. Each time you press the button, the next folder is located and the first track in it starts playing.

Press FOLDER (PRESET) ▼ to select the previous folder. Each time you press the button, the previous folder is located and the first track in it starts playing.

Note:
If a folder does not contain any MP3 tracks, it is skipped.

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-subtitle languages (for DVD only).

⊙ : Appears at the beginning of a scene containing multi-audio languages (for DVD only).

🎥 : Appears at the beginning of a scene containing multi-angle views (for DVD only).

▶ : Appears when you press ►.

∥ : Appears when you press ❚❚.

▶▬ : Appears when you start forward slow motion. (Slow motion speed also appears.) (for DVD and VCD only).

◀▬ : Appears when you start reverse slow motion. (Slow motion speed also appears.) (for DVD only).

▶▶▬ : Appears when you start forward search. (Search speed also appears.)

◀◀▬ : Appears when you start reverse search. (Search speed also appears.)

↻▬ : Appears when you select repeat mode (see page 28).

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Selecting subtitles

While playing a disc containing subtitles in different languages, you can select which subtitle to display.
• You can also set your favorite subtitle language as the initial language shown on the monitor. (See pages 43 to 45.)

Select a desired subtitle language.

The following pop-up window appears on the monitor. Each time you press the button, the subtitle language changes.

1/3
ENGLISH
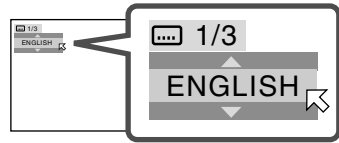
Ex. When the disc has 3 selections—
English, French, Spanish and no subtitle (OFF)

Notes:

• *When the pop-up window is shown, you can also select the subtitle languages by pressing cursor buttons (▲/▼).*
• *For some DVDs and VCDs, changing the subtitle language without using the disc menu is prohibited.*

AUDIO

ANGLE

■

SUBTITLE

TOP MENU

ENTER

MENU

Cursor

Number

RETURN

SHIFT
(S)

ZOOM
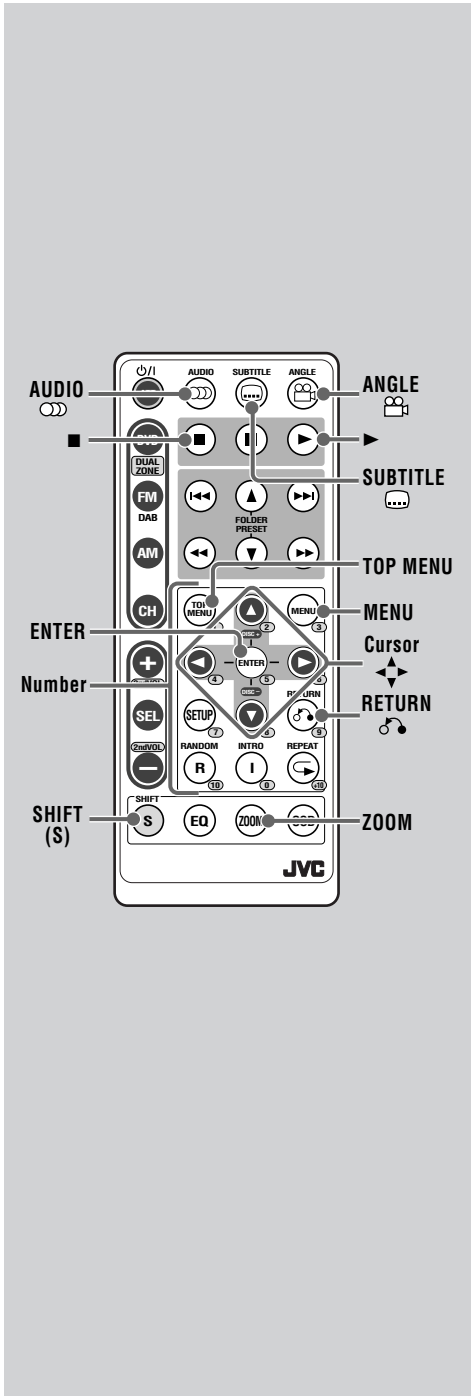
Selecting audio languages

DVD VCD

For DVD:

While playing a disc containing multiple audio languages (ex. English, French, Spanish), you can select the language to listen to.

• You can also set your favorite language as the initial audio language. (See pages 43 to 45.)

For VCD:

When you play a VCD, you can select the audio channel to play. This is convenient when playing a Karaoke VCD.

Select a desired audio language (or audio channel).

AUDIO

The following pop-up window appears on the monitor. Each time you press the button, the audio language (or audio channel) changes.

• **For DVD:**

1/3
ENGLISH
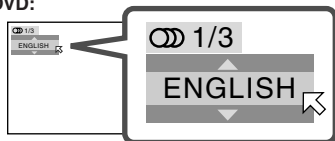
Ex. When the disc has 3 selections—
English, French, and Spanish

• **For VCD:**

ST
ST
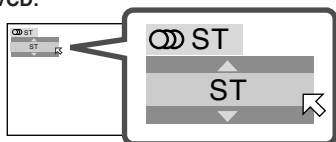
• ST: To listen to normal stereo (left/right) playback.
• L: To listen to the L (left) audio channel.
• R: To listen to the R (right) audio channel.

Notes:

• *When the pop-up window is shown, you can also select the audio languages (or audio channels) by pressing cursor buttons (▲/▼).*
• *For some DVDs and VCDs, changing the audio language (or audio channel) without using the disc menu is prohibited.*

Selecting multi-angle views

DVD

While playing a disc containing multi-angle views, you can view the same scene at different angles.

Select a desired view angle.

ANGLE

The following pop-up window appears on the monitor. Each time you press the button, the view angle changes.

1/3
1
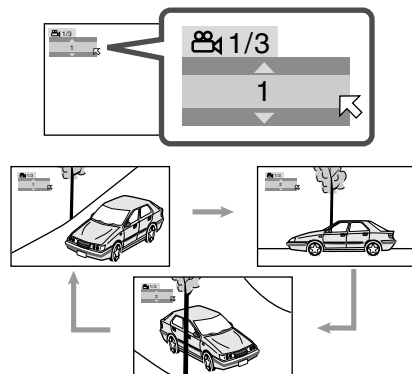
Ex.: When the disc has 3 multi-angle views

Note:

When the pop-up window is shown, you can also select the multi-angle views by pressing cursor buttons (▲ /▼).

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Menu operations

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

While playing a DVD:

DVD discs generally have their own menus or title lists. A title list usually contains titles of movies and songs recorded. On the other hand, a menu usually contains various information about the disc and playback selections.

1 Press TOP MENU or MENU.
A title list or menu will appear on the monitor.

or
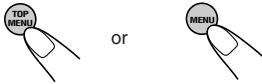
2 Select the item you want from the menu or the title list, by pressing cursor buttons (▲ / ▼ / ► / ◄) then ENTER.
The unit starts playback of the selected item.
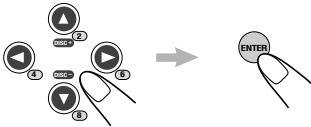
• On some discs, you can also select items by pressing the number buttons corresponding to the item numbers listed.

To cancel the title list or menu

Press TOP MENU or MENU.

If " ⊘ "appears on the monitor in step 1, the disc does not have a title list or menu.

While playing a VCD:

The PBC (PlayBack Control) function allows you to operate the VCD using menus.
When you start playback, a menu will automatically appear on the monitor.
• A menu may be a list of items, divided screens, or some moving pictures.

Select the item you want from the menu.
• When a list of items is displayed on the monitor, press the number buttons to select an item.
• When "►" or "SELECT" is displayed on the monitor, press ► (or ENTER if pressing ► does not work) to start playback.

How to select items using the number buttons
• To select number 5, press 5 while pressing SHIFT (S).
• To select number 10, press 10 while pressing SHIFT (S).
• To select number 23, press +10, +10, then 3 while pressing SHIFT (S).

To return to the previous menu

Press RETURN ⮌.

To cancel the PBC playback

You can cancel the menu-driven operations (PBC function):
1 Press ■ to stop playback.
2 Press number buttons to select a track.
Normal playback starts from the selected track.

To resume the PBC function again, press TOP MENU or MENU.

or
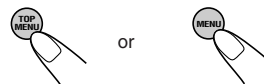
Zoom in

You can zoom into a particular portion of the picture while playing a DVD or VCD.

1 Zoom in to the picture.

The pop-up window appears on the monitor to show the current magnification. Each time you press the button, magnification change as follows:

➡ x 2 ➡ x 4 ➡ x 8 ➡ x 1 ➡ x 2 ➡ x 4 ➡
x 8 ➡ • • • •

Ex. When "ZOOM x4" is selected

2 Move the zoomed-in portion on the monitor.
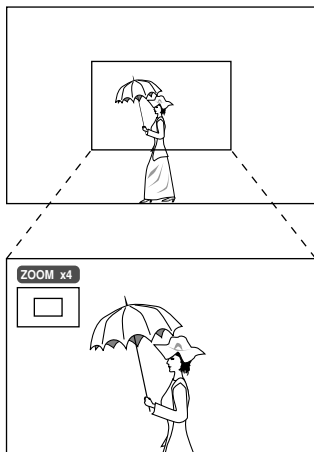
Note:
While zoomed in, the picture may look coarse.

To cancel Zoom, press ENTER or press ZOOM repeatedly until "ZOOM x1" appears.

ENGLISH

ENTER

Cursor
✦

Number

REPEAT
↪

SHIFT
(S)

OSD

INTRO
(I)

RANDOM
(R)

Searching for a particular point

Forward/Reverse Search

You can search for a particular point while playing a disc.

To fast-forward or reverse the chapter or track, press ►► or ◄◄ while playing a disc.

Each time you press the button, the search speed changes as follows:

$$x2 \rightarrow x5 \rightarrow x10 \rightarrow x20 \rightarrow x60*$$

To resume normal speed, press ►.

When using the buttons on the control panel
Press and hold ►►I ∧ or ∨ I◄◄ while playing a disc.
The search speed changes: x2 ➡ x10.
• If you release the button, normal speed playback resumes.

Notes:
* "x60" is only for DVD.
* When playing an MP3 disc, no sound comes out during Search.
* When playing a DVD or VCD, no sound comes out during x5, x10, x20, and x60 Search.
* Reverse Search stops automatically when it reaches the beginning of the disc. Playback resumes at normal speed.

Time Search

DVD VCD CD

You can start playing a particular point by specifying the elapsed playing time of the current title (for DVD) and of the disc (CD and VCD).

• For DVD: During play or pause.
• For VCD: While PBC (see page 24) is not in use.

1 Press OSD twice.

The on-screen bar appears on the monitor.
• For details on the on-screen bar, see pages 32 and 33.

DVD-VIDEO	🔲DOLBY DIGITAL **5.1ch**	TITLE 33	CHAP 33	TOTAL 1:25:58 ▶

TIME | ↻OFF | ⊕➡ | CHAP. ➡ | ⊙D 1/3 | ⊡ 1/5 | 🎦 1/3

2 Move ⬚ to ⊕➡ (Time Search), then press ENTER.

DVD-VIDEO	🔲DOLBY DIGITAL **5.1ch**	TITLE 33	CHAP 33	TOTAL 1:25:58 ▶

TIME | ↻OFF | ⊕➡ | CHAP. ➡ | ⊙D 1/3 | ⊡ 1/5 | 🎦 1/3

TIME _:_:_

The time entry window appears.

3 Press number buttons (0 to 9) to enter the time while holding SHIFT (S).

Example (for DVD VIDEO)
To play back from 2(H):34(M):00(S)
Press number buttons 2, 3, then 4.

TIME 2 : 34 :_ _
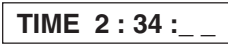
To play back from 58(M):00(S)
Press number buttons 0, 5, then 8.

TIME 0 : 58 :_ _
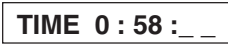
Example (for Video CD/Audio CD)
To play back from 23(M):40(S)
Press number buttons 2, 3, then 4.

TIME 23 : 4 _
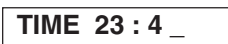
You do not have to press "0" to enter the trailing zeros.

To correct a mistake
Press cursor button ◄ repeatedly to move back to the digit where you entered a wrong number, and reenter the correct one.

4 Finish entry.
The unit starts playback from the specified time.

To erase the on-screen bar, press OSD once.

Chapter Search DVD

You can select a specific chapter when a DVD is inserted.

1 Press OSD twice.
The on-screen bar appears on the monitor.
• For details about the on-screen bar, see pages 32 and 33.

DVD-VIDEO ᴰᴰ ᴰᴼᴸᴮʸ **5.1ch** TITLE 33 CHAP 33 TOTAL 1:25:58 ▶
TIME ↻OFF ⊕➡ **CHAP.➡** ⟲ 1/3 ⊞ 1/5 🄰1 1/3

2 Move ▷ to CHAP.➡ (Chapter Search), then press ENTER.

DVD-VIDEO ᴰᴰ ᴰᴼᴸᴮʸ **5.1ch** TITLE 33 CHAP 33 TOTAL 1:25:58 ▶
TIME ↻OFF ⊕➡ **CHAP.➡** ⟲ 1/3 ⊞ 1/5 🄰1 1/3
CHAPTER _

The chapter number entry window appears.

3 Press number buttons (0 to 9) to enter the chapter number while holding SHIFT (S).
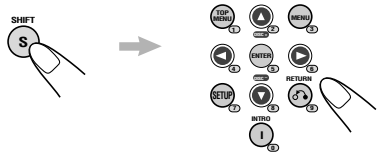
• To select number 5, press 5 while pressing SHIFT (S).
• To select number 10, press 1, then 0 while pressing SHIFT (S).
• To select number 23, press 2, then 3 while pressing SHIFT (S).

To correct a mistake
• To correct a two digit number, enter the correct number again.
• To correct a single digit number, press 0 first, then enter the correct number.

4 Finish entry.
The unit starts playback from the selected chapter.

To erase the on-screen bar, press OSD once.

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Playing in various play modes

You can use any of three methods to activate various play modes.
- Using the direct buttons on the remote controller.
- Using the on-screen bar (see page 32).
- Using the buttons on the control panel (see page 38).

In the following explanation, how to use the direct buttons on the remote controller is explained.

Repeat Play

You can repeat a title, chapter, track, or disc endlessly.

- For VCD: While PBC (see page 24) is not in use.

Select the repeat mode you want.

REPEAT

The menu bar icon appears on the monitor to show the selected mode. Each time you press the button, the repeat mode changes as follows:

• **For DVD:**

$$\text{CHAP} \longrightarrow \text{TITLE}$$
$$\text{OFF} \longleftarrow$$

• CHAP:	Current (or specified) chapter will be repeated.
	• ⟳CHAP indicator appears on the monitor.
• TITLE:	Current title will be repeated.
	• ⟳TITLE indicator appears on the monitor.
• OFF:	Repeat Play is canceled.
	• ⟳OFF indicator appears on the monitor.

• **For VCD/CD:**

$$\text{TRACK} \longleftrightarrow \text{OFF}$$

• TRACK:	Current (or specified) track will be repeated.
	• ⟳TRACK indicator appears on the monitor.
• OFF:	Track Repeat is canceled. All the tracks in the disc will be repeated.
	• ⟳OFF indicator appears on the monitor.

• **For MP3:**

$$\text{TRACK} \longrightarrow \text{FOLDER}$$
$$\text{OFF} \longleftarrow$$

• TRACK:	Current (or specified) track will be repeated.
	• "REPEAT TRACK" appears on the MP3 CONTROL screen (see page 34).
• FOLDER:	All the tracks in the current (or specified) folder will be repeated.
	• "REPEAT FOLDER" appears on the MP3 CONTROL screen (see page 34).
• OFF:	Track Repeat and Folder Repeat is canceled. All the tracks in the disc will be repeated.

Notes:
- *On some DVDs, Repeat Play may be canceled by the disc itself.*
- *On CD, VCD, and MP3 discs, Repeat Play mode cannot be turned off.*
- *Repeat Play mode will be canceled when you start playing back a VCD with the PBC function.*

28

Random Play

VCD CD MP3

You can play back tracks on a disc (or in a folder for MP3 discs) at random.

> • For VCD: While PBC (see page 24) is not in use.

Select the random mode you want.

The menu bar icon appears on the monitor to show the selected mode. Each time you press the button, the random mode changes as follows:

• For CD/VCD:

DISC ←——→ OFF
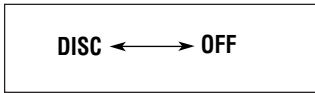
• DISC:	All the tracks in the disc will be played at random.
	• RND. indicator on the menu bar (see page 33) is highlighted in blue.
• OFF:	Random Play is canceled.

• For MP3:

→ FOLDER → DISC ⌐
⌊— OFF ←

• FOLDER:	All the tracks in the folder will be played at random, then move to the next folder and so on.
	• "RND FOLDER" appears on the MP3 CONTROL screen (see page 34).
• DISC:	All the tracks in the disc will be played at random.
	• "RND DISC" appears on the MP3 CONTROL screen (see page 34).
• OFF:	Random Play is canceled.

Intro Scan

VCD CD MP3

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

> • For VCD: While PBC (see page 24) is not in use.

Select the intro scan mode you want.

The menu bar icon appears on the monitor to show the selected mode. Each time you press the button, the intro scan mode changes as follows:

• For CD/VCD:

TRACK ←——→ OFF
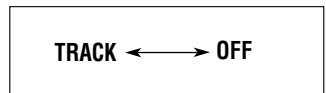
• TRACK:	The beginnings of all the tracks in the disc will be played.
	• INTRO indicator on the menu bar (see page 33) is highlighted in blue.
• OFF:	Intro Scan is canceled.

• For MP3:
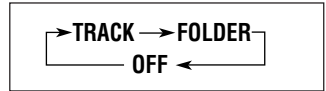
→ TRACK → FOLDER ⌐
⌊— OFF ←

• TRACK:	The beginnings of all the tracks in the disc will be played.
	• "INTRO TRACK" appears on the MP3 CONTROL screen (see page 34).
• FOLDER:	The beginnings of the first tracks in all folders will be played.
	• "INTRO FOLDER" appears on the MP3 CONTROL screen (see page 34).
• OFF:	Intro Scan is canceled.

29

DUAL ZONE OPERATIONS

**DUAL
ZONE
(DVD)**

**2ndVOL
+/−**

- DO NOT put on the headphones while driving a car. It is dangerous to shut off the outside sounds while driving.
- DO NOT put on the headphones before adjusting the headphone volume level properly; otherwise, it may damage your hearing.

For Dual Zone operations, aim the remote controller at the remote sensor on the receiver as usual, not at the monitor.
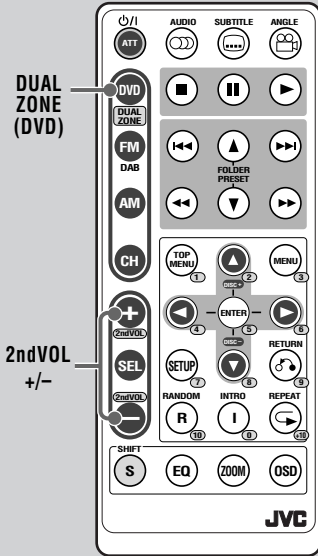
Listening with headphones

By connecting headphones to the 2nd AUDIO OUT plug on the rear, you can listen to the playback sound through the DVD/CD player while listening to another source (except AM) through the speakers.
You can activate Dual Zone while listening to any source.

- You can operate the DVD/CD player using the remote controller.

1 While holding SHIFT (S), press DUAL ZONE (DVD) to activate Dual Zone.

Each time you press DUAL ZONE (DVD), Dual Zone is turned "On" and "Off" alternately.

Then

DUAL indicator appears.

The source automatically changes to "DISC."

To select a different source (except AM) to listen through the speakers, press SRC on the control panel. By using the buttons on the control panel, you can operate the newly selected source without affecting Dual Zone operations.

30

2 Adjust the headphone volume through the 2nd AUDIO OUT plug.

SHIFT
S

2ndVOL ➕

2ndVOL ➖

3 Operate the DVD/CD player using the remote controller by referring to the monitor screen.

• When Dual Zone is in use, you can only operate the DVD/CD player using the remote controller.
  To control the other sources (except AM) while Dual Zone is activated, use the buttons on the control panel.

On the control panel:
You can also activate and deactivate Dual Zone, but can neither control the DVD/CD player nor adjust the headphone volume level.
• **To adjust the headphone level,** use the remote controller.

1 Press MODE (M) to enter the functions mode while listening to any source.
"Mode" appears on the display.

MODE
M

2 Press number button 6 while "Mode" is still on the display.

12
6

DUAL ZONE

Then

T01 C04
0h03m08s
FLAT
DUAL
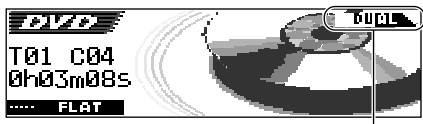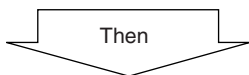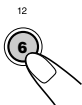
DUAL indicator appears.

The source automatically changes to "DISC."

To cancel Dual Zone operations, repeat steps *1* and *2* ("Dual Zone Off" appears on the display.)

When the sounds through the rear speakers are troublesome while listening with the headphones
You can deactivate the rear speaker sound output.
• See also "Changing the general settings (PSM)" on page 50.

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2 Press number button 5 to select "AUDIO"— Audio category of the PSM settings.
3 Press ▶▶| ⋀ or ⋁ |◀◀ to select "Rear SPK."
4 Turn the control dial counterclockwise to select "Off."
5 Press SEL (select) to finish the setting.

To reactivate the rear speakers, repeat the same procedure and select "On" in step **4** by turning the control dial clockwise.

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OSD DISC OPERATIONS
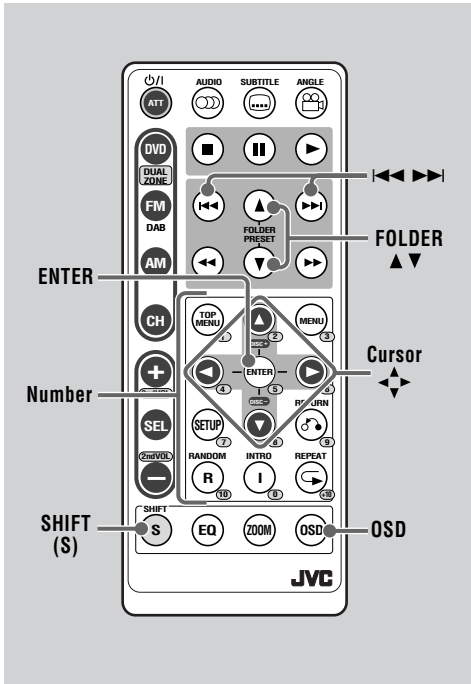
Operations on the monitor screen

You can show the on-screen bar on the monitor, and operate the disc using the on-screen bar.

Basic procedure for DVD, VCD and CD

1 **Press OSD once.**

A status bar for the type of disc inserted appears on the monitor.
• For details, see the left column.

Note:
When you start playing a CD, the status bar automatically appears.

2 **Press OSD again.**

A menu bar appears under the status bar.
• For details about the items on the menu bar, see page 33.

• For DVD

| DVD-VIDEO | ⬛ DOLBY DIGITAL 5.1ch | TITLE 33 | CHAP 33 | TOTAL 1:25:58 | ▶ |
| TIME | ↻ OFF | ⊕ ➡ | CHAP. ➡ | ⬤ 1/3 | ▭ 1/5 | 🗋 1/3 |

• For VCD

| VCD | | TRACK 38 | TIME 25:58 | ▶ |
| TIME | ↻ OFF | ⊕ ➡ | INTRO | RND. | ⬤ ST |

• For CD
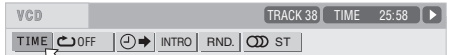
| CD | | TRACK 38 | TIME 25:58 | ▶ |
| TIME | ↻ OFF | ⊕ ➡ | INTRO | RND. |

Note:
While playing a CD Text, the disc information will also be shown on the monitor. (The maximum number of the characters shown on the monitor is 64, while 255 characters on the display of the receiver.)

Status bars for DVD, VCD, and CD

• For DVD

| DVD-VIDEO | ⬛ DOLBY DIGITAL 5.1ch | TITLE 33 | CHAP 33 | TOTAL 1:25:58 | ▶ |
| ① | ② | ③ | ④ | ⑤ | ⑥ |

• For VCD/CD

| CD | | TRACK 38 | TIME 25:58 | ▶ |
| ① | | ⑦ | ⑤ | ⑥ |

① Disc type—DVD-VIDEO, VCD, CD
② Audio signal format type (only for DVD)
③ Current title number (only for DVD)
④ Current chapter number (only for DVD)
⑤ Time information
⑥ Current operation mode—▶, ▮▮, ▮, ▶▶, etc.
⑦ Current track number

Note:
While operating an MP3 disc on the monitor screen, see page 34.

3 **Move ⬡ to an item on the menu bar,
then press ENTER.**

The pull-down window for the selected items
appears.

Ex. When selecting ⟳
(Repeat) for a DVD

When you select **INTRO** or **RND.** , the pull-
down window does not appear. Skip the
following steps.
• See the following explanation.

4 **Select an option or enter a chapter
number.**
• For details, see the following explanation
for each item.

5 **Finish the setting.**
The pull-down window goes off.

To erase the on-screen bar, press OSD once.

What you can do on the on-screen bars

TIME Change the time information on the
status bar. Each time you press ENTER
in step **4** , the following time information
alternately appears.

For DVD:

• TOTAL: Current title elapsed time
• T.REM: Current title remaining time
• TIME: Current chapter elapsed time
• REM: Current chapter remaining time

For VCD and CD:

• TIME: Current chapter elapsed time
• REM: Current track remaining time
• TOTAL: Disc elapsed time
• T.REM: Disc remaining time

⟳ Select the Repeat Play modes. Each
time you press cursor ▲ or ▼ in step **4**,
the repeat mode changes.
• For available repeat modes, see
page 28.

🕐➡ Activate Time Search.
Press the number buttons to enter the
elapsed time to a particular point in step
4.
• For details, see page 26.

CHAP.➡ Activate Chapter Search (only for DVD).
Press the number buttons to enter a
chapter number in step **4**.
• For details, see page 27.

⟪⟫ Select multi-audio sound (for DVD) or
playback channel (for VCD).
Each time you press cursor ▲ or ▼ in
step **4**, multi-audio or playback channel
changes.
• For details, see page 23.

⬚ Select the subtitles (only for DVD).
Each time you press cursor ▲ or ▼ in
step **4**, the subtitles change.
• For details, see page 22.

📷 Select the multi-angle views (only for
DVD).
Each time you press cursor ▲ or ▼ in
step **4**, the multi-angle view change.
• For details, see page 23.

INTRO Turns on and off Intro Scan (only for
VCD and CD).
Each time you press ENTER in step **3**,
Intro Scan modes change.
• For details, see page 29.

RND. Turns on and off Random Play (only for
VCD and CD).
Each time you press ENTER in step **3**,
Random Play modes change.
• For details, see page 29.

ENGLISH

33

Basic procedure for MP3 discs

MP3

While playing an MP3 disc, the following MP3 CONTROL screen always shows on the monitor. By referring to this screen, you can easily operate the MP3 disc.
- Up to 32 characters can be shown for the file names on the monitor, while 62 characters on the display of the receiver.
- For more details about MP3 discs, refer to "A Guide to MP3" (separate volume).

MP3 CONTROL screen

① ② ③

| MP3 CONTROL | REPEAT TRACK | Time : 00:03:08 |

Folder : 01 / 10

spring
sumer
fall
winter
sea

Title :
 Begonia
Artist :
 Annie Lim
Album :
 Flowers

Track : 01 / 30   (Total 128)

begonia.mp3
german chamomile.mp3
kiwi fruit.mp3
orchard grass.mp3
petunia.mp3
north pole.mp3
begonia2.mp3
german chamomile2.mp3
kiwi fruit2.mp3
orchard grass2.mp3
petunia2.mp3
north pole2.mp3

④ ⑤ ⑥

① Currently activated play mode
② Elapsed playing time of the current track
③ Cursor (highlighted position)
④ ID3 Tag information (see page 68)
⑤ Folder column—folder names
 (Ex. The first folder is selected out of 10 folders)
 • Only 5 folders can be listed at a time.
⑥ Track column—track names
 (Ex. The first track is selected out of 30 tracks in the current folder. 128 tracks are included in the disc)
 • Only 12 tracks can be listed at a time.

Operations from the remote controller:

To select (highlight) a "Folder" column or "Track" column on the screen, press cursor ► or ◄.

To select a folder, press cursor ▲ or ▼ when the cursor (highlighted position) is in the "Folder" column.
If there are unshown folders, they will appear in this column as you selecting folders.
- By pressing FOLDER (PRESET) ▲ or FOLDER (PRESET) ▼, you can change the folder without respect to the cursor (highlighted) position.

To select a track, press cursor ▲ or ▼ when the cursor (highlighted position) is in the "Track" column.
If there are unshown tracks, they will appear in this column as you selecting tracks.
- By pressing ►►I or I◄◄, you can change the tracks without respect to the cursor (highlighted) position.

To select Repeat Play modes, press REPEAT (↺) repeatedly until the Repeat Play mode you want appears on the screen.
- For details about the Repeat Play modes, see page 28.

To select Random Play modes, press RANDOM (R) repeatedly until the Random Play mode you want appears on the screen.
- For details about the Random Play modes, see page 29.

To select Intro Scan modes, press INTRO (I) repeatedly until the Intro Scan mode you want appears on the screen.
- For details about the Intro Scan modes, see page 29.

Note:
When using the buttons on the control panel, you can use various methods for performing the above operations. These different methods are explained in "OTHER DISC OPERATIONS" on pages 35 to 42.
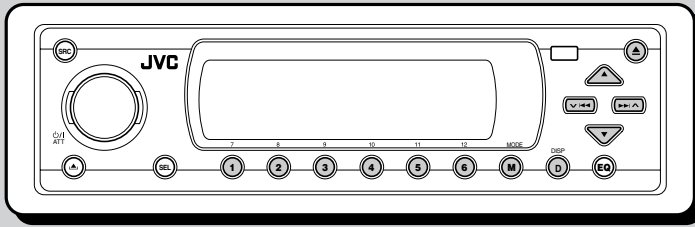
In this section, you can learn how to use the buttons on the control panel in order to operate the DVD/CD player.

Basic disc playback

To stop playback

Press ▼ (down).
- This unit can remember the end point, and when you start playback again, playback begins from where it has been stopped. (Resume play)

To start playback again

Press ▲ (up).
Playback begins from where it has been stopped.

Normally disc playback automatically starts in the following cases:
- **When you insert a disc**
  Playback starts from the beginning of the disc.
- **When change the source to "DISC" (DVD/CD player) if a disc has been inserted**
  Playback starts from where it has been stopped. (Resume play)

Note:
If you press the button during DVD playback, the playback position moves back about 10 seconds before the current position. (See page 20: One Touch Replay)

To eject a disc

Press ▲.
Playback stops and the control panel flips down. The disc comes out of the loading slot.

To fast-forward or reverse the chapter/track (Forward/Reverse Search)
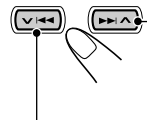
Press and hold ►►I ∧, while playing a disc, to fast-forward the chapter/track. The search speed changes: x2 ➡ x10.

Press and hold ∨ I◄◄ , while playing a disc, to reverse the chapter/track. The search speed changes: x2 ➡ x10.

Notes:
- *When playing an MP3 disc, no sound comes out during Search.*
- *When playing a DVD or VCD, no sound comes out during x10 Search.*
- *Reverse Search stops automatically when it reaches the beginning of the disc. Playback resumes at normal speed.*

To go to the next or previous chapter/tracks

- For DVD: During play or pause.
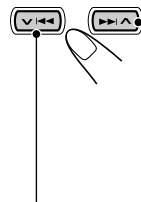
Press ►►I ∧ briefly to go ahead to the beginning of the next chapter/track.
Each time you press the button consecutively, the beginning of the next chapter/track is located and played back.

Press ∨ I◄◄ briefly to go back to the beginning of the current chapter/track.
Each time you press the button consecutively, the beginning of the previous chapter/track is located and played back.

Note:
Playback will not start automatically if you locate the chapter/track while a disc is pausing or not playing.

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Locating a title/chapter/track on a disc

To locate a particular title/chapter/track directly

- For DVD: During play or pause—select a chapter
  While stopped—select a title
- For VCD: While PBC (see page 24) is not in use.
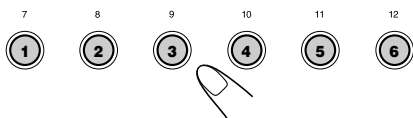
Press the number button corresponding to the title/chapter/track number to start its playback.
- To select a number from 1 – 6:
  Press 1 (7) – 6 (12) briefly.
- To select a number from 7 – 12:
  Press and hold 1 (7) – 6 (12) for more than 1 second.

Notes:
- *If you directly select the track number for a VCD with the PBC function while it is not playing, playback starts with PBC function canceled. (See page 24).*
- *Playback will not start automatically if you select a chapter or track during pause.*

To go to a chapter/track quickly

- For DVD: During play or pause.
- For VCD: While PBC (see page 24) is not in use.

1 Press MODE (M) to enter the functions mode.
"Mode" appears on the display.

While playing a DVD:

While playing a VCD or CD:

While playing an MP3 disc:

2 Press ▲ (up) or ▼ (down), while "Mode" is still on the display.
First time you press ▲ (up) or ▼ (down), the chapter/track skips to the nearest higher or lower chapter/track with a chapter/track number of an even multiple ten (ex. 10th, 20th, 30th).
Then, each time you press the button, you can skip 10 chapters/tracks (see "How to go to the desired chapter/track quickly" that follows).
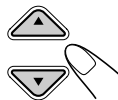
Notes:
- *For CD and VCD: If you perform this operation while a disc is not playing, playback will not start automatically.*
- *Except for DVD: After the last track, the first track will be selected, and vice versa.*
- *While playing an MP3 disc, this operation is possible only within a folder.*

ENGLISH

How to go to the desired chapter/track quickly

• Ex. 1: To select chapter/track number 32 while playing chapter/track number 6

MODE

Chapter/   (Three times)   (Twice)
track 6   ➡ 10 ➡ 20 ➡ 30   ➡ 31 ➡ 32
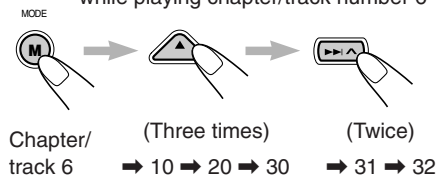
• Ex. 2 :To select chapter/track number 8 while playing chapter/track number 36

MODE

Chapter/   (Three times)   (Twice)
track 36   ➡ 30 ➡ 20 ➡ 10   ➡ 9 ➡ 8

To skip to the next or previous folder

MP3
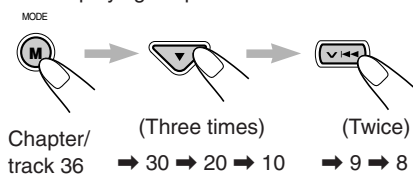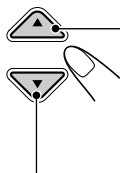
Press ▲ (up) while playing a disc to skip to the next folder.
Each time you press the button consecutively, the next folder is located and the first track in the folder starts playing.

Press ▼ (down) while playing a disc to skip back to the previous folder.
Each time you press the button consecutively, the previous folder is located and the first track in the folder starts playing.

Note:
If the folder does not contain any MP3 tracks, it is skipped.

Selecting a folder/track to play using the lists

MP3

You can show the folder name and track name lists on the display while playing a disc, then select the folder or track you want.

To select a folder and start playback

1 **Press and hold ▲ (up) or ▼ (down) so that the folder name list of the inserted disc appears on the display.**

The name of the currently playing folder will be highlighted on the display.
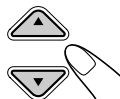
Current folder number

Notes:
• *The display can show only six items at a time. You can show the other items on the next lists by pressing ▲ (up) or ▼ (down).*
• *If you press ►►| ∧ or ∨ |◄◄, the track name list of the current playing folder appears. (See the following column.)*
• *Only folders including MP3 tracks will be listed.*

2 **Select the number (1 – 6) for the folder you want to play.**

37
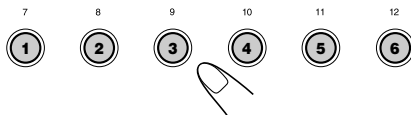
To select a track and start playback

1 **Press and hold ▲ (up) or ▼ (down) so that the folder name list of the inserted disc appears on the display.**

The name of the currently playing folder will be highlighted on the display.

Current folder number

```
╔═══════╗ ①DISCO    ④Is-m
║ 01-  ║ ②POPS     ⑤Bphex
║Folder║ ③K-Shi    ⑥SLK
╚ FLAT ╝
```
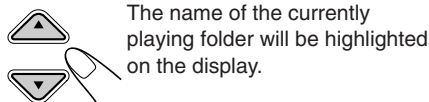
2 **Press ►►I ∧ or ∨ I◄◄ to show the track list of the current folder.**

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

```
Folder name  ←→  Track name
    list            list
```

Current track number

```
╔═══════╗ ①L9.mp3   ④BreakinC
║ - 01 ║ ②MAX150.m ⑤A Porta.
║Track ║ ③urge.mp3 ⑥9888.mp3
╚ FLAT ╝
```
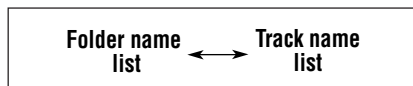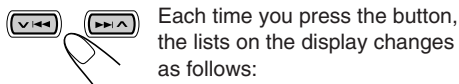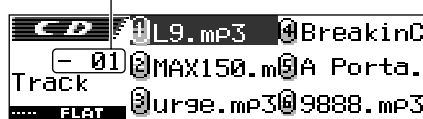
Note:
The display can shows only six items at a time. You can show the other items on the next lists by pressing ▲ (up) or ▼ (down).

3 **Select the number (1 – 6) for the track you want to play.**

```
    7    8    9   10   11   12
   (1)  (2)  (3)  (4)  (5)  (6)
```
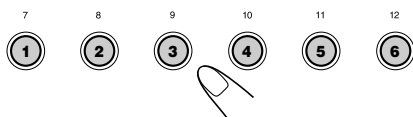
Selecting playback modes

Repeat Play

You can repeat a title, chapter, track, or disc.

- For DVD: During play or pause.
- For VCD: While PBC (see page 24) is not in use.

1 Press MODE (M) to enter the functions mode.
"Mode" appears on the display.

```
╔════════╗         Mode +10▲
║  CD    ║⌛            Track
║TRK- 15 ║            -10▼
║ 00'23" ║
║INTRO RPT RND OFF    DUAL║
```

Ex. While playing a CD

```
╔════════╗         Mode +10▲
║  DVD   ║⌛          Chapter
║T01 C01 ║            -10▼
║0h00m23s║
║   RPT    OFF        DUAL║
```
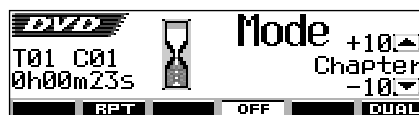
Ex. While playing a DVD

2 Press number button 2, while "Mode" is still on the display.
Each time you press the button, repeat play mode changes as follows:

```
╔════════╗         Repeat
║  CD    ║⌛         Track
║TRK- 15 ║
║ 00'03" ║
║INTRO RPT RND OFF    DUAL║
```
```
    7    8    9   10   11   12
   (1)  (2)  (3)  (4)  (5)  (6)
```
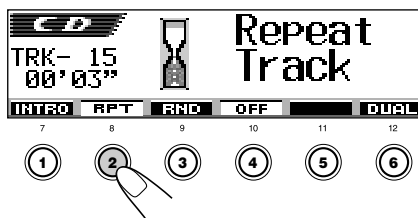
Ex. While playing a CD

• For DVD:
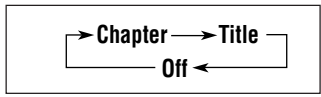
$$\text{Chapter} \longrightarrow \text{Title}$$
$$\text{Off} \longleftarrow$$

• Chapter:	Current (or specified) chapter will be repeated. • C-RPT indicator appears on the display.
• Title:	Current title will be repeated. • T-RPT indicator appears on the display.
• Off:	Repeat Play is canceled.

• For CD/VCD:

$$\text{Track} \longleftrightarrow \text{Off}$$

• Track:	Current (or specified) track will be repeated. • ♪ RPT indicator appears on the display.
• Off:	All the tracks in the disc will be repeated.

• For MP3:

$$\text{Track} \longrightarrow \text{Folder}$$
$$\text{Off} \longleftarrow$$

• Track:	Current (or specified) track will be repeated. • ♪ RPT indicator appears on the display.
• Folder:	All the tracks in the current (or specified) folder will be repeated. • ▣ RPT indicator appears on the display.
• Off:	All the tracks in the disc will be repeated.

To cancel Repeat Play, select "Repeat Off" by pressing number button 2 repeatedly or press number button 4 in step **2**.

Notes:
- *On some DVDs, Repeat Play may be canceled by the disc itself.*
- *On CD, VCD, and MP3 discs, Repeat Play mode cannot be turned off.*
- *Repeat Play mode will be canceled when you start playing back a VCD with the PBC function.*

Random Play

You can play back tracks on a disc (or in a folder) at random.

1 Press MODE (M) to enter the functions mode.
"Mode" appears on the display.

2 Press number button 3, while "Mode" is still on the display.
Each time you press the button, Random Play mode changes as follows:

Ex. While playing a CD

CONTINUED ON THE NEXT PAGE

ENGLISH

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• For CD:

Disc ←——→ Off

• Disc:	All the tracks in the disc will be played at random.
	• ☐ RND indicator appears on the display.

• Off:	Random Play is canceled.

• For MP3:

→ Folder ——→ Disc ─ └─ Off ←─
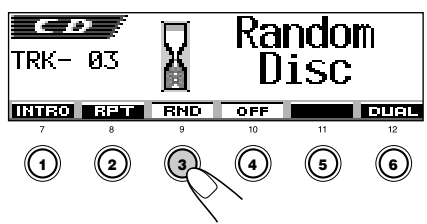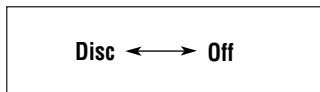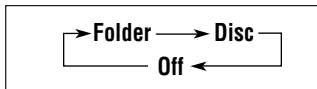
• Folder:	All the tracks in the folder will be played at random, then move to the next folder and so on.
	• ☐ RND indicator appears on the display.

• Disc:	All the tracks in the disc will be played at random.
	• ☐ RND indicator appears on the display.

• Off:	Random Play is canceled.

To cancel Random Play, select "Random Off" by pressing number button 3 repeatedly or press number button 4 in step **2**.

Intro Scan

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

1 Press MODE (M) to enter the functions mode.
"Mode" appears on the display.

2 Press number button 1, while "Mode" is still on the display.
Each time you press the button, Intro Scan play mode changes as follows:
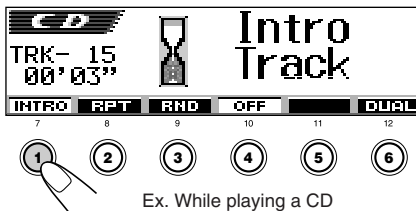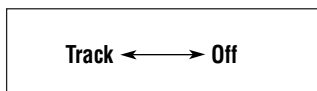
Ex. While playing a CD

• For CD:

Track ←——→ Off

• Track:	The beginnings of all the tracks in the disc will be played.
	• ♪ INT indicator appears on the display.

• Off:	Intro Scan is canceled.

• For MP3:

→ Track ——→ Folder ─ └─ Off ←─
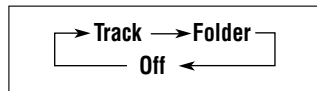
• Track:	The beginnings of all the tracks in the disc will be played.
	• ♪ INT indicator appears on the display.

• Folder:	The beginnings of the first tracks in all folders will be played.
	• ☐ INT indicator appears on the display.

• Off:	Intro Scan is canceled.

To cancel Intro Scan, select "Intro Off" by pressing number button 1 repeatedly or press number button 4 in step **2**.

Prohibiting disc ejection

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

While pressing SRC, press and hold ⏻/I ATT for more than 2 seconds.

"No Eject" flashes on the display for about 5 seconds, and the disc is locked and cannot be ejected.

To cancel the prohibition and unlock the disc
While pressing SRC, press ⏻/I ATT again for more than 2 seconds.
"Eject OK" flashes on the display for about 5 seconds, and the disc is unlocked.

Changing the display pattern

By pressing DISP (D), you can change the information shown on the display.
• If the information cannot be shown at a time, it will scroll on the display.
  Some characters or symbols will not be shown (will be blanked or substituted) on the display.

Each time you press the button, the display patterns change as follows:

While playing a DVD:

Clock time

While playing a VCD:

Clock time

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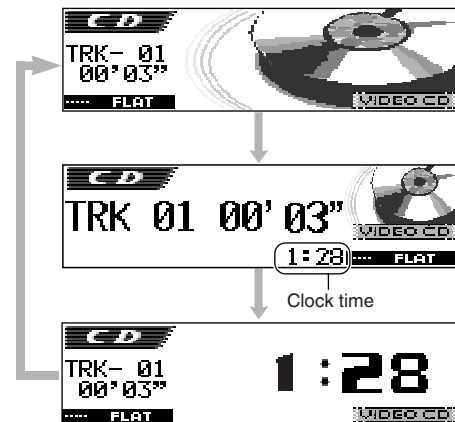
While playing a CD Text (or CD):

Clock time

While playing an MP3 disc:

Clock time
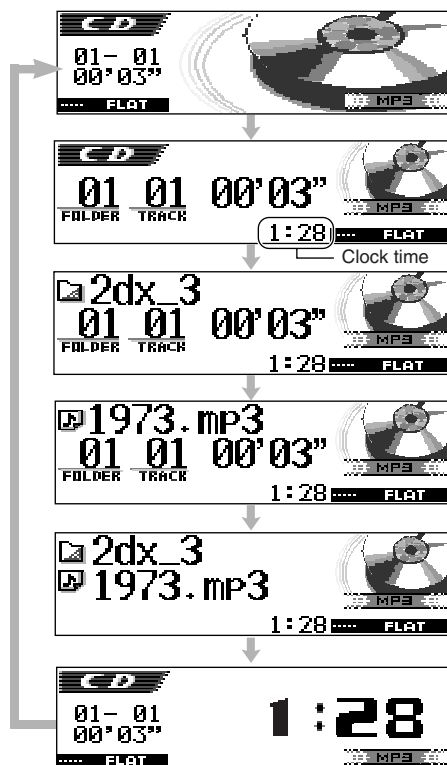
The above diagram shows examples of the display when "Tag" is set to "Off."

Notes:
- *When the disc title/performer is shown, the* ● *(disc) indicator lights up. When the track title is shown, the* ♪ *(track) indicator lights up.*
- *If no name is assigned to the conventional CD, "NO NAME" will appear. To assign a name to a conventional CD, see page 57.*
- *If no disc title/performer or no track title is recorded for the CD Text, "NO NAME" will appear.*

Notes:
- *When the folder name is shown, the* ▨ *(folder) indicator lights up. When the file name is shown, the* ▣ *(file) indicator lights up.*
- *If "Tag" is set to "On" (see page 52), ID3 tag information will appear on the display if the disc has an ID3 tag. The* ▨ *(disc) indicator appears for album name/performer; while the* ♪ *(track) indicator appears for track title.*

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You can store the initial selection for subtitle languages, audio languages, and other settings using the Setup Menu.
• DVD Setup menu can only be displayed while a disc, except MP3 disc, is inserted and selected for the playback source.

The following operations are only possible using the remote controller, and by referring to the monitor screen.
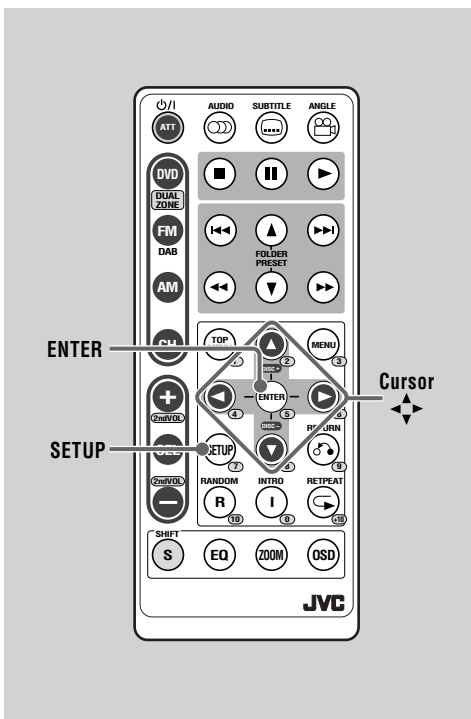
Basic setting procedure

1 Show the Setup menu (LANGUAGE menu) on the monitor.

LANGUAGE	
MENU LANGUAGE	ENGLISH
AUDIO LANGUAGE	ENGLISH
SUBTITLE	OFF
ON SCREEN LANGUAGE	ENGLISH
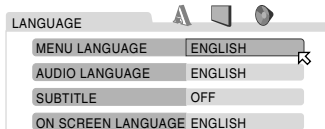
2 Select which Setup menu screen you want to use.

Each time you press the button, the Setup menus change as follows:

LANGUAGE ←→ PICTURE
→ AUDIO ←

AUDIO	
DIGITAL AUDIO OUTPUT	STREAM/PCM
ANALOG DOWN MIX	STEREO
D. RANGE COMPRESSION	ON
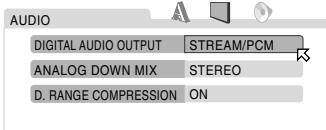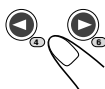
Ex. When selecting the AUDIO screen

3 Move ⌖ (cursor) to an item you want to set up.

AUDIO	
DIGITAL AUDIO OUTPUT	STREAM/PCM
ANALOG DOWN MIX	STEREO
D. RANGE COMPRESSION	ON
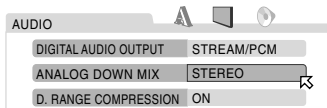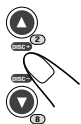
Ex. When selecting ANALOG DOWN MIX

4 Press ENTER.

The pop-up window listing the selectable options appear on the screen.

AUDIO	
DIGITAL AUDIO OUTPUT	STREAM/PCM
ANALOG DOWN MIX	STEREO / DOLBY SURROUND
D. RANGE COMPRESSION	STEREO

5 Move ⬚ (cursor) to select an option.

AUDIO
DIGITAL AUDIO OUTPUT   STREAM/PCM
ANALOG DOWN MIX   DOLBY SURROUND
D. RANGE COMPRESSION   STEREO

6 Confirm and enter your selection.

AUDIO
DIGITAL AUDIO OUTPUT   STREAM/PCM
ANALOG DOWN MIX   DOLBY SURROUND
D. RANGE COMPRESSION   ON
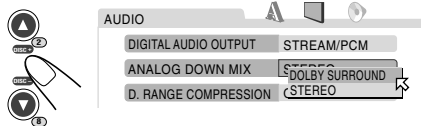
To set other items on the same menu screen

Repeat steps *3* to *6*.

To set other items on other menu screens

Repeat steps *2* to *6*.
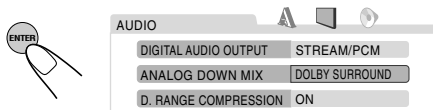
To return to the normal screen

Press SETUP.

LANGUAGE

LANGUAGE
MENU LANGUAGE   ENGLISH
AUDIO LANGUAGE   ENGLISH
SUBTITLE   OFF
ON SCREEN LANGUAGE   ENGLISH

SELECT   USE ▲▼◄► TO SELECT, USE ENTER TO CONFIRM.
ENTER   TO EXIT, PRESS SETUP.
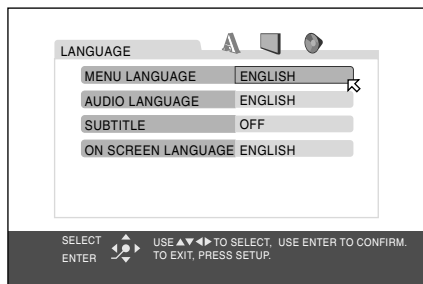
You can select the initial languages for the disc menu, audio, and subtitle.
You can also select the language for the Setup menu and some indications shown on the monitor.

AUDIO

AUDIO
DIGITAL AUDIO OUTPUT   STREAM/PCM
ANALOG DOWN MIX   STEREO
D. RANGE COMPRESSION   ON

SELECT   USE ▲▼◄► TO SELECT, USE ENTER TO CONFIRM.
ENTER   TO EXIT, PRESS SETUP.

You can adjust the output sounds through this unit.

PICTURE

PICTURE
MONITOR TYPE   4:3LB

SELECT   USE ▲▼◄► TO SELECT, USE ENTER TO CONFIRM.
ENTER   TO EXIT, PRESS SETUP.
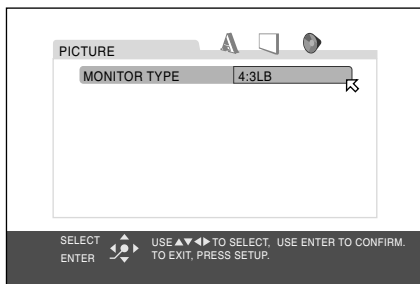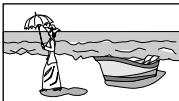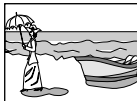
You can select the desired options concerning picture size on the monitor.

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Items		For what and options
LANGUAGE	**MENU LANGUAGE** *1	Select the initial disc menu language.
		ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, and language codes from AA to ZU (see page 67).
	AUDIO LANGUAGE *1	Select the initial audio language.
		ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, and language codes from AA to ZU (see page 67).
	SUBTITLE *1	Select the initial subtitle language.
		OFF (no subtitles), ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, and language codes from AA to ZU (see page 67).
	ON SCREEN LANGUAGE	Select the language for the Setup menu and some indications shown on the monitor.
		ENGLISH, SPANISH, and FRENCH

PICTURE	**MONITOR TYPE**
	
	16:9
	
	4:3 LB
	
	4:3 PS
		Select the monitor type to watch a wide screen picture on your monitor.
		• **16:9 NORMAL** *2
		  Select this when the aspect ratio of your monitor is 16:9 and it does not have the screen size adjustment function.
		• **16:9 AUTO**
		  Select this when the aspect ratio of your monitor is 16:9 and it has the screen size adjustment function.
		• **4:3 LB** (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 PS** (Pan Scan) *3
		  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.

*1 • *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.
*2 *When you select "16:9 NORMAL" for a picture whose aspect ratio is 4:3, the picture slightly changes due to the process for converting the picture width.*
*3 *Even if "4:3 PS" is selected, the screen size may become "4:3 LB" with some DVDs. This depends on how they are recorded.*

Items	For what and options
DIGITAL AUDIO OUTPUT	Select the signal format to be emitted through the DIGITAL OUT (Optical) terminal on the rear. • **PCM ONLY** Select this when connecting an amplifier or a decoder incompatible with Dolby Digital and DTS, 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 and DTS.
ANALOG DOWN MIX	When playing back a multi-channel DVD disc, this setting affects the sounds reproduced through the analog terminals. • **STEREO** Normally select this to enjoy and reproduce conventional 2-channel stereo sound from the original multi-channel sounds. • **DOLBY SURROUND** Select this when you want to enjoy multi-channel surround audio by connecting an amplifier compatible with Dolby Surround to this receiver.
D.RANGE COMPRESSION	You can enjoy a powerful sound at low or middle volume levels while playing a Dolby Digital software. • **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.

The left column spanning these rows is labeled **AUDIO**.

Operations of this section are explained using the buttons on the control panel unless mentioned otherwise.

Adjusting the sound

You can adjust the sound characteristics to your preference.
• "Vol Adj" setting is required for each source except FM. Before starting "Vol Adj," select an appropriate source for which you want to make an adjustment.

1 Select the item you want to adjust.

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

Fad (Fader) → Vol Adj
Bal (Balance) (Volume Adjustment)
Canceled ←

Canceled
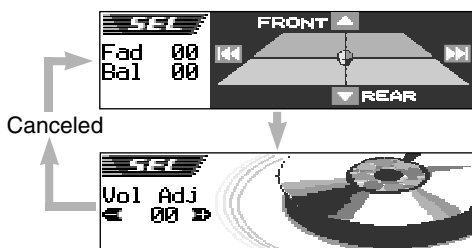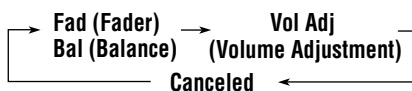
Note:
You can also use the SEL button on the remote controller to call up the fader/balance adjustment screen.

Indication	To do:	Range
Fad*	Adjust the front and rear speaker balance.	R06 (Rear only) | F06 (Front only)
Bal	Adjust the left and right speaker balance.	L06 (Left only) | R06 (Right only)
Vol Adj	Adjust and store the input level of each source.	−12 (min.) | +12 (max.)

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

2 Make adjustments.
• **To adjust fader and balance—Fad, Bal:**
You can make these two adjustments at the same time, by referring to the indication on the display.
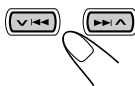
• Press ▲ (up) or ▼ (down) to adjust the fader.
• Press ►►I ∧ or ∨ I◄◄ to adjust the balance.

Note:
You can also use the ►►I ∧ or ∨ I◄◄ buttons and FOLDER PRESET ▲ (up) or FOLDER PRESET ▼ (down) on the remote controller for adjustment.

• **To adjust the input level of each source —Vol Adj:**
This setting is required for each source except FM. Before making an adjustment, select an appropriate source for which you want to make an adjustment.
Once you have made an adjustment, it is memorized, and you will not need to adjust the volume level each time you change the source.

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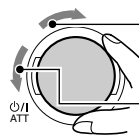
To increase the level

To decrease the level

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Selecting preset sound modes (iEQ: intelligent equalizer)

You can select a preset sound mode (iEQ: intelligent equalizer) suitable to the music genre.
• There is a time limit in doing the following procedure. If the setting is canceled before you finish, start from step **1** again.

Available sound modes:

• **FLAT** (Flat)	• **Country** (Country music)
• **H.ROCK** (Hard Rock)	• **REGGAE** (Reggae)
• **R & B** (Rhythm and Blues)	• **CLASSIC** (Classical music)
• **POP** (Popular music)	• **USER 1**
• **JAZZ** (Jazz music)	• **USER 2**
	• **USER 3**
• **DANCE** (Dance music)	

---

1 Press EQ (equalizer) once.

Last selected sound mode is called up.
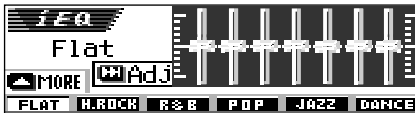
Ex.: If you have selected "Flat" previously

• If you press the button twice, the level meter selection screen appears (see page 10).

2 Press the number button to select the sound mode you want.

• This unit has two sound mode selection screens. To move to the other screen, press ▲ (up) or ▼ (down).
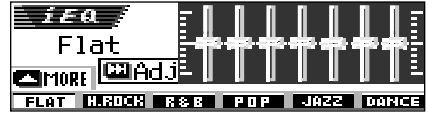
Press ▲ (up) or ▼ (down).
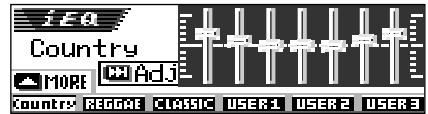
To cancel the preset sound mode, select "FLAT" in step **2**.

To exit from the preset sound mode (iEQ), press EQ (equalizer) repeatedly or wait for about 5 seconds.

Note:
For details about the preset settings of each sound mode, see page 66.

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Storing your own sound adjustments

You can adjust the sound modes to your preference and store your own adjustments in memory (User 1, User 2, and User 3).

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

1 Press EQ (equalizer) once.
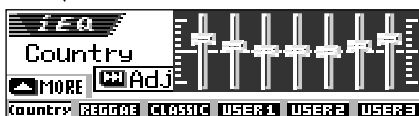
Ex.: When you have selected "Country" previously

• If you press the button twice, the level meter selection screen appears (see page 10).

2 Select the sound mode you want to adjust.
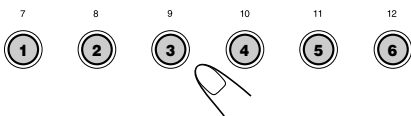
• This unit has two sound mode selection screens. To move to the other screen, press ▲ (up) or ▼ (down).

3 Enter the sound adjustment mode.
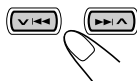
The following sound mode adjustment screen appears on the display.
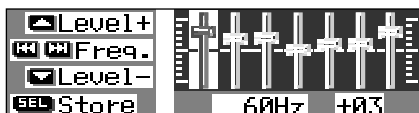
4 Make adjustments as you like.
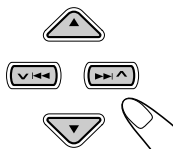
1) Press ►►| ᐱ or ᐯ |◄◄ to select the frequency band—60Hz, 150Hz, 400Hz, 1kHz, 2.4kHz, 6kHz, 12kHz.

2) Press ▲ (up) or ▼ (down) to adjust the level of the selected band within the range of –05 to +05.

3) Repeat steps 1) and 2) to adjust the other frequency bands.

5 Store the adjustment you made.

The confirmation message appears—whether you want to store the adjustment.
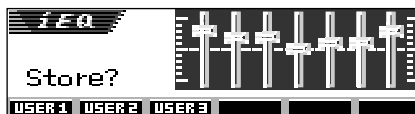
If you want to cancel the adjustments, press EQ (equalizer).

• Adjustment you made remains effective until you select another sound mode.

6 Select one of the user sound modes (User 1, User 2, or User 3) you want to store into.
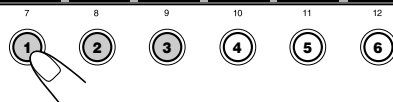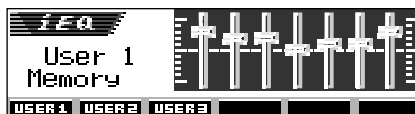
Ex.: When you select "User 1"

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OTHER MAIN FUNCTIONS

ENGLISH

Operations of this section are explained using the buttons on the control panel unless mentioned otherwise.

Changing the general settings (PSM)

You can change the items listed in the table on page 51 by using the PSM (Preferred Setting Mode) control.
• The PSM items are grouped into five categories—MOVIE, CLOCK, DISP (display), AUDIO, and COLOR.

Basic Procedure

Ex. To change "Contrast"

1 **Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.**
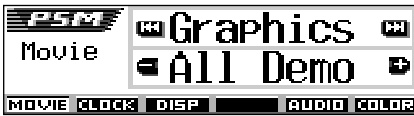
2 **Press number button (in this example, 3) to select one of the PSM categories.**
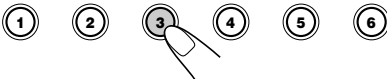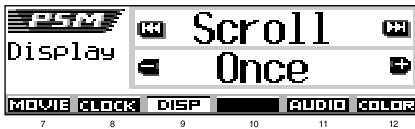
The first-listed item in the selected category appears.

3 **Select the PSM item you want to adjust.**
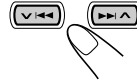
• By pressing ▶▶⏐ ∧ or ∨ ⏐◀◀ repeatedly, you can also move to other categories.

4 **Adjust the PSM item selected.**
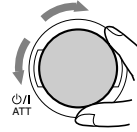
5 **Repeat steps 2 to 4 to adjust the other PSM items if necessary.**

6 **Finish the setting.**

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Preferred Setting Mode (PSM) items

	Indications		Selectable values/items		Factory-preset settings	See page
MOVIE	**Graphics**	Movie demonstration	All Demo ↔ Int Demo ↳ Off ↵		All Demo	9, 52
	KeyIn CFM	Key in confirmation	Long ↔ Short ↳ Off ↵		Long	52
CLOCK	**Clock Hr**	Hour adjustment	1 – 12 (0 – 23)		1 (1:00)	9
	Clock Min	Minute adjustment	00 – 59		00 (1:00)	9
	24H/12H	24 hours or 12 hours	12Hours	24Hours	12Hours	10
DISP (display)	**Scroll**	Scroll mode	Once ↔ Auto ↳ Off ↵		Once	52
	Dimmer	Dimmer mode	Auto ↔ Off ↳ Time Set ↔ On ↵		Auto	54
	From– To[*1]	Dimmer time setting	Any time – Any time		6PM – 7AM	54
	Contrast	Contrast	1 – 10		5	52
	LCD Type	Display type	Positive ↔ Negative ↳ Auto ↵		Auto	52
	Font Type	Font type	1	2	1	52
	Tag	Tag display	Off	On	On	52
AUDIO	**Beep**	Key-touch tone	Off	On	On	53
	Ext Input[*2]	External component	Changer	Line In	Changer	53
	Rear SPK	Rear speaker output	Off	On	On	31
COLOR	**All SRC**	Selected source	See page 55 for details		Every	55
	User	User color selection	Day	Night	Day	56
	R	Red	00 – 11		Day: 07/Night: 05	56
	G	Green	00 – 11		Day: 07/Night: 05	56
	B	Blue	00 – 11		Day: 07/Night: 05	56

*1 Displayed only when "Dimmer" is set to "Time Set."
*2 Displayed only when one of the following sources is selected—FM, AM, and CD.

To set the movie demonstration—Graphics

When shipped from the factory, the movie has been activated.

- All Demo: If no operation is done for about 20 seconds, the movie demonstration starts automatically.
- Int Demo: If no operation is done for about 20 seconds, the movie demonstration and playback source indication appears alternately on the display.
- Off: Cancels the movie demonstration.

To select the source animation on the display—KeyIn CFM

When changing the source, the display shows the source animation. You can select the source animation on the display according to your preference.

- Long: A long source animation appears.
- Short: A short source animation appears.
- Off: Cancels the source animation.

To select the scroll mode—Scroll

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

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

Note:
Even if the scroll mode is set to "Off," you can scroll the display by pressing DISP (D) for more than one second.

To adjust the display contrast level —Contrast

You can adjust the display contrast level among 1 to 10.
Adjust it to make the display indications clear and legible.

To select the display illumination pattern —LCD Type

You can select the display illumination patterns according to your preference.

- Auto: Positive pattern will be selected during the day time (depending on the "Dimmer" setting); on the other hand, negative pattern will be used during the night time (depending on the "Dimmer" setting).
- Positive: Positive (normal) pattern of the display.
- Negative: Negative pattern of the display.

To select the font on the display —Font Type

You can change the font types used on the display. Select either "1" or "2" according to your preference.

To turn the tag display on or off—Tag

An MP3 file can contain file information called "ID3 Tag" where its album name, performer, track title, etc. are recorded.
There are two versions–ID3v1 (ID3 Tag version 1) and ID3v2 (ID3 Tag version 2). Only ID3v1 can be shown.

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

  Note:
  If you change the setting from "Off" to "On" while playing an MP3 file, the tag display will be activated when the next file starts playing.

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

To turn on/off the key-touch tone—Beep

You can deactivate the key-touch tone if you do not want it to beep each time you press a button.

- On: Activates the key-touch tone.
- Off: Deactivates the key-touch tone.

To select the external component to use —Ext Input

You can connect an external component to the CD changer jack on the rear using the Line Input Adapter KS-U57 (not supplied).
To use the external component as the playback source through this unit, you need to select which component—CD changer or external component—to use.

- Changer: To use the CD changer.
- Line In: To use the external component other than CD changer.

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

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

MOVIE	Graphics	
	KeyIn CFM	
CLOCK	Clock Hr	
	Clock Min	
	24H/12H	
DISP (display)	Scroll	
	Dimmer	
	From– To	
	Contrast	
	LCD Type	
	Font Type	
	Tag	
AUDIO	Beep	
	Rear SPK	
	Ext Input	
COLOR	All SRC	
	CD	
	Changer	
	Line in	
	FM	
	AM	
	User Day	R G B
	User Night	R G B

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Selecting the dimmer mode

You can dim the display at night automatically or as you set the timer.
When shipped from the factory, Auto Dimmer mode is activated.

Note:
Auto Dimmer supplied with this unit may not work correctly on some vehicles, particularly on those having a control dial for dimming.
In this case, select any setting other than "Auto."

1 **Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: See pages 51.)**

2 **Press number button 3 to select "DISP"—Display category of the PSM settings.**
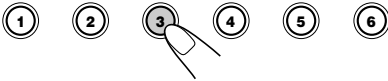
3 **Press ►►I ∧ or ∨ I◄◄ to select "Dimmer."**

4 **Set the dimmer mode to your preference.**
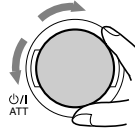
- Auto: Activates Auto Dimmer. When you turn on the car head lights, the display automatically dims.
- Off: Cancels Auto Dimmer.
- On: Always dims the display.
- Time Set: Used to set the timer for the dimmer function.

Note:
Selecting "Auto" or "Time Set" may change the display pattern to the "Negative" or "Positive" pattern if "LCD Type" is set to "Auto."

- If you select "Time Set," go to the following steps to set the timer.
- If you select any setting other than "Time Set," go to step **7** to finish the setting.

5 **Select "From– To" to set the timer for the dimmer mode.**
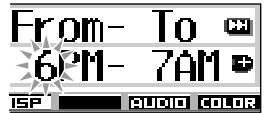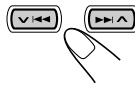
6 **Set the timer.**
1 Turn the control dial to select the start time.
2 Press ►►I ∧ once.
3 Turn the control dial to select the end time.

7 **Finish the setting.**

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Changing the display color

You can set the display color using the PSM control. You can select your favorite color for each source (or for all sources).
You can also create your own colors, and set them as the display color.

Setting the desired color for each source

Once you have set the color for each source (or for all sources), the display illuminates in the selected color when the source is selected.

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: See pages 51.)

2 Press number button 6 to select "COLOR"—Color category of the PSM settings.
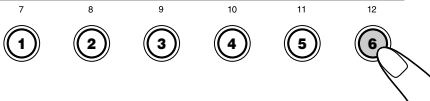
The "All SRC" setting screen appears on the display.

3 Select the source—All SRC, CD, Changer (Line), FM, or AM—that you want to set the display color for.

```
  ┌──→ All SRC*1 ←──→ CD ←──┐
  └──→ AM ←──→ FM ←──→ Changer*2 ──┘
                        (Line)
```
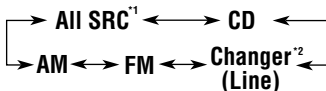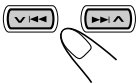
*1 *When you select "All SRC," the same color will be used for all sources.*
*2 *Either component which is selected in the "Ext Input" setting appears.*

4 Select the display color.
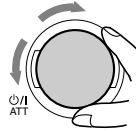
As you turn the control dial, the colors change as follows:

Every*1 ⇄ Aqua ⇄ Sky ⇄ Sea ⇄ Leaves ⇄ Grass ⇄ Red ⇄ Rose ⇄ Amber ⇄ Honey ⇄ Violet ⇄ Cotton ⇄ Snow ⇄ User*2 ⇄ (back to the beginning)

*1 *When you select "Every," the color changes every 2 seconds (changing to every color listed above except "User").*
*2 *When you select "User," the user-edited colors—"Day" and "Night" will be applied. (See page 56.)*

5 Repeat steps 3 and 4 to select the color for each source (except when selecting "All SRC" in step 3).
- If you want to apply different colors to the different sources, select any source other than "All SRC" before finish the setting.

6 Finish the setting.

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Creating your own color—User

You can create your own colors—"Day" and "Night," and select them as the display color for any desired source.

- Day: Can be used as your user color during the day time (while the headlights are turned off), or as set by the timer—"From – To."
- Night: Can be used as your user color during the night time (while the headlights are turned on), or as set by the timer—"From – To."

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display. (PSM: See pages 51.)

2 Press number button 6 to select "COLOR"—Color category of the PSM settings.

The source/color selecting screen appears on the display.

3 Select "User" as a color.

The user color will be applied to the currently selected source (the one shown on the upper portion of the display. In this example "All SRC").

To select which source to apply your user color to, select the target source first by pressing ▲ (up) or ▼ (down), before selecting "User" in this step.

4 Select the user color adjustment screen.
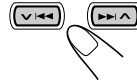
One of the user color adjustment screens appears. "User Day" or "User Night" is shown on the left side of the display.
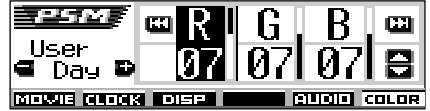
5 Select either "Day" or "Night" to make an adjustment for.
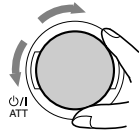
6 Adjust the selected user color.

1) **Press ►►I ∧ or ∨ I◄◄ to select one of three primary colors—"R" (red), "G" (green), and "B" (blue).**

2) **Press ▲ (up) or ▼ (down) to adjust the selected primary color.**
   You can adjust within the range of 00 to 11.

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

7 Repeat steps 5 and 6 to adjust the other user colors—"Day" or "Night."

8 Finish the setting.

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Assigning names to the sources

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

Sources	Maximum number of characters
Station frequencies	Up to 10 characters (up to 30 station frequencies including both FM and AM)
CDs*	Up to 32 characters (up to 40 discs)
External component	Up to 8 characters

* *You can assign a name only to conventional CDs.*

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

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

2 While pressing DISP (D), press and hold SEL (select) for more than 2 seconds.

Ex.: When you select "DISC" as the source

3 Select the character set you want while the first character position is flashing.

Each time you press the button, the character set changes as follows:

A (A – Z: capital) → a (a – z: small)
→ 0 (0 – 9: numbers, and symbols)
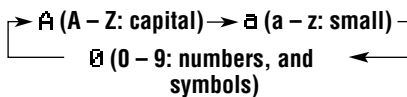
4 Select a character.
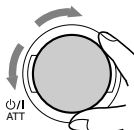
• About the available characters, see page 66.

5 Move the cursor to the next (or previous) character position.
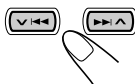
6 Repeat steps 3 to 5 until you finish entering the name.

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

To erase entered characters

Insert spaces using the same procedure described above.

Notes:
• *When you try to assign a name to the 41st disc or to the 31st station frequency, "Name Full" appears and you cannot enter the text entry mode. In this case, delete unwanted names before assignment.*
• *When the CD changer is connected, you can assign names to CDs in the CD changer. These names can also be shown on the display if you insert the CDs in this unit.*

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Detaching the control panel

You can detach the control panel when leaving the car.
When detaching or attaching the control panel, be careful not to damage the connectors on the back of the control panel and on the panel holder.

Detaching the control panel

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

1 **Unlock the control panel.**
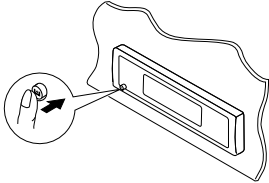
2 **Pull the control panel out of the unit.**
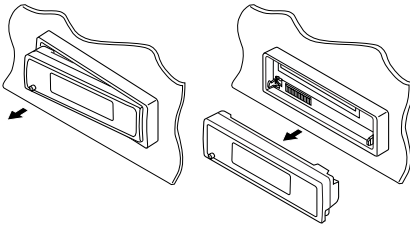
3 **Put the detached control panel into the provided case.**
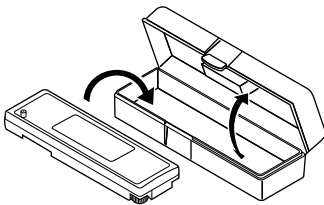
Attaching the control panel

1 **Insert the right side of the control panel into the groove on the panel holder.**
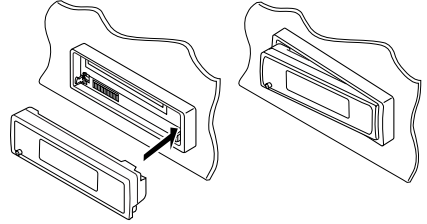
2 **Press the left side of the control panel to fix it to the panel holder.**
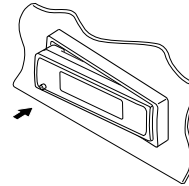
Note on cleaning the connectors:
If you frequently detach the control panel, the connectors will deteriorate.
To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.
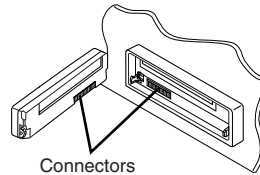
Connectors
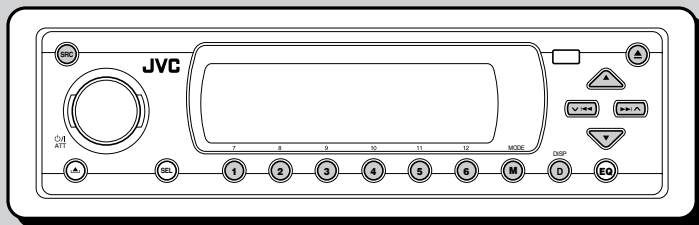
Operations of this section are explained using the buttons on the control panel unless mentioned otherwise.

We recommend that you use the JVC MP3-compatible CD changer with your unit.

By using this CD changer, you can play back your original CD-Rs (Recordable) and CD-RWs (Rewritable) recorded either in audio CD format or in MP3 format.
- You can also connect other CH-X series CD changers (except CH-X99 and CH-X100). However, they are not compatible with MP3 discs, so you cannot play back MP3 discs.
- You cannot use the KD-MK series CD changers with this unit.

Before operating your CD changer:
- Refer also to the Instructions supplied with your CD changer.
- If no discs are in the magazine of the CD changer or the discs are inserted upside down, "No Disc" will flash on the display. If this happens, remove the magazine and position the discs correctly.
- If no magazine is loaded in the CD changer, "No Magazine" flashes on the display. If this happens, insert the magazine in the CD changer.
- If "Reset 1" – "Reset 8" flashes on the display, something is wrong with the connection between this unit and the CD changer. If this happens, check the connection and make sure the cords are connected firmly. Then, press the reset button of the CD changer.

Note:
You cannot play back a DVD and a VCD on the CD changer.

Playing discs

Select the CD changer (CD-CH).

Each time you press the button, the source changes as described on page 8. When you select a source, the power automatically comes on.

Notes:
- *You can also use the CH button on the remote controller.*
- *If you have changed the "Ext Input" setting to "Line In" (see page 53), you cannot select the CD changer.*

When the current disc is an MP3 disc:
Playback starts from the first folder of the current disc once file check is completed.

Selected disc number
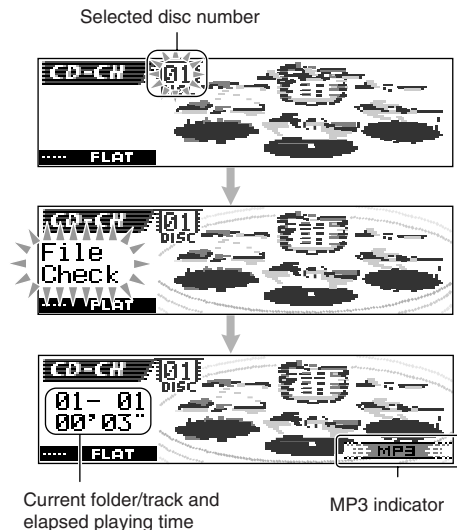
Current folder/track and elapsed playing time

MP3 indicator

• **When the current disc is a CD:**
Playback starts from the first track of the current disc.

Selected disc number

Current track and elapsed playing time

Note:
If you change the source, CD changer play also stops. Next time you select the CD changer as the source, CD changer play starts from where playback has been stopped previously.

To change the display information

While playing back a disc, you can change the disc information shown on the display.

Press DISP (D) repeatedly.
Each time you press the button, the display changes.
• For details, see pages 41 and 42.

To go to a particular disc directly

Press the number button corresponding to the disc number to start its playback (while the CD changer is playing).
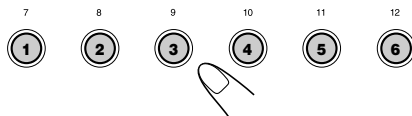
• To select a disc number from 1 – 6:
Press 1 (7) – 6 (12) briefly.
• To select a disc number from 7 – 12:
Press and hold 1 (7) – 6 (12) for more than one second.

Note:
You can also use the DISC +/– buttons on the remote controller to select a disc.

To fast-forward or reverse the track

Press and hold ►►I ∧, during play, to fast-forward the track.

Press and hold ∨ I◄◄, during play, to reverse the track.
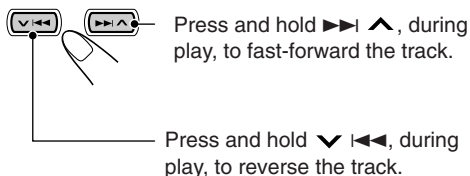
Note:
During this operation on an MP3 disc, you can only hear intermittent sounds. (The elapsed playing time also changes intermittently on the display.)

To go to the next or previous tracks

Press ►►I ∧ briefly during play, to skip ahead to the beginning of the next track. Each time you press the button consecutively, the beginning of the next track is located and played back.
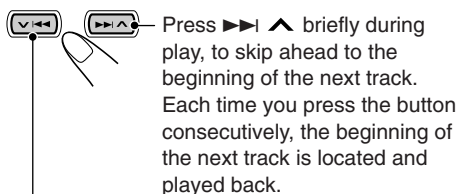
Press ∨ I◄◄ briefly during play, to skip back to the beginning of the current track.
Each time you press the button consecutively, the beginning of the previous track is located and played back.

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This operation is only possible when using JVC MP3-compatible CD changer (CH-X1500).

To go to a track quickly

1 Press MODE (M) to enter the functions mode while playing a disc.

MODE "Mode" appears on the display.

```
CD-CH          Mode  +10▲
01- 01              Track
00'23"              -10▼
INTRO  RPT  RND  OFF      DUAL
```
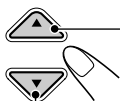
2 Press ▲ (up) or ▼ (down).

To skip 10 tracks* forward to the last track

To skip 10 tracks* backward to the first track

* The first time you press ▲ (up) or ▼ (down) button, the track skips to the nearest higher or lower track with a track number of an even multiple ten (ex. 10th, 20th, 30th).
Then each time you press the button, you can skip 10 tracks (see "How to go to the desired track quickly" on the right column).

Notes:
- *After the last track, the first track will be selected, and vice versa.*
- *If the current playing disc is an MP3 disc, tracks are skipped within the same folder.*

How to go to the desired track quickly

- Ex. 1: To select track number 32 while playing track number 6

MODE

(Three times)   (Twice)

Track 6   ➡ 10 ➡ 20 ➡ 30 ➡ 31 ➡ 32
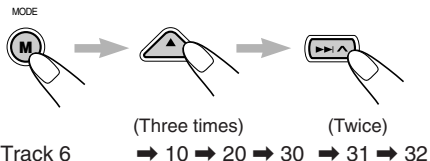
- Ex. 2 : To select track number 8 while playing track number 36

MODE

(Three times)   (Twice)

Track 36   ➡ 30 ➡ 20 ➡ 10 ➡ 9 ➡ 8
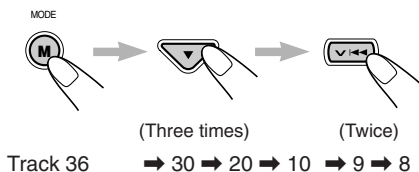
To skip to the next or previous folder (only for MP3 discs)

Press ▲ (up) while playing an MP3 disc, to go to the next folder.
Each time you press the button consecutively, the next folder is located, and the first track in the folder starts playback.

Press ▼ (down) while playing an MP3 disc, to go to the previous folder.
Each time you press the button consecutively, the previous folder is located, and the first track in the folder starts playback.

Note:
If the folder does not contain any MP3 tracks, it is skipped.

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To select a disc using the disc lists

If you forget what discs are loaded in the CD changer, you can show the disc title list and select a disc in the list shown on the display.
- The display can show only six disc names at a time.

1 **While playing a disc, press and hold ▲ (up) or ▼ (down) until a disc name list appears on the display.**


```
CD-CH  🔱DISC 01  🔯Rock M
Disc 01 🔰POP      🔰ABC
       🔰DISC 03  🔰No Disc
  FLAT
```
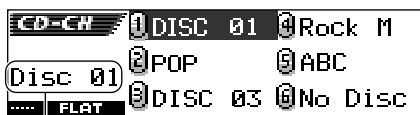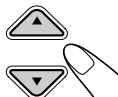
Selected disc number

Note:
If a disc has a disc title (CD Text) or an assigned disc name, it will be shown on the display. However, if the disc has not been played before, its disc number will appear.

2 **Press ▲ (up) or ▼ (down) to show the other disc name list, if necessary.**
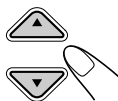
3 **Select the number (1 – 6) for the disc you want to play.**
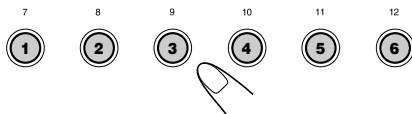
While playing an MP3 disc, you can also show the folder list(s) and track list(s) on the display, then select a folder or track.

1 While playing an MP3 disc, press and hold ▲ (up) or ▼ (down) until a disc name list appears on the display.
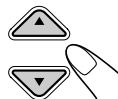
2 Press ►►I ⋀ or ⋁ I◄◄ to show a folder list of the current disc or track list of the current folder.
Each time you press the button, lists on the display changes as follows:
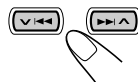
Current folder number

```
CD-CH  🔱DISCO    🔰Is-m
 01-   🔰POPS     🔰Bphex
Folder 🔰K-Shi    🔰SLK
  FLAT
```
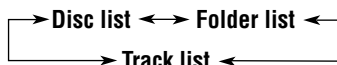
Ex.: When folder list is selected

Current track number

```
CD-CH  🔱L9.mp3   🔰BreakinC
 - 01  🔰MAX150.m🔰A Porta.
Track  🔰urge.mp3🔰9888.mp3
  FLAT
```
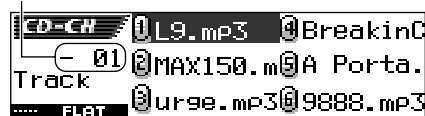
Ex.: When track list is selected

Note:
The display can show only six items at a time. You can show the other items on the next lists by pressing ▲ (up) or ▼ (down).

3 Press the number button for the disc, folder, or track you want to play.
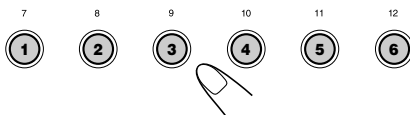
Selecting the playback modes

To play back tracks repeatedly (Repeat Play)

From the remote controller:

REPEAT

Press REPEAT (↺) repeatedly until the Repeat Play mode you want is selected.

On the control panel:

1 Press MODE (M) to enter the functions mode during play. "Mode" appears on the display.

MODE

M

2 Press number button 2 repeatedly while "Mode" is still on the display. Each time you press the button, Repeat Play mode changes as follows:

8

2

For MP3 discs:

Repeat Track → Repeat Folder → Repeat Disc → Repeat Off ↺

For CDs:

Repeat Track → Repeat Disc → Repeat Off ↺
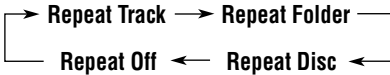
Note:
MP3 indicator also lights up if the current playing disc is an MP3 disc.

Mode	Active indicator	Plays repeatedly
Repeat Track	♪ RPT indicator lights up.	The current (or specified) track.
Repeat Folder*	🗀 RPT indicator lights up.	All tracks of the current (or specified) folder of the current disc.
Repeat Disc	💿 RPT indicator lights up.	All tracks of the current (or specified) disc.

* *"Repeat Folder" is only applicable for MP3 disc.*

To cancel Repeat Play, select "Repeat Off" by pressing number button 2 repeatedly or press number button 4 in step **2**.

To play back tracks at random (Random Play)

From the remote controller:

RANDOM

R

Press RANDOM (R) repeatedly until the Random Play mode you want is selected.

On the control panel:

1 Press MODE (M) to enter the functions mode during play. "Mode" appears on the display.

MODE

M

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2 Press number button 3 repeatedly while "Mode" is still on the display. Each time you press the button, Random Play mode changes as follows:

For MP3 discs:

Random Folder → Random Disc → Random All → Random Off →

For CDs:

Random Disc → Random All → Random Off →
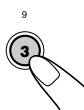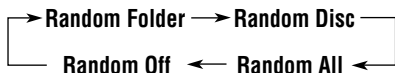
Note:
MP3 indicator also lights up if the current playing disc is an MP3 disc.

Mode	Active indicator	Plays at random
Random Folder*	▭ RND indicator lights up.	All tracks of the current folder, then tracks of the next folder and so on.
Random Disc	▭ RND indicator lights up.	All tracks of the current (or specified) disc.
Random All	ALL RND indicator lights up.	All tracks of all discs inserted in the magazine.

* *"Random Folder" is only applicable for MP3 disc.*

To cancel Random Play, select "Random Off" by pressing number button 3 repeatedly or press number button 4 in step **2**.

To play back only intros (Intro Scan)

From the remote controller:

INTRO
I
Press INTRO (I) repeatedly until the Intro Scan mode you want is selected.

On the control panel:

1 Press MODE (M) to enter the functions mode during play. "Mode" appears on the display.
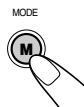
MODE
M

2 Press number button 1 repeatedly while "Mode" is still on the display. Each time you press the button, Intro Scan mode changes as follows:
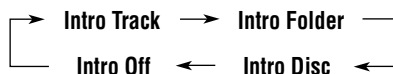
For MP3 discs:

Intro Track → Intro Folder → Intro Disc → Intro Off →

For CDs:

Intro Track → Intro Disc → Intro Off →

Note:
MP3 indicator also lights up if the current playing disc is an MP3 disc.

Mode	Active indicator	Plays the beginnings (15 seconds) of
Intro Track	♪ INT indicator lights up.	All tracks of the current disc.
Intro Folder*	▭ INT indicator lights up.	The first track of every folder of the current disc.
Intro Disc	▭ INT indicator lights up.	The first tracks of the inserted discs.

* *"Intro Folder" is only applicable for MP3 disc.*

To cancel Intro Scan, select "Intro Off" by pressing number button 1 repeatedly or press number button 4 in step **2**.
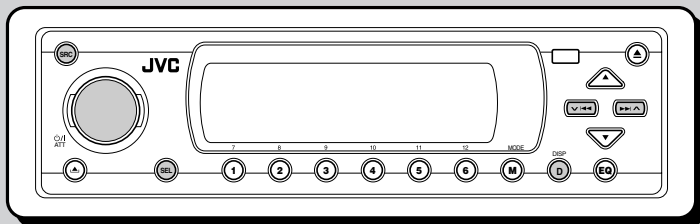
Operations of this section are explained using the buttons on the control panel unless mentioned otherwise.

Playing an external component

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

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

Before operating the external component, select the correct external input correctly by following the procedure below.
• See also "Changing the general settings (PSM)" on page 50.

1 Press and hold SEL (select) for more than 2 seconds so that one of the PSM items appears on the display.
2 Press number button 5 to select "AUDIO"— Audio category of the PSM settings.
3 Press ►►I ∧ or ∨ I◄◄ to select "Ext Input"*.
4 Turn the control dial clockwise to select "Line In."
5 Press SEL (select) to finish the setting.

• For details, see "To select the external component to use—Ext Input" on page 53.
* *Displayed only when one of the following sources is selected—FM, AM, and CD.*

1 Select the external component (LINE IN).

Each time you press the button, the source changes as described on page 8. When you select a source, the power automatically comes on.
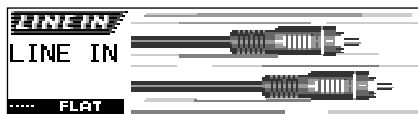
* *Displayed only when one of the following sources is selected—FM, AM, and CD.*

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

3 Adjust the volume.

4 Adjust the sound characteristics you want. (See pages 47 – 49.)

Note:
You can also change the display pattern by pressing DISP (D) repeatedly.

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⁉️ ADDITIONAL INFORMATION

Sound modes (preset frequency level settings)

The list below shows the preset frequency level settings for each sound mode.
• You can adjust the preset sound modes temporarily. However, your temporary adjustments will be reset when you select another sound mode.

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

Available characters

You can use the following characters to assign names to stations, CDs, and external component. (See page 57.)

Capital letters

A	B	C	D	E
F	G	H	I	J
K	L	M	N	O
P	Q	R	S	T
U	V	W	X	Y
Z	space			

Small letters

a	b	c	d	e
f	g	h	i	j
k	l	m	n	o
p	q	r	s	t
u	v	w	x	y
z	space			

Numbers and symbols

0	1	2	3	4
5	6	7	8	9
!	”	#	$	%
&	’	(	)	✳
+	,	—	.	/
:	;	<	=	>
?	@	_	`	space

LANGUAGE CODES

Code	Language
AA	Afar
AB	Abkhazian
AF	Afrikaans
AM	Ameharic
AR	Arabic
AS	Assamese
AY	Aymara
AZ	Azerbaijani
BA	Bashkir
BE	Byelorussian
BG	Bulgarian
BH	Bihari
BI	Bislama
BN	Bengali, Bangla
BO	Tibetan
BR	Breton
CA	Catalan
CO	Corsican
CS	Czech
CY	Welsh
DA	Danish
DZ	Bhutani
EL	Greek
EO	Esperanto
ET	Estonian
EU	Basque
FA	Persian
FI	Finnish
FJ	Fiji
FO	Faroese
FY	Frisian
GA	Irish
GD	Scots Gaelic
GL	Galician
GN	Guarani
GU	Gujarati
HA	Hausa
HI	Hindi
HR	Croatian
HU	Hungarian
HY	Armenian
IA	Interlingua
IE	Interlingue
IK	Inupiak
IN	Indonesian
IS	Icelandic
IW	Hebrew
JI	Yiddish
JW	Javanese

Code	Language
KA	Georgian
KK	Kazakh
KL	Greenlandic
KM	Cambodian
KN	Kannada
KO	Korean (KOR)
KS	Kashmiri
KU	Kurdish
KY	Kirghiz
LA	Latin
LN	Lingala
LO	Laothian
LT	Lithuanian
LV	Latvian, Lettish
MG	Malagasy
MI	Maori
MK	Macedonian
ML	Malayalam
MN	Mongolian
MO	Moldavian
MR	Marathi
MS	Malay (MAY)
MT	Maltese
MY	Burmese
NA	Nauru
NE	Nepali
NL	Dutch
NO	Norwegian
OC	Occitan
OM	(Afan) Oromo
OR	Oriya
PA	Panjabi
PL	Polish
PS	Pashto, Pushto
PT	Portuguese
QU	Quechua
RM	Rhaeto-Romance
RN	Kirundi
RO	Rumanian
RU	Russian
RW	Kinyarwanda
SA	Sanskrit
SD	Sindhi
SG	Sangho
SH	Serbo-Croatian
SI	Singhalese
SK	Slovak
SL	Slovenian
SM	Samoan

Code	Language
SN	Shona
SO	Somali
SQ	Albanian
SR	Serbian
SS	Siswati
ST	Sesotho
SU	Sundanese
SV	Swedish
SW	Swahili
TA	Tamil
TE	Telugu
TG	Tajik
TH	Thai
TI	Tigrinya
TK	Turkmen
TL	Tagalog
TN	Setswana
TO	Tonga
TR	Turkish
TS	Tsonga
TT	Tatar
TW	Twi
UK	Ukrainian
UR	Urdu
UZ	Uzbek
VI	Vietnamese
VO	Volapuk
WO	Wolof
XH	Xhosa
YO	Yoruba
ZU	Zulu

?! GLOSSARY

4:3 Letterbox Screen

This is one method for displaying a wide screen picture on a conventional sized (4:3) TV. While viewing a wide screen picture, the black bars appear on the top and the bottom of the screen.
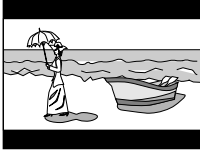
4:3 Pan-Scan Screen

This is one method for displaying a wide screen picture on a conventional sized (4:3) TV. While viewing a wide screen picture, the left and right edges of the pictures will not be shown on the screen.
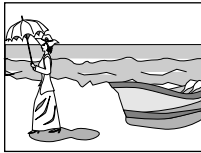
Dolby Digital

This is a digital audio compression technology that was developed by Dolby Laboratories. Dolby Digital encoding method (so-called discrete 5.1 channel digital audio format) records and compresses digitally signals of the left front channel, right front channel, center channel, left rear channel, right rear channel, and LFE channel (total 6 channels, but LFE channel is counted as 0.1 channel, therefore called 5.1 channels) signals digitally. Each channel is completely independent from other channel signals to avoid interference; therefore, you can obtain much better sound quality with stereo and surround effects.
To reproduce these original surround signals, you need to connect an amplifier or a decoder compatible with Dolby Digital.

DTS Digital Surround

This is another discrete 5.1 channel digital audio format, available on CD, LD, and DVD software, developed by Digital Theater Systems, Inc. Compared to Dolby Digital, the audio compression rate is relatively low. This fact allows DTS Digital Surround format to add breadth and depth to the reproduced sounds. As a result, DTS Digital Surround features natural, solid and clear sound.
To reproduce these surround signals, you need to connect an amplifier or a decoder compatible with DTS Digital Surround.

ID3 Tag (MP3)

An MP3 file can contain file information called "ID3 Tag" where its album name, performer, track title, etc. are recorded.
There are two versions–ID3v1 (ID3 Tag version 1) and ID3v2 (ID3 Tag version 2). Only ID3v1 can be shown.

Linear PCM

This is a digital recording format that is used for audio CDs.

Playback Control (VCD)

When a VCD has the PBC (Playback Control) function, you can use menu-driven operations and enjoy high-resolution still pictures.

Sampling Frequency, Quantization Bits

When analog signals are converted into digital signals, they are divided into many points and digitized. This dividing method is called "sampling." The sampling frequency indicates how many points one second is divided into – for example, for CD sound, one second is divided into 44100 points since its sampling frequency is 44.1 kHz. On the other hand, the number of quantization bits indicates the volume size used to memorize each divided point.
The larger this number is, the clearer the sound can be reproduced.

TROUBLESHOOTING

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

	Symptoms	Causes	Remedies
General	• Sound cannot be heard from the speakers.	The volume level is set to the minimum level.	Adjust it to the optimum level.
		Connections are incorrect.	Check the cords and connections.
	• This unit does not work at all.	The built-in microcomputer may have functioned incorrectly due to noise, etc.	Press the reset button on the panel holder after detaching the control panel. (The clock setting and preset stations stored in memory are erased.) (See page 2.)
	• "Panel Connect Error" appears on the display.	The control panel is not attach correctly and firmly.	Remove the control panel, wipe the connectors, then attach it again. (See page 58.)
	• No sound comes out of the 2nd AUDIO OUT plug.	Dual Zone is not activated	Activate Dual Zone.
FM/AM	• SSM (Strong-station Sequential Memory) automatic preset does not work.	Signals are too weak.	Store stations manually.
	• Static noise while listening to the radio.	The antenna is not connected firmly.	Connect the antenna firmly.
	• AM band cannot be selected.	Dual Zone is activated.	Deactivate Dual Zone.
Disc Playback	• Disc cannot be played back.	Disc is inserted upside down.	Insert the disc correctly.
	• CD-R/CD-RW cannot be played back. • Tracks on the CD-R/CD-RW cannot be skipped.	CD-R/CD-RW is not finalized.	• Insert a finalized CD-R/CD-RW. • Finalize the CD-R/CD-RW with the component which you used for recording.
	• Disc cannot be ejected.	Disc is locked.	Unlock the disc. (See page 41.)
	• Disc cannot be recognized.	The CD player may function incorrectly.	While holding SRC, press SEL for more than 2 seconds to eject the disc.

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	Symptoms	Causes	Remedies
Disc Playback	• 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.
	• "No Disc" flashes on the display.	No disc in the loading slot.	Insert a disc into the loading slot.
		Disc is inserted incorrectly.	Insert the disc correctly.
	• No playback picture (DVD, VCD) appears on the monitor.	Parking brake wire is not connected.	Connect the wire (see Installation/Connection Manual).
	• No picture appears on the monitor at all.	The video cord is not connected correctly.	Connect the video cord correctly
		An incorrect input has been selected on the TV or monitor.	Select a correct input on the TV or monitor.
	• The left and right edges of the picture are missing on the screen.	"4:3 PS" is selected when viewing on a conventional TV (aspect ratio 4:3).	Select "4:3 LB." (See page 45.)
	• Disc can be neither played back nor ejected.	The built-in microcomputer may function incorrectly due to noise, etc.	Turn off the power, then turn it on again.
	• MP3 disc is skipped or cannot be played back.	MP3 files do not have the extension code—mp3 in their file names.	Add the extension code —mp3 to their file names.
		MP3 files are not recorded in a format compliant with ISO 9660 Level 1, ISO 9660 Level 2, Romeo, or Joliet.	Change the disc. (Record MP3 files using a compliant application.)
	• Noise is generated while playing an MP3 disc.	The file played back is not an MP3 file (although it has the extension code—mp3).	Skip to another file or change the disc. (Do not add the extension code—mp3 to non-MP3 files.)
	• MP3 files cannot be played back in the order you have intended them to play.	Playback order is determined when the files are recorded.	————————
	• Elapsed playing time is not correct for an MP3 disc.	This sometimes occurs during play. This is caused by how the files are recorded on the disc.	————————

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Symptoms	Causes	Remedies	
• "No Disc" flashes on the display.	No disc is in the magazine.	Insert discs into the magazine.	CD Changer
	Discs are inserted upside down.	Insert discs correctly.	
	Discs are unplayable.	Insert playable discs.	
	The current disc does not contain any MP3 files.	Insert a disc that contains MP3 files.	
• "No Magazine" flashes on the display.	No magazine is loaded in the CD changer.	Insert the magazine.	
• "Reset 8" flashes on the display.	This unit is not connected to the CD changer correctly.	Connect this unit and the CD changer correctly and press the reset button on the CD changer.	
• "Reset 1" – "Reset 7" flashes on the display.	———————	Press the reset button on the CD changer.	
• The CD changer does not work at all.	The built-in microcomputer may function incorrectly due to noise, etc.	Press the reset button on the panel holder after detaching the control panel. (The clock setting and preset stations stored in memory are erased.) (See page 2.)	

Output signals through the DIGITAL OUT terminal

They differ depending on the "DIGITAL AUDIO OUT" setting on the Setup Menu.

DIGITAL AUDIO OUT / Playback Disc	Output Signals		
	PCM ONLY	**DOLBY DIGITAL/PCM**	**STREAM/PCM**
DVD 48 kHz, 16/20/24 bit Linear PCM	48 kHz, 16 bit Linear PCM *		
96 kHz, Linear PCM	None		
with **Dolby Digital**	48 kHz, 16 bit Linear PCM	Dolby Digital bitstream	
with **DTS**	48 kHz, 16 bit Linear PCM		DTS bitstream
Video CD, Audio CD	44.1 kHz, 16 bit Linear PCM		
Audio CD with **DTS**	44.1 kHz, 16 bit Linear PCM		DTS bitstream
MP3	Linear PCM		

* *While playing some DVDs, digital signals may be emitted at 20 bits or 24 bits (at their original bit rate) through the DIGITAL OUT terminal if the discs are not copy-protected.*

Handling discs

This unit has been designed to reproduce DVD-Videos, VCDs, CDs, CD-Rs (Recordable), CD-RWs (Rewritable), and CD Texts.
• **This unit is also compatible with MP3 discs.**

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.

To play new discs

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

Moisture condensation

Moisture may condense on the lens inside the CD player in the following cases:
• After starting the heater in the car.
• If it becomes very humid inside the car.
Should this occur, the CD player may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

When playing a CD-R or CD-RW

Before playing back CD-Rs or CD-RWs, read their instructions or cautions carefully.
• Use only "finalized" CD-Rs or CD-RWs.
• Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, and for the following reasons:
  – Discs are dirty or scratched.
  – Moisture condensation on the lens inside the unit.
  – The pickup lens inside the unit is dirty.
• CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
• CD-Rs or CD-RWs are susceptible to high temperatures or high humidity, so do not leave them inside your car.
• Do not use the following CD-Rs or CD-RWs:
  – Discs with stickers, labels, or a protective seal stuck to the surface.
  – Discs on which labels can be directly printed by an ink jet printer.
Using these discs under high temperatures or high humidity may cause malfunctions or damage to discs. For example,
  – Stickers or labels may shrink and warp a disc.
  – Stickers or labels may peel off so discs cannot be ejected.
  – Print on discs may get sticky.
Read instructions or cautions about labels and printable discs carefully.

CAUTIONS:
• *Do not insert any disc of unusual shape—like a heart or flower; otherwise, it will cause a malfunction.*
• *Do not expose discs to direct sunlight or any heat source or place them in a place subject to high temperature and humidity. Do not leave them in a car.*
• *Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.*

Warped disc

Sticker / Sticker residue

Disc / Stick-on label

ENGLISH

AUDIO AMPLIFIER SECTION

Maximum Power Output:
    Front: 50 W per channel
    Rear: 50 W per channel
Continuous Power Output (RMS):
    Front: 19 W per channel into 4 Ω, 40 Hz
              to 20 000 Hz at no more than
              0.8% total harmonic distortion.
    Rear: 19 W per channel into 4 Ω, 40 Hz
              to 20 000 Hz at no more than
              0.8% total harmonic distortion.
Load Impedance: 4 Ω (4 Ω to 8 Ω allowance)
Equalizer Control Range:
    Frequencies: 60 Hz, 150 Hz, 400 Hz,
                 1 kHz, 2.4 kHz, 6 kHz, 12 kHz
    Level: ±10 dB
Signal-to-Noise Ratio: 70 dB
Audio output level:
  Analog (2nd AUDIO OUT):   6 mW (at 16 Ω)
  Digital (DIGITAL OUT: Optical):
     Signal wave length: 660 nm
     Output level: −21 dBm to −15 dBm
  Line-Out Level/Impedance:
     2.0 V/20 kΩ load (full scale)
     Output Impedance: 1 kΩ
Color system: NTSC
Video output (composite): 1 Vp-p/75 Ω

TUNER SECTION

Frequency Range:
    FM: 87.5 MHz to 107.9 MHz
    AM: 530 kHz to 1 710 kHz

[FM Tuner]
Usable Sensitivity: 11.3 dBf (1.0 μV/75 Ω)
50 dB Quieting Sensitivity: 16.3 dBf (1.8 μV/75 Ω)
Alternate Channel Selectivity (400 kHz):   65 dB
Frequency Response: 40 Hz to 15 000 Hz
Stereo Separation: 35 dB
Capture Ratio: 1.5 dB

[AM Tuner]
Sensitivity: 20 μV
Selectivity: 35 dB

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: 16 Hz to 22 000 Hz
    DVD, fs=96 kHz: 16 Hz to 44 000 Hz
    VCD, CD, MP3:   16 Hz to 20 000 Hz
Dynamic Range: 96 dB
Signal-to-Noise Ratio: 98 dB
Wow and Flutter: Less than measurable limit
MP3 recording format: MPEG 1/2 Audio Layer 3
Max. Bit rate: 320 Kbps

GENERAL

Power Requirement:
    Operating Voltage:
        DC 14.4 V (11 V to 16 V allowance)
Grounding System: Negative ground
Allowable Operating Temperature:
        0°C to +40°C (32°F to 104°F)
Dimensions (W × H × D):
    Installation Size (approx.):
        182 mm × 52 mm × 158 mm
        (7-3/16" x 2-1/16" x 6-1/4")
    Panel Size (approx.):
        188 mm × 58 mm × 12 mm
        (7-7/16" x 2-5/16" x 1/2")
    Mass (approx.):
        1.7 kg (3.8 lbs) (excluding accessories)

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

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

About mistracking:
*Mistracking may result from driving on extremely
rough roads. This does not damage the unit and
the disc, but will be annoying.*
*We recommend that you stop disc play while
driving on such rough roads.*

JVC
MOBILE ENTERTAINMENT

http://www.jvcmobile.com

Visit us on-line for
Technical Support & Customer Satisfaction Survey.

US RESIDENTS ONLY

Having TROUBLE with operation?
Please reset your unit

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

USA ONLY
Call 1-800-252-5722

http://www.jvc.com
We can help you!

JVC
VICTOR COMPANY OF JAPAN, LIMITED

JVC

KD-DV5000
Installation/Connection Manual
Manual de instalación/conexión
Manuel d'installation/raccordement

LVT1053-002A
[J]
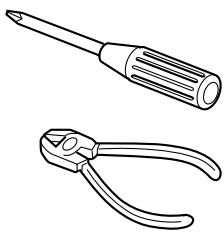
0303MNMMDWJEIN
EN, SP, FR

ENGLISH

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

ESPAÑOL

- Esta unidad está diseñada para funcionar con 12 V de CC, con sistemas eléctricos de masa NEGATIVA.

FRANÇAIS

- Cet appareil est conçu pour fonctionner sur des sources de courant continu de 12 V à masse NEGATIVE.

WARNINGS

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

ADVERTENCIAS

- NO instale la unidad en los siguientes sitios:
  - Donde pueda obstruir la maniobra del volante de dirección y del cambio de engranajes, con el consiguiente riesgo de accidentes de tráfico.
  - Donde pueda obstruir el funcionamiento de dispositivos de seguridad tales como bolsas de aire, pues podría resultar en un accidente fatal.
  - Donde pueda obstruir la visibilidad.
- NO OPERE la unidad mientras está maniobrando el volante de dirección, pues podría producirse un accidente de tráfico.
- El conductor no debe mirar el monitor mientras conduce.
  Si el conductor mira el monitor mientras conduce puede descuidarse y causar un accidente.
- El conductor no deberá ponerse los auriculares mientras conduce. Es muy peligroso no escuchar los ruidos exteriores durante la conducción.
- Si necesita operar el receptor mientras conduce, asegúrese de mirar atentamente hacia adelante para no provocar un accidente de tráfico.
- Si no está aplicado el freno de estacionamiento, aparecerá en el monitor "DRIVER MUST NOT WATCH THE MONITOR WHILE DRIVING." (El conductor no debe mirar el monitor mientras conduce), y no se mostrará la imagen de reproducción.
  - Esta advertencia aparece únicamente cuando el cable del freno de estacionamiento se encuentra conectado al sistema del freno de estacionamiento incorporado al automóvil (refiérase al Manual de instalación/conexión).

AVERTISSEMENTS

- N'INSTALLEZ aucun élément dans les endroits suivants;
  - où il peut gêner l'accès au volant ou au levier de vitesse car cela peut entraîner un accident de la circulation.
  - où il peut gêner la manipulation de dispositifs de sécurité tels que les airbags car cela peut entraîner un accident fatal.
  - où il peut gêner la visibilité.
- NE COMMANDEZ pas l'appareil lors de la manipulation du volant car cela peut entraîner un accident de la circulation.
- Le conducteur ne doit pas regarder le moniteur lorsqu'il conduit. Regarder le moniteur lorsqu'on est au volant réduit considérablement la vigilance du conducteur et multiplie les risques d'accident.
- Le conducteur ne doit pas utiliser un casque d'écoute quand il est au volant. Il est en effet dangereux de bloquer les sons de la circulation routière pendant la conduite d'un véhicule.
- Si vous avez besoin de commander l'autoradio pendant que vous conduisez, continuez de regarder droit devant vous ou vous risquez de causer un accident de la circulation.
- Si le frein de stationnement n'est pas mis, "DRIVER MUST NOT WATCH THE MONITOR WHILE DRIVING." (Le conducteur ne doit pas regarder le moniteur lorsqu'il conduit.) apparaît sur le moniteur et l'image de lecture n'apparaît pas.
  - Cet avertissement apparaît uniquement quand le fil du frein de stationnement est connecté au système de frein de stationnement intégré à la voiturestationnement intégré à la voiture

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Parts list for installation and connection
The following parts are provided with this unit.
After checking them, please set them correctly.

Lista de piezas para instalación y conexión
Con esta unidad se suministran las siguientes piezas.
Después de inspeccionarlas, colóquelas correctamente.

Liste des pièces pour l'installation et raccordement
Les pièces suivantes sont fournies avec cet appareil.
Après vérification, veuillez les placer correctement.

Hard case/Control panel
Estuche duro/Panel de control
Etui de transport/Panneau de commande
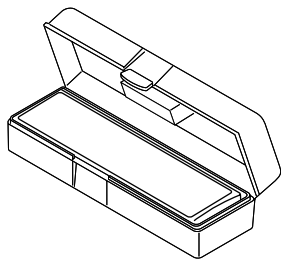
Sleeve
Cubierta
Manchon
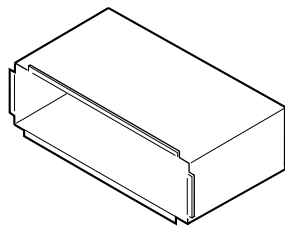
Trim plate
Placa de guarnición
Plaque d'assemblage
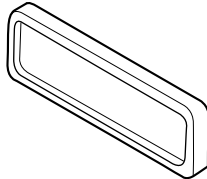
Remote controller
Control remoto
Télécommande
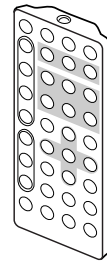
Crimp connector
Sujeción
Cosse à sertir
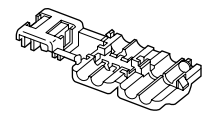
Battery
Pila
Pile

CR2025

Power cord
Cordón de alimentación
Cordon d'alimentation
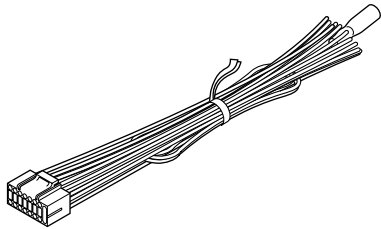
Handles
Manijas
Poignées
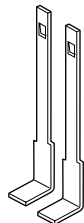
Lock nut—M5
Tuerca de seguridad—M5
Ecrou d'arrêt—M5

Washer—ø5
Arandela—ø5
Rondelle—ø5

Mounting bolt—M5 x 20 mm (M5 x 13/16")
Perno de montaje—M5 x 20 mm (M5 x 13/16 pulgada)
Boulon de montage—M5 x 20 mm (M5 x 13/16 pouces)

Rubber cushion
Cojín de goma
Amortisseur en caoutchouc

TROUBLESHOOTING

- **The fuse blows.**
- * Are the red and black leads connected correctly?
- **Power cannot be turned on.**
- * Is the yellow lead connected?
- **No sound from the speakers.**
- * Is the speaker output lead short-circuited?
- **Sound is distorted.**
- * Is the speaker output lead grounded?
- * Are the "–" terminals of L and R speakers grounded in common?
- **Unit becomes hot.**
- * Is the speaker output lead grounded?
- * Are the "–" terminals of L and R speakers grounded in common?

LOCALIZACION DE AVERIAS

- **El fusible se quema.**
- * ¿Están los conductores rojo y negro correctamente conectados?
- **No es posible conectar la alimentación.**
- * ¿Está el cable amarillo conectado?
- **No sale sonido de los altavoces.**
- * ¿Está el cable de salida del altavoz cortocircuitado?
- **El sonido presenta distorsión.**
- * ¿Está el cable de salida del altavoz conectado a masa?
- * ¿Están los terminales "–" de los altavoces L y R conectados a una masa común?
- **La unidad se calienta.**
- * ¿Está el cable de salida del altavoz conectado a masa?
- * ¿Están los terminales "–" de los altavoces L y R conectados a una masa común?

EN CAS DE DIFFICULTES

- **Le fusible saute.**
- * Les fils rouge et noir sont-ils raccordés correctement?
- **L'appareil ne peut pas être mise sous tension.**
- * Le fil jaune est-elle raccordée?
- **Pas de son des enceintes.**
- * Le fil de sortie de d'enceinte est-il court-circuité?
- **Le son est déformé.**
- * Le fil de sortie de d'enceinte est-il à la masse?
- * Les bornes "–" des enceintes gauche et droit sont-elles mises ensemble à la masse?
- **L'appareil devient chaud.**
- * Le fil de sortie de d'enceinte est-il à la masse?
- * Les bornes "–" des enceintes gauche et droit sont-elles mises ensemble à la masse?

INSTALLATION (IN-DASH MOUNTING)

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

1 **Before mounting:** Press ⏏ (Control Panel Release button) to detach the control panel if already attached.
* When shipped from the factory, the control panel is packed in the hard case.

2 Remove the trim plate.

3 Remove the sleeve after disengaging the sleeve locks.
① Stand the unit.
Note: When you stand the unit, be careful not to damage the fuse on the rear.
② Insert the 2 handles between the unit and the sleeve, as illustrated, to disengage the sleeve locks.
③ Remove the sleeve.
Note: Be sure to keep the handles for future use after installing the unit.

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

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

6 Do the required electrical connections.

7 Slide the unit into the sleeve.

8 Attach the trim plate.

9 Attach the control panel.

NSTALACION (MONTAJE EN EL TABLERO DE INSTRUMENTOS)

- 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.

1 **Antes de instalar:** Pulse ⏏ (botón de liberación del panel de control) para desenganchar el panel de control, si ya está fijado.
* El panel de control se expide de fábrica dentro del estuche duro.

2 Retire la placa de guarnición.

3 Retire la cubierta después de desenganchar los retenes de la cubierta.
① Ponga la unidad vertical.
Nota: Al poner la unidad vertical, tenga cuidado de no dañar el fusible provisto en la parte posterior.
② Inserte las dos manijas entre la unidad y la cubierta tal como en la ilustración y desenganche los retenes de la cubierta.
③ Retire la cubierta.
Nota: Después de instalar la unidad, asegúrese de guardar las manijas para uso futuro.

4 Instale la cubierta en el tablero de instrumentos.
* Después de que la cubierta esté correctamente instalada en el tablero de instrumentos, doble las lengüetas correspondientes para sostener la cubierta firmemente en su lugar, tal como se muestra.

5 Fije el perno de montaje en la parte trasera del cuerpo de la unidad y coloque el cojín de goma sobre el extremo del perno.

6 Realice las conexiones eléctricas requeridas.

7 Deslice la unidad dentro de la cubierta hasta que quede trabada.

8 Coloque la placa de guarnición.

9 Coloque el panel de control.

INSTALLATION (MONTAGE DANS LE TABLEAU DE BORD)

- 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.

1 **Avant le montage:** Appuyer sur ⏏ (dèblocage du panneau de commande) pour èventeullement détacher le panneau de commande.
* Lorsque ce panneau de commande sort d'usine, il est rangé dans un étui de transport.

2 Retirer la plaque d'assemblage.

3 Libérer les verrous du manchon et retirer le manchon.
① Poser l'appareil à la verticale.
Remarque: Lorsque vous mettez l'appareil à la verticale, faire attention de ne pas endommager le fusible situé sur l'arrière.
② Insérer les 2 poignées entre l'appareil et le manchon comme indiqué pour désengagé les verrous de manchon.
③ Retirer le manchon.
Remarque: S'assurer de garder les poignées pour une utilisation ultérieur, après l"installation de l'appareil.

4 Installer le manchon dans le tableau de bord.
* Après installation correcte du manchon dans le tableau de bord, plier les bonnes pattes pour maintenir fermement le manchon en place, comme montré.

5 Monter le boulon de montage sur l'arrière du corps de l'appareil puis passer l'amortisseur en caoutchouc sur l'extrémité du boulon.

6 Réalisez les connexions électriques.

7 Faites glisser l'appareil dans le manchon jusqu'à ce qu'il soit verrouillé.

8 Attachez la plaque d'ajustage.

9 Remonter le panneau de commande.

1 Control panel / Panel de control / *Panneau de commande*

2 Trim plate / Placa de guarnición / *Plaque d'assemblage*

Dashboard / Tablero de instrumentos / *Tableau de bord*

Rubber cushion / Cojín de goma / *Amortisseur en caoutchouc*

3 Handle / Manija / *Poignée*
Slot / Ranura / *Fente*
Fuse / Fusible / *Fusible*
Lock Plate / Placa de bloqueo / *Plaque de verrouillage*
Sleeve / Cubierta / *Manchon*

Sleeve / Cubierta / *Manchon*

4 **5** 184 mm (7-1/4") 53 mm (2-1/8")

Mounting bolt / Perno de montaje / *Boulon de montage*

7 **8** **9**

Control panel / Panel de control / *Panneau de commande*

Trim plate / Placa de guarnición / *Plaque d'assemblage*

4 *

6 See "ELECTRICAL CONNECTIONS." Véase "CONEXIONES ELECTRICAS". *Référez-vous "RACCORDEMENTS ELECTRIQUES"* .

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

Twist the core wires when connecting.
Retuerza 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.
Soudez les âmes des fils pour les raccorder entre eux de façon sûre.

CAUTION / PRECAUCION / PRECAUTION:
- **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.**
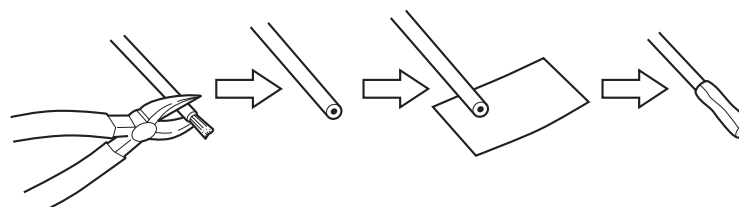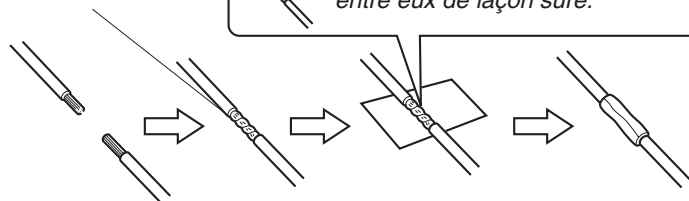
Washer
Arandela
Rondelle

Fire wall
Tabique a prueba de incendios
Cloison

Stay (option)
Soporte (opción)
Hauban (en option)

Dashboard
Tablero de instrumentos
Tableau de bord

Lock nut
Tuerca de seguridad
Ecrou d'arrêt

Screw (option)
Tornillo (opción)
Vis (en option)

Mounting bolt
Perno de montaje
Boulon de montage

Sleeve
Cubierta
Manchon

Less than 30˚
Menos de 30˚
Moins de 30˚

Install the unit at an angle of less than 30˚.
Instale la unidad a un ángulo de menos de 30˚.
Installez l'appareil avec un angle de moins de 30˚.
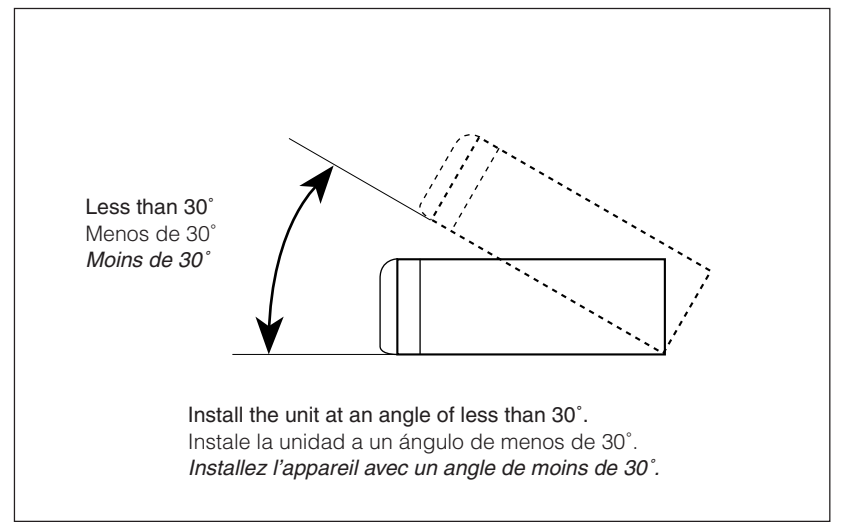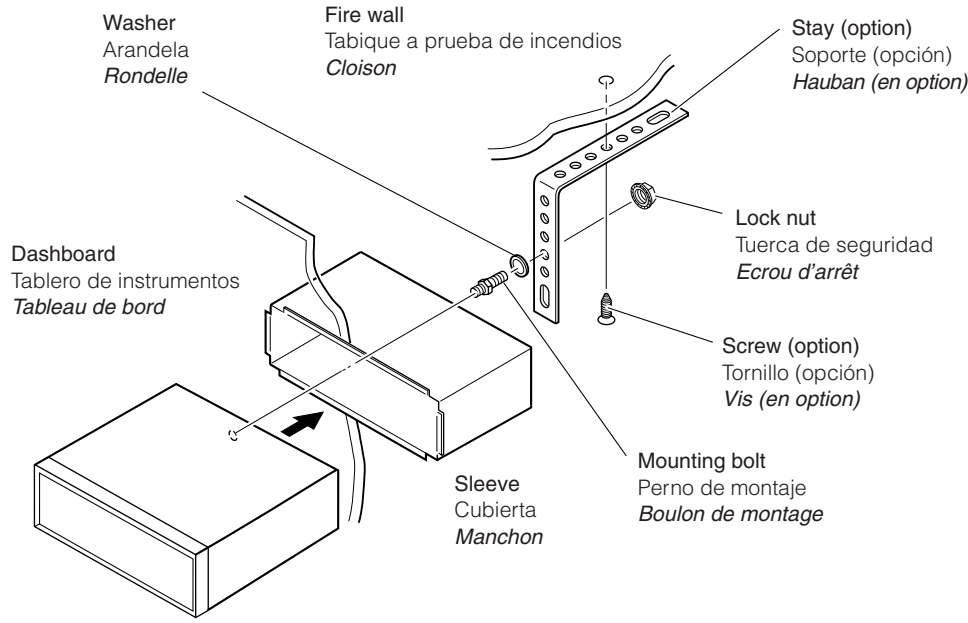
• When installing the unit without using the sleeve

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

• Instalación de la unidad sin utilizar la cubierta

En un Toyota por ejemplo, primero extraiga la radio del automóvil y luego instale la unidad en su lugar.

• Lors de l'installation de l'appareil sans utiliser de manchon

Par exemple dans une Toyota, retirer d'abord l'autoradio et installer l'appareil à la place.
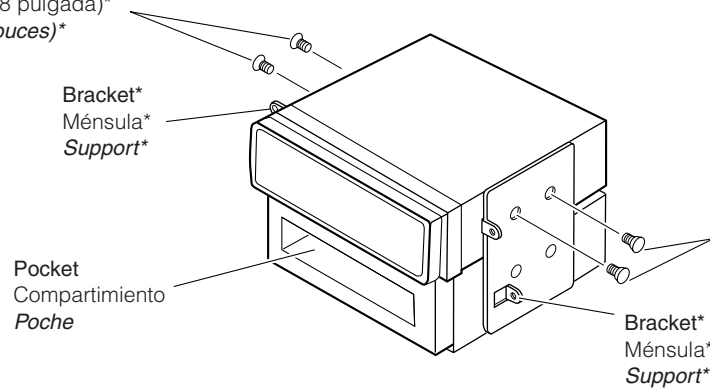
* Not included with this unit.
* No suministrado con esta unidad.
* *Non fourni avec cet appareil.*

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

Bracket*
Ménsula*
Support*

Pocket
Compartimiento
Poche

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

Bracket*
Ménsula*
Support*

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

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

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

Removing the unit

• Before removing the unit, release the rear section.

1 Remove the control panel.

2 Remove the trim plate.

3 Insert the 2 handles into the slots, as shown. Then, while gently pulling the handles away from each other, slide out the unit. **(Be sure to keep the handles after installing it.)**

Extracción de la unidad

• Antes de extraer la unidad, libere la sección trasera.

1 Extraiga el panel de control.

2 Retire la placa de guarnición.

3 Inserte las 2 manijas entre las ranuras, como se muestra. Luego, separe shavemente las manijas y extraiga la unidad. **(Asegúrese de conservar las manijas después de instalarlo.)**

Retrait de l'appareil

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

1 *Retirer le panneau de commande.*

2 *Retirer la plaque d'assemblage.*

3 *Introduire les deux poignées dans les fentes, comme montré. Puis, tout en tirant doucement les poignées écartées, faire glisser l'appareil pour le sortir.* **(S'assurer de conserver les poignées après l'installation de l'appareil.)**

1
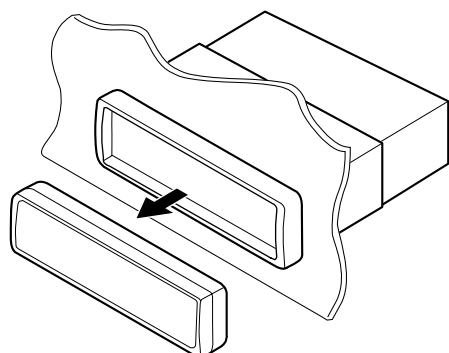
2

3

Control panel
Panel de control
Panneau de commande
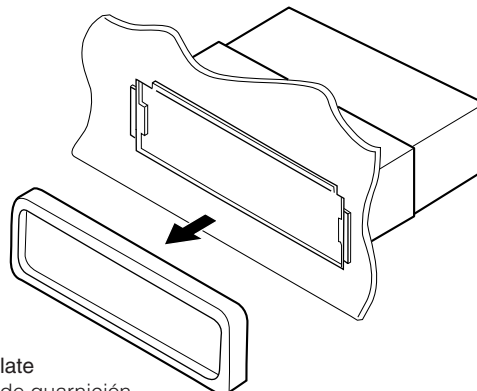
Trim plate
Placa de guarnición
Plaque d'assemblage
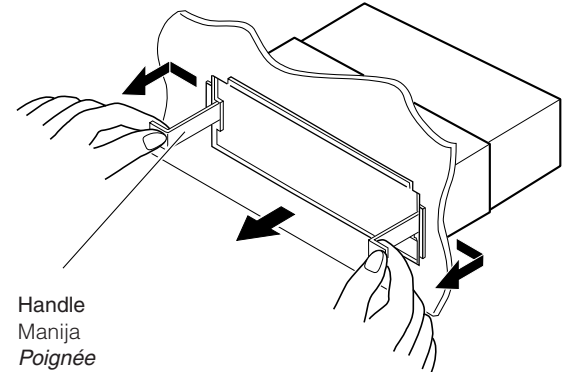
Handle
Manija
Poignée

ELECTRICAL CONNECTIONS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit. 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 only on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC car audio dealer.
- If noise is a problem...
  This unit incorporates a noise filter in the power circuit. However, with some vehicles, clicking or other unwanted noise may occur. If this happens, connect the unit's **rear ground terminal** (see connection diagram) to the car's chassis using shorter and thicker cords, such as copper braiding or gauge wire. If noise still persists, consult your JVC car audio dealer.
- Maximum input of the speakers should be more than 50 W at the rear and 50 W at the front, with an impedance of **4 Ω to 8 Ω**.
- **Be sure to ground this unit to the car's chassis.**
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.

Heat sink
Sumidero térmico
Dissipateur de chaleur
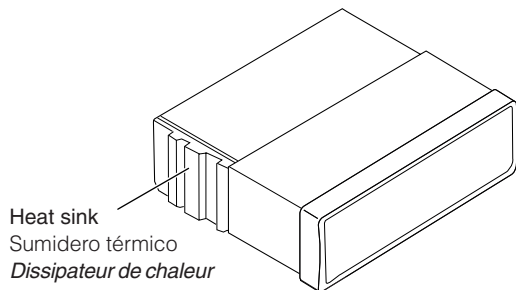
CONEXIONES ELECTRICAS

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

Nota:
Esta unidad está diseñada para funcionar con **12 V de CC, con sistemas eléctricos de masa NEGATIVA** solamente. 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.

- Reemplace el fusible por uno con la corriente especificada. Si el fusible se quemase frecuentemente consulte con su concesionario de JVC de equipos de audio para automóviles.
- Si el ruido fuese un problema...
  Esta unidad tiene un filtro de ruido en el circuito de alimentación. Sin embargo, en algunos vehículos, pueden producirse chasquidos u otros ruidos indeseados. En tal caso conecte el **terminal de tierra posterior** (véase diagrama de conexión) del receptor al chasis del automóvil, utilizando cordones más gruesos y cortos tales como alambre de cobre trenzado o de grueso calibre. Si el ruido persiste, consulte a su concesionario de JVC de equipos de audio para automóvil.
- La entrada máxima de los altavoces debe ser de más de 50 W en el trasero y 50 W en la frontal, con una impedancia de **4 Ω a 8 Ω**.
- **Asegúrese de conectar esta unidad a tierra en el chasis del automóvil.**
- El sumidero térmico estará muy caliente después del uso. Asegúrese de no tocarlo al desmontar esta unidad.

RACCORDEMENTS ELECTRIQUES

Pour éviter tout court-circuit, nous vous recommandons de débrancher la borne négative de la batterie et d'effectuer tous les raccordements électriques avant d'installer l'appareil. 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** seulement. 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.*
- *Si le bruit est un problème...*
  *Cet appareil incorpore un filtre de bruit dans le circuit d'alimentation. Cependant, avec certains véhicules, quelques claquements ou autres bruits non désirés risquent de se produire. Si cela arrive, raccorder la **borne arrière de masse** de l'appareil au châssis de la voiture (voir le schéma de raccordement) en utilisant des cordons les plus gros et les plus courts possibles telle qu'une barre de cuivre ou une tresse. Si le bruit persiste, consulter votre revendeur d'autoradios JVC.*
- *La puissance admissible des enceintes devrait supérieure à 50 W à l'arrière et à 50 W l'avant, avec une impédance de **4 Ω à 8 Ω**.*
- *S'assurer de raccorder la mise à la masse de cet appareil au châssis de la voiture.*
- *Le dissipateur de chaleur devient très chaud après usage. Faire attention de ne pas le toucher en retirant cet appareil.*

PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- Connect the black lead (ground), yellow lead (to car battery, constant 12 V), and red lead (to an accessory terminal) correctly.
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.
  - **If the speaker wiring in your car is as illustrated in Fig. 1 and Fig. 2 below,** DO NOT connect the unit using that original speaker wiring. If you do, the unit will be seriously damaged. Redo the speaker wiring so that you can connect the unit to the speakers as illustrated in Fig. 3.
  - **If the speaker wiring in your car is as illustrated in Fig. 3,** you can connect the unit using the original speaker wiring in your car.
  - If you are not sure of the speaker wiring of your car, consult your car dealer.
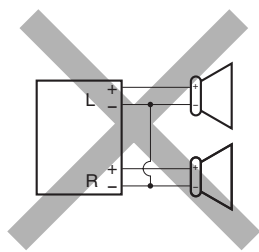
PRECAUCIONES sobre las conexiones de la fuente de alimentación y de los altavoces:

- **NO conecte los conductores de altavoz del cable de alimentación a la batería de automóvil, pues podrían producirse graves daños en la unidad.**
- Conecte correctamente el conductor negro (a tierra), el conductor amarillo (a la batería del automóvil, 12 V constantes), y el conductor rojo (a un terminal de accesorio).
- ANTES de conectar a los altavoces los conductores de altavoz del cable de alimentación, verifique el conexionado de altavoz de su automóvil.
  - **Si el conexionado de altavoz de su automóvil es como se indica en las Fig. 1 y Fig. 2 de abajo,** NO conecte la unidad utilizando ese conexionado de altavoz original. Si lo hace, se producirán daños graves en la unidad.
    Vuelva a efectuar el conexionado de altavoz de manera que pueda conectar la unidad a los altavoces de la manera indicada en la Fig. 3.
  - **Si el conexionado de altavoz de su automóvil es como se indica en la Fig. 3,** podrá conectar la unidad utilizando el conexionado de altavoz original de su automóvil.
  - Si tiene dudas sobre el conexionado de altavoz de su automóvil, consulte con su concesionario.
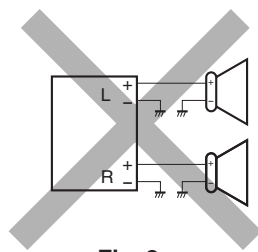
PRECAUTIONS sur l'alimentation et la connexion des enceintes:

- **NE CONNECTEZ PAS les fils d'enceintes du cordon d'alimentation à la batterie; sinon, l'appareil serait sérieusement endommagé.**
- *Connectez correctement le fil noir (a la masse), le fil jaune (a la batterie de la voiture,12 V constant) et le fil rouge (à la prise accessoire).*
- *AVANT de connecter les fils d'enceintes du cordon d'alimentation aux enceintes, vérifiez le câblage des enceintes de votre voiture.*
  - *Si le câblage des enceintes de votre voiture est réalisé comme montré sur la Fig. 1 ou Fig. 2 ci-dessous, NE CONNECTEZ PAS l'appareil en utilisant ce câblage original d'enceintes. Si vous le faites, l'appareil sera sérieusement endommagé.*
    Recommencez le câblage des enceintes de façon que vous puissiez connecter l'appareil aux enceintes comme montré sur la Fig. 3.
  - *Si le câblage des enceintes de votre voiture est comme montré sur la Fig. 3, vous pouvez connecter l'appareil en utilisant ce câblage original d'enceintes pour votre voiture.*
  - *Si vous n'êtes pas sûrs du câblage d'enceintes de votre voiture, consulter le concessionnaire de votre voiture.*

Fig. 1

Fig. 2
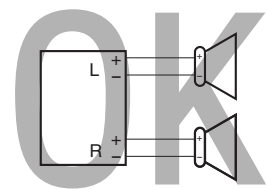
Fig. 3

About sounds reproduced through the rear terminals

- **Through the analog terminals (Speaker out/LINE OUT/2nd AUDIO OUT):**
  2-channel signal is emitted.
  When playing a multi-channel encoded disc, multi-channel signals are downmixed. (AUDIO—ANALOG DOWN MIX: see page 46 of the Instructions.)

- **Through DIGITAL OUT (optical):**
  Digital signals (Linear PCM, Dolby Digital*, DTS**) are emitted through this terminal. (For more details, see page 71 of the Instructions.)
  To reproduce multi-channel sounds such as Dolby Digital and DTS, connect an amplifier or a decoder compatible with these multi-channel sources to this terminal, and set "DIGITAL AUDIO OUTPUT" to the correct value. (See page 46 of the Instructions.)

* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
** "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

Acerca de los sonidos reproducidos a través de los terminales traseros

- **A través de los terminales analógicos (salida de altavoz/ LINE OUT/2nd AUDIO OUT):**
  Se emite la señal de 2 canales.
  Cuando se reproduce un disco codificado multicanal, las señales multicanal se mezclan. (AUDIO—MEZCLA ANAÓGICA: véase la página 46 de las Instrucciones).

- **A través de DIGITAL OUT (óptico):**
  Las señales digitales (Linear PCM, Dolby Digital*, DTS**) se emiten a través de este terminal. (Para mayor información, véase la página 71 de las Instrucciones).
  Para reproducir sonidos multicanal, como Dolby Digital y DTS, conectar a este terminal un amplificador o decodificador compatible con estas fuentes multicanal, y ajustar "SALIDA DE AUDIO DIGITAL" al valor correcto. (Véase la página 46 de las Instrucciones).

* Fabricado bajo licencia de Dolby Laboratories. "Dolby" y el símbolo con una doble D son marcas registradas de Dolby Laboratories.
** "DTS" y "DTS Digital Out" son marcas comerciales de Digital Theater Systems, Inc.

À propos des sons reproduits par les prises arrière

- **Par les prises analogiques (sortie des enceintes/LINE OUT/ 2nd AUDIO OUT):**
  Un signal à deux canaux est émis.
  Lors de la lecture d'un disque codé multicanaux, les signaux multicanaux sont sous-mixés. (AUDIO—MIX DEMUL. ANALOGIQUE: voir page 46 du manuel d'instructions).

- **Par la prise DIGITAL OUT (optique):**
  Les signaux numériques (Linear PCM, Dolby Digital, DTS**) sont émis par cette prise. (Pour plus de détails, référez-vous à la page 71 du manuel d'instructions).*
 *Pour reproduire des sons multicanaux, tels que le Dolby Digital et le DTS, connectez un amplificateur ou un décodeur compatible avec ces sources multicanaux à cette prise, et réglez "SORTIE AUDIO NUM." sur la valeur correcte. (Voir page 46 du manuel d'instructions).*

* *Fabriqué sous licence de Dolby Laboratories. "Dolby" et le symbole double D sont des marques de commerce de Dolby Laboratories.*
** *"DTS" et "DTS Digital Out" sont des marques de commerce de Digital Theater Systems, Inc.*

A Typical Connections / Conexiones típicas / Raccordements typiques

Before connecting: Check the wiring in the vehicle carefully not to fail in connecting this unit. Incorrect connection may cause a 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 para no cometer errores al conectar esta unidad. Una conexión incorrecta podría producir daños graves en la unidad. Los cordones del cable de alimentación y los del conector procedentes de la carrocería del automóvil podrían ser de diferentes en color.

Avant de commencer la connexion: *vérifiez attentivement le câblage du véhicule pour ne pas connecter incorrectement cet appareil. Une connexion incorrecte peut endommager sérieusement l'appareil.*
Le fil du cordon d'alimentation et ceux des connecteurs du châssis de la voiture peuvent être différents en couleur.

1 Connect the colored leads of the power cord to the car battery, speakers and automatic antenna (if any) in the following sequence.

① Black: ground
② Yellow: to car battery (constant 12 V)
③ Red: to an accessory terminal
④ Blue with white stripe: to remote lead of other equipment or automatic antenna if any (200 mA max.)
⑤ Light green: To parking brake, metallic body or chassis of the car
⑥ Orange with white stripe: to car light control switch
⑦ Others: to speakers

2 Connect the antenna cord.

3 Finally connect the wiring harness to the unit.

1 Conecte los conductores de color del cable de alimentación a la batería del automóvil, altavoces y antena automática (si la hubiere) 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 Azul con rayas blancas: al conductor remoto de otro equipo o de la antena automática, si hubiere (máx. 200 mA)
⑤ Verde claro: al freno de estacionamiento, la carrocería metálica o el chasis del automóvil
⑥ Naranja con raya blanca: Al interruptor de control de las luces del automóvil
⑦ Otros: a los altavoces

2 Conecte el cable de antena.

3 Por último, conecte a la unidad el cableado preformado.

1 *Connectez les fils de couleur du cordon d'alimentation à la batterie de la voiture, aux enceintes et à l'antenne automatique (s'il y en a une) dans l'ordre suivant.*

① *Noir: a la masse*
② *Jaune: a la batterie de la voiture (12 V constant)*
③ *Rouge: à la prise accessoire*
④ *Bleu à bande blanche: au fil de télécommande de l'autre appareil ou à l'antenne automatique s'il y en a une (200 mA max.)*
⑤ *Vert clair: Au frein de stationnement, corps métallique ou châssis du véhicule*
⑥ *Orange à bande blanche: à l'interrupteur d'éclairage de la voiture*
⑦ *Autres fils: aux enceintes*

2 *Connectez le cordon d'antenne.*

3 *Finalement, connectez le faisceau de fils à l'appareil.*

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

2

To antenna
A la antena
A l'antenne

Antenna terminal
Terminal de la antena
Borne de l'antenne

Rear ground terminal
Terminal de tierra posterior
Borne arrière de masse

JVC CD changer jack
Jack del cambiador de CD de JVC
Prise de changeur CD JVC

VIDEO OUT
(see diagram **B**)
(véase diagrama **B**)
*(voir le diagramme **B**)*

2nd AUDIO OUT
(see diagram **B**)
(véase diagrama **B**)
*(voir le diagramme **B**)*

LINE OUT (FRONT)
LINE OUT (REAR)
DIGITAL OUT
(see diagram **B**)
(véase diagrama **B**)
*(voir le diagramme **B**)*

15 A fuse
Fusible de 15 A
Fusible 15 A

JVC CD changer
Cambiador de CD JVC
Changeur de CD JVC

We recommend you to connect the JVC MP3-compatible CD changer. You can also connect other CH-X series CD changers (except CH-X99 and CH-X100).
• You cannot use the KD-MK series CD changers with this unit.
You can also use an external component such as a portable MD player by connecting the Line Input Adapter KS-U57 (not supplied). (See diagram **B**.)
Se recomienda conectar el cambiador de CD de JVC compatible con MP3. También se pueden conectar otros cambiadores de CD de la serie CH-X (excepto CH-X99 y CH-X100).
• Con esta unidad no se podrán utilizar cambiadores de CD de la serie KD-MK.
Conectando el adaptador de entrada de línea KS-U57 (no suministrado), también podrá usar un componente exterior, tal como un reproductor de MD. (Véase diagrama **B**.)
Nous vous recommandons de connecter le changeur de CD compatible MP3 JVC. Vous pouvez aussi connecter d'autres changeurs de CD de la série CH-X (sauf le CH-X99 et le CH-X100).
• Vous ne pouvez pas utiliser les changeurs de CD de la série KD-MK avec cet appareil.
*Vous pouvez aussi utiliser un appareil extérieur tel qu'un lecteur de MD en connectant l'adaptateur d'entrée de ligne KS-U57 (non fourni). (Voir le diagramme **B**.)*

3

*¹ Not supplied with this unit.
*¹ No suministrado con esta unidad.
*¹ *Non fourni avec cet appareil.*

Black/Negro/*Noir*

① To metallic body or chassis of the car
A un cuerpo metálico o chasis del automóvil
Au corps métallique ou châssis de la voiture

Ignition switch
Interruptor de encendido
Interrupteur d'allumage

Yellow*²
Amarillo*²
*Jaune *²*

② To a live terminal in the fuse block connecting to the car battery (bypassing the ignition switch)
A un terminal activo del bloque de fusibles conectado a la batería del automóvil (desviando el interruptor de encendido)
À une borne sous tension du porte-fusible connectée à la batterie de la voiture (en dérivant l'interrupteur d'allumage)

Red/Rojo/*Rouge*

③ To an accessory terminal in the fuse block
A un terminal accesorio del bloque de fusibles
À la prise accessoire du porte-fusible

Blue with white stripe
Azul con rayas blancas
Bleu à bande blanche

④ To remote lead of other equipment or automatic antenna if any
Al conductor remoto de otro equipo o de la antena automática, si hubiere
Au fil de télécommande de l'autre appareil ou à l'antenne automatique s'il y en a une

Fuse block
Bloque de fusibles
Porte-fusible

*²: Before checking the operation of this unit prior to installation, this lead must be connected, otherwise power cannot be turned on.
*²: Antes de comprobar el funcionamiento de esta unidad previa a la instalación, es necesario conectar este cable, de lo contrario no se podrá conectar la alimentación.
*²: *Pour vérifier le fonctionnement de cet appareil avant installation, ce fil doit être raccordé, sinon l'appareil ne peut pas être mis sous tension.*

To car light control switch
Al interruptor de control de las luces del automóvil
À l'interrupteur d'éclairage de la voiture

Orange with white stripe
Amarillocon rayas blancas
Orange à bande blanche

⑥ (ILLUMINATION)

Light green
Verde claro
Vert clair

⑤ To parking brake, metallic body or chassis of the car
Al freno de estacionamiento, carrocería metálica o chasis del automóvil
Au frein de stationnement, corps métallique ou châssis du véhicule

(PARKING BRAKE)

⑦

White with black stripe
Blanco con rayas negras (–) (+)
Blanc à bande noire

White
Blanco
Blanc

Gray with black stripe
Gris con rayas negras (–) (+)
Gris à bande noire

Gray
Gris
Gris

Green with black stripe
Verde con rayas negras (–) (+)
Vert à bande noire

Green
Verde
Vert

Purple with black stripe
Púrpura con rayas negras (–) (+)
Violet à bande noire

Purple
Púrpura
Violet

Left speaker (front)
Altavoz izquierdo (frontal)
Enceinte gauche (avant)

Right speaker (front)
Altavoz derecho (frontal)
Enceinte droit (avant)

Left speaker (rear)
Altavoz izquierdo (trasero)
Enceinte gauche (arrière)

Right speaker (rear)
Altavoz derecho (trasero)
Enceinte droit (arrière)

Connecting the parking brake wire / Conexión del cable del freno de estacionamiento / Connexion du cordon de frein de stationnement

When installing the monitor in a location where it can be seen by the driver
Al instalar el monitor en un lugar donde pueda ser visto por el conductor
Lorsqu'on installe le moniteur à un emplacement où il peut être vu du conducteur
Connect the parking brake wire to the parking brake system built in the car.
Conecte el cable del freno de estacionamiento al sistema de freno de estacionamiento del automóvil.
Connectez le fil de frein de stationnement au système de frein de stationnement.
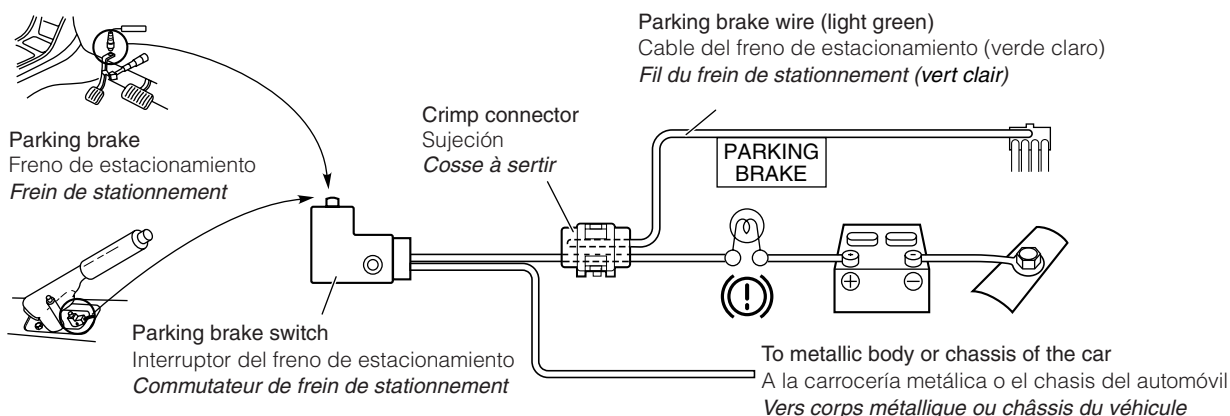
When installing the monitor in a location where it cannot be seen by the driver
Al instalar el monitor en un lugar donde no pueda ser visto por el conductor
Lorsqu'on installe le moniteur à un emplacement où il ne peut pas être vu du conducteur
Connect the parking brake wire to metallic body or chassis of the car.
Conecte el cable del freno de estacionamiento a la carrocería metálica o al chasis del automóvil.
Connectez le fil du frein de stationnement au corps métallique ou châssis du véhicule.

Parking brake wire (light green)
Cable del freno de estacionamiento (verde claro)
Fil du frein de stationnement (vert clair)

Parking brake
Freno de estacionamiento
Frein de stationnement

Crimp connector
Sujeción
Cosse à sertir

PARKING BRAKE

Parking brake switch
Interruptor del freno de estacionamiento
Commutateur de frein de stationnement

To metallic body or chassis of the car
A la carrocería metálica o el chasis del automóvil
Vers corps métallique ou châssis du véhicule

*³

PARKING BRAKE

Parking brake wire (light green)
Cable del freno de estacionamiento (verde claro)
Cordon du frein de stationnement (vert clair)

*³ Not included with this unit.
*³ No suministrado con esta unidad.
*³ *Non fourni avec cet appareil.*

How to connect the crimp connector / Cómo usar el conector de sujeción / Comment utiliser la cosse à sertir

Wire connecting the battery and the parking brake switch.
Conecte la batería y el interruptor del freno de estacionamiento.
Fil connectant la batterie et l'interrupteur de frein de stationnement.
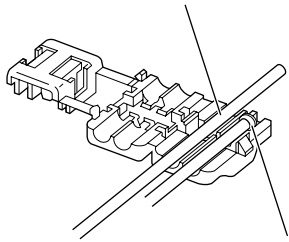
Attach the parking brake wire to this point.
Conecte el cable del freno de estacionamiento a este punto.
Attachez le fil du frein de stationnement ici.
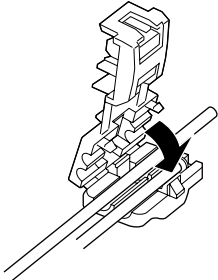
Contact the metallic part of the crimp to the wires inside.
Conecte la parte metálica de la sujeción a los cables de dentro.
Mettez en contact la partie métallique de la cosse à sertir et des fils intérieurs.
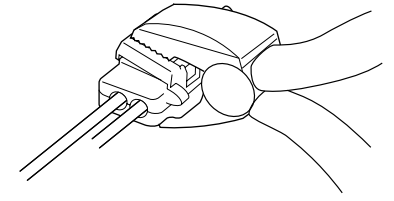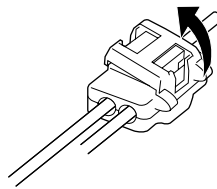
Pinch the crimp firmly.
Apriete la sujeción con firmeza.
Pincez la cosse à sertir fermement.

B **Connections Adding Other Equipment / Conexiones para añadir otros equipos / Raccordement pour ajouter d'autres appareils**

You can connect an amplifier and other equipment to upgrade your car stereo system.
• Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
• For amplifier:
– Connect this unit's line-out terminals to the amplifier's line-in terminals.
– Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.

Usted podrá conectar un amplificador y otros equipos para mejorar el sistema estéreo de su automóvil.
• Conecte el conductor remoto (azul con rayas blancas) al conductor remoto del otro equipo para poderlo controlar a través de esta unidad.
• Para el amplificador:
– Conecte los terminales de salida de línea de esta unidad a los terminales de entrada de línea del amplificador.
– Desconecte los altavoces de esta unidad y conéctelos al amplificador. Deje los conductores de los altavoces de esta unidad sin usar.

Vous pouvez connecter un amplificateur ou autre appareil pour améliorer votre système autoradio.
• *Connectez le fil de commande à distance (bleu à bande blanche) au fil de commande à distance de l'autre appareil de façon qu'il puisse être commandé via cet appareil.*
• *Pour l'amplificateur:*
– *Raccorder les fiches de sortie ligne de cet appareil aux fiches d'entrée ligne de l'amplificateur.*
– *Déconnectez les enceintes de cet appareil et connectez-les à l'amplificateur. Laissez les fils d'enceintes de cet appareil inutilisés.*

Required connections for DVD playback / Conexiones requeridas para reproducción de DVD / Connexions requises pour la lecture de DVD

Headphones (not supplied) *4
Auriculares (no suministrado) *4
*Casque d'écoute (non fourni) *4*

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/vídéo ou décodeur compatible avec les sources numériques multicanaux

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

When using JVC's KV-MR9000 and KS-HP1K, connect using a conversion cable of this type (not supplied).
Al usar el KV-MR9000 y KS-HP1K de JVC, conectar usando un cable de conversión de este tipo (no suministrado).
Lors de l'utilisation du KV-MR9000 et du KS-HP1K de JVC, connectez en utilisant un câble de conversion de ce type (non fourni).

KV-MR9000
Wide color monitor (not supplied)
Monitor color de pantalla ancha (no suministrado)
Moniteur couleur à écran large (non fourni)

KS-HP1K
Cordless headphones (not supplied) *4
Auriculares inalámbricos (no suministrado) *4
*Casque d'écoute sans fil (non fourni) *4*

Video cord (not supplied)
Cordón de video (no suministrado)
Cordon vidéo (non fourni)

Stereo mini plug
Miniclavija estéreo
Mini fiche stéréo

RCA Pin plugs
Clavijas RCA
Fiches cinch

2nd AUDIO OUT

VIDEO OUT

KD-DV5000

DIGITAL OUT
See "About sounds reproduced through the rear terminals."
Colsulte también "Acerca de los sonidos reproducidos a través de los terminales traseros".
Référez-vous "À propos des sons reproduits par les prises arrière".

*4 To listen to disc playback sound while in Dual Zone operations (see page 30 of Instructions.)
*4 Para escuchar el sonido de reproducción de disco mientras se está en operaciones Dual Zone (véase la página 30 de las instrucciones).
*4 *Pour écouter le son de lecture des disque lors de l'utilisation du mode Dual Zone (voir page 30 du manuel d'instructions).*

Amplifier / Amplificador / Amplificateur

Rear speakers
Altavoces traseros
Enceintes arrière

Remote lead
Cable remoto
Fil d'alimentation à distance

Y-connector (not supplied with this unit)
Conector en Y (no suministrado con esta unidad)
*Connecteur Y (non fourni avec cet appareil)*

JVC Amplifier
Amplificador de JVC
Amplificateur JVC

Signal cord (not supplied with this unit)
Cable de señal (no suministrado con esta unidad)
Cordon de signal (non fourni avec cet appareil)

Remote lead (Blue with white stripe)
Cable remoto (Azul con rayas blancas)
Fil d'alimentation à distance (Bleu à bande blanche)

To automatic antenna if any
A la antena automática, si la hubiere
Vers l'antenne automatique, s'il y en a une

Front speakers
Altavoces delanteros
Enceintes avant

KD-DV5000

JVC Amplifier
Amplificador de JVC
Amplificateur JVC

Front speakers
Altavoces delanteros
Enceintes avant

*5 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place not coated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.
*5 Fije firmemente el cable de tierra a la carrocería metálica o al chasis—a un lugar no cubierto con pintura (si está cubierto con pintura, quítela antes de fijar el cable). De lo contrario, se podrían producir daños en la unidad.
*5 *Attachez solidement le fil de mise à la masse au châssis métallique de la voiture—à un endroit qui n'est pas recouvert de peinture (s'il est recouvert de peinture, enlevez d'abord la peinture avant d'attacher le fil). L'appareil peut être endommagé si cela n'est pas fait correctement.*

You can connect another power amplifier for front speakers.
Podrá conectar otro amplificador de potencia para los altavoces delanteros.
Vous pouvez connecter un autre amplificateur de puissance pour les enceintes avant.

External component / Componente exterior / Appareil extérieur

KD-DV5000

KS-U57 *6

Signal cord (not supplied with this unit)
Cable de señal (no suministrado con esta unidad)
Cordon de signal (non fourni avec cet appareil)

External component
Componente exterior
Appareil extérieur

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

JVC CD changer jack
Toma del cambiador de CD de JVC
Prise CD changeur JVC

6

JVC

ENGLISH

A Guide to MP3

▶ What is MP3?

MP3 (MPEG Audio Layer 3) is one of digital audio compression standards.
- This player cannot play back MP3i and MP3 PRO formats.

▶ About Tag of MP3

This player can show the names of albums, artists (performer), and tracks of MP3 Tag.
- This player can handle only one-byte characters. Any other characters cannot be correctly displayed.

▶ About formats of MP3

This player cannot play back the following files:
- MP3 files without extensions such as [.MP3].
- MP3 files with the extensions other than [.MP3].
- Files which do not have MP3 data.
- MP3 files are not encoded in an appropriate format.
- MP3 files encoded with Layer1/2.
- Files which have the data such as WMA, WAVE, ATRAC3, MPEG 2.5, etc.

▶ About available formats of disc

This player cannot play back the following cases:
- CD-R/RW on which the files are written with "Packet Write" method.
- There are improper recording conditions (missing data, etc.) or media conditions (stain, scratch, warp, etc.).
- There are unclosed sessions on CD-R/RW (this player skips unclosed sessions).

▶ About functions restrained during MP3 playback

- The search function works but search speed is not constant during search.
- When skip is tried at the last file in a folder, the next folder is selected.

▶ Glossary

CD-DA
The data of music CD

Mixed-CD
A CD-R/RW on which audio tracks (CD-DA data) have been added to data tracks before closing a session.

Enhanced-CD
A CD-R/RW on which data tracks have been added to audio tracks (CD-DA data) before closing a session.

Multiple session
A CD-writing method, which make it possible to add data on a CD-R/RW after closing a session.

ESPAÑOL

Una guía sobre MP3

▶ ¿Qué es MP3?

MP3 (MPEG Audio Layer 3) es una de las normas de compresión de audio digital.
- Los formatos MP3i y MP3 PRO no se encuentran disponibles.

▶ Acerca del Tag para MP3

Este reproductor puede mostrar los nombres de los álbumes, artistas (ejecutantes), y pistas del Tag para MP3.
- Este reproductor puede manejar solamente caracteres de un byte. Los demás caracteres no serán visualizados correctamente.

▶ Acerca de los formatos disponibles con MP3

Este reproductor no puede reproducir los archivos siguientes:
- Archivos MP3 que no tengan las extensiones [.MP3].
- Archivos MP3 con otras extensiones que no sean [.MP3].
- Archivos que no tengan datos MP3.
- Los archivos MP3 no están codificados en un formato apropiado.
- Archivos MP3 codificados con Layer1/2.
- Archivos que dispongan de datos tales como WMA, WAVE, ATRAC3, MPEG 2.5, etc.

▶ Acerca de los formatos de discos disponibles

Este reproductor no podrá efectuar la reproducción en los casos siguientes:
- CD-R/RW cuyos archivos están escritos con el método "Packet Write" (escritura por paquetes).
- Condiciones inadecuadas de grabación (datos faltantes, etc.) o del medio (manchas, rayaduras, alabeo, etc.).
- Hay sesiones sin cerrar en el CD-R/RW (este reproductor omite las sesiones sin cerrar).

▶ Acerca de las funciones inhibidas durante la reproducción de MP3

- Es posible activar la función de búsqueda, pero la velocidad de búsqueda no se mantiene constante.
- Cuando se intente omitir en el último archivo de una carpeta, se seleccionará la siguiente carpeta.

▶ Glosario

CD-DA
Datos de un CD de música

Mixed-CD
Un CD-R/RW con pistas de audio (datos de CD-DA) añadidas a las pistas de datos antes de cerrar una sesión.

Enhanced-CD
Un CD-R/RW al que se han añadido pistas de audio (datos de CD-DA) antes de cerrar una sesión.

Multiple session
Un método de escritura de CD, que hace posible añadir datos a un CD-R/RW después de cerrar una sesión.

FRANÇAIS

Un guide du format MP3

▶ Qu'est-ce que le format MP3?

MP3 (Norme MPEG Audio de Layer 3) est une des normes de compression audio numérique.
- Ce lecteur ne peut pas reproduire les formats MP3i et MP3 PRO.

▶ À propos des balises MP3

Ce lecteur peut afficher le nom des albums, des artistes (interprète) et des plages des balises MP3.
- Ce lecteur peut prendre en charge uniquement les caractères d'un octet. Tous les autres caractères ne peuvent pas être affichés correctement.

▶ À propos des formats MP3

Ce lecteur ne peut pas reproduire les fichiers suivants:
- Les fichiers MP3 sans extension telle que [.MP3].
- Les fichiers MP3 avec une extension différente que [.MP3].
- Les fichiers qui ne contiennent pas de données MP3.
- Les fichiers MP3 ne sont pas codés dans le format approprié.
- Les fichiers MP3 codés avec le Layer 1/2.
- Les fichiers avec des données telles que WMA, WAVE, ATRAC3, MPEG 2.5, etc.

▶ À propos des formats de disque disponibles

Ce lecteur ne peut pas reproduire les disques dans les cas suivants:
- Les CD-R/RW sur lesquels les fichiers ont été écrits avec la méthode "Packet Write" (écriture par paquet).
- Il y a eu des conditions d'enregistrement incorrectes (données manquantes, etc.) ou le support est en mauvaise condition (tâché, rayé, gondolé, etc.)
- Une session sur le CD-R/RW n'a pas été fermée (ce lecteur saute les sessions non fermées).

▶ À propos des fonctions réduites pendant la lecture MP3

- La fonction de recherche fonctionne mais la vitesse de recherche n'est pas constante.
- Quand vous essayez d'utiliser la fonction de saut pour le dernier fichier d'un dossier, le dossier suivant est choisi.

▶ Glossaire

CD-DA
Les données des CD musicaux

Mixed-CD (CD mixé)
Des plages audio (données CD-DA) ont été ajoutées aux plages de données d'un CD-R/RW avant la fermeture d'une session.

Enhanced-CD (CD amélioré)
Des plages de données ont été ajoutées aux plages audio (données CD-DA) d'un CD-R/RW avant la fermeture d'une session.

Multiple session (Session multiple)
Une méthode d'écriture de CD qui permet d'ajouter des données sur un CD-R/RW après la fermeture d'une session.

Table of playable disc types / Tabla de los tipos de discos reproducible / Tableau des types de disque reproductibles

○: Compatible / Compatibles / *Compatible*

		KD-DV5000
Discs containing MP3 files / **Discos conteniendo tanto archivos MP3 /** **Disques contenant à la fois des fichiers MP3**		MP3 playback / Reproducción de MP3 / *Lecteur MP3*
Mixed-CD	**MP3 + CD-DA**	CD-DA playback / Reproducción de CD-DA / *Lecture CD-DA*
	Other files + CD-DA / **Otros archivos + CD-DA /** **Autres fichiers + CD-DA**	CD-DA playback / Reproducción de CD-DA / *Lecture CD-DA*
Enhanced CD	**CD-DA + MP3**	CD-DA playback / Reproducción de CD-DA / *Lecture CD-DA*
File name system / **Sistema de nombre de archivo /** **Système de noms de fichiers**	**ISO9660 Level1 / Level1 / Niveau1**	Up to 12 characters (8.3 format) / Hasta 12 caracteres (formato 8,3) / *12 caractères maximum (format 8,3)*
	ISO9660 Level2 / Level2 / Niveau2	Up to 31 characters / Hasta 31 caracteres / *31 caractères maximum*
	ISO9660 Level3 / Level3 / Niveau3	Not available / No disponible / *Non disponible*
	Romeo	Up to 62 characters / Hasta 62 caracteres / *62 caractères maximum*
	Joliet	Up to 62 characters / Hasta 62 caracteres / *62 caractères maximum*
	Windows long file name / **Norma de archivo largo Windows /** **Nom de fichier long Windows**	Up to 62 characters / Hasta 62 caracteres / *62 caractères maximum*
Multiple session / Sesión múltiple / Session multiple		○
80-minute discs (capacity: 700 MB) / **Discos de 80 minutos (capacidad: 700MB) /** **Disques de 80 minutes (capacité: 700 Mo)**		○

- Maximun number of characters for file/folder names includes 4 extension characters—".MP3".
- El número máximo de caracteres para los nombres de archivos/carpetas incluye 4 caracteres de extensión—".MP3".
- *Le nom maximum de caractères pour les noms de fichier/dossier comprend les 4 caractères de l'extension—".MP3".*

Table for playable MP3 files / Tabla de archivos MP3 reproducible / Tableau des fichiers MP3 reproductibles

○: Compatible / Compatibles / *Compatible*

			KD-DV5000
MP3	**Bit-rate / Velocidad de bit / Débit binaire**		8 kbps—320 kbps
	VBR		○
	Sampling frequency / **Frecuencia de muestreo /** **Fréquence d'échantillonnage**	**MPEG-1**	48 kHz, 44.1 kHz, 32 kHz
		MPEG-2	24 kHz, 22.05 kHz, 16 kHz
	Joint stereo / Joint Stereo / Mode stéréo combiné		○
	Emphasis / Emphasis / Accentuation		—
	ID3-Tag / ID3-Tag / Balise ID3		Ver. 1.0, 1.1
m3u playlist / m3u playlist / Playlist m3u			Not available / No disponible / *Non disponible*
Manual search / Búsqueda manual / Recherche manuelle			○ (Search speed is not constant. / La velocidad de búsqueda no es constante. / *La vitesse de recherche n'est pas constante.*)
Maximum number of folder hierarchy / **Número máximo de jerarquía de carpetas /** **Nombre maximum de hiérarchies de dossiers**			10
Maximum number of files/folders / **Número máximo de archivos/carpetas /** **Nombre maximum de fichiers/dossiers**	**Files on each folder /** **Archivos en cada carpeta /** **Fichiers dans chaque dossier**		150
	Folders on a disc / **Carpetas en un disco /** **Dossiers dans un disque**		99
	Total / Total / Total		14 850
Maximum number of characters on the display / **Número máximo de caracteres en la pantalla /** **Nombre maximum de caractères sur l'affichage**			62 (32 on the monitor) (including [.MP3]) 62 (32 en el monitor) (incluyendo [.MP3]) *62 (32 sur le moniteur) (incluant [.MP3])*

▶ **Questions and Answers**

An MP3 disc requires a long readout time…?
When an MP3 disc is inserted, information inside the disc (number of folders and files, and positions of data) is first read.
So, in the following cases, a fairly long time may be needed before playback starts:
- If the file structure is complicated,
- If the number of files is large, or
- If the number of sessions is large (in case of multi-session discs).

There occurs sound interruption or sound skipping…?
Sound interruption or sound skipping may occur, depending on recording conditions (missing data, etc.) or media conditions (stain, scratch, warp, etc.).

MP3 files are not played back in an intended order…?
This player plays back MP3 files in the order they are organized on the disc.
- The playback order may differ from your intended order because of your writing software.

Elapsed playing time is not displayed correctly…?
Files recorded in VBR (variable bit rate) have a discrepancy in elapsed time display, and do not show the actual passage of time. Especially, after performing the search function, this difference becomes noticeable.

▶ **Preguntas y respuestas**

¿Un disco MP3 requiere un mayor tiempo de lectura...?
Cuando se inserta un disco MP3, primero se lee la información contenida dentro del disco (número de carpetas y archivos, y posiciones de los datos).
Por lo tanto, en los siguientes casos, es posible que se tarde un poco antes de iniciarse la reproducción:
- Si la estructura del archivo es complicado,
- Si el número de archivos es grande,
- Si el número de sesiones es grande (en caso de discos de múltiples sesiones).

¿Ocurre la interrupción de sonido o la omisión de sonido...?
Puede producirse interrupción u omisión de sonido, dependiendo de las condiciones de grabación (datos faltantes, etc.) o del medio (manchas, rayaduras, alabeo, etc.).

¿Los archivos MP3 no se reproducen en el orden previsto...?
Este reproductor reproduce archivos MP3 en el orden en que se encuentran organizados en el disco.
- El orden de reproducción puede ser distinto del orden previsto debido a su software de escritura.

¿El tiempo transcurrido no se visualiza correctamente...?
Los archivos grabados en VBR (velocidad de bit variable) presentan discrepancia en la visualización del tiempo transcurrido, y no visualizan exactamente el tiempo que transcurre. Especialmente, esta diferencia se vuelve más evidente después de realizar la función de búsqueda.

▶ **Questions et réponses**

Le temps d'initialisation d'un disque MP3 est plus long...?
Quand un disque MP3 est inséré, les informations dans le disque (nombre de dossiers et de fichiers, position des données) sont lues.
Dans les cas suivants, un temps plus long peut être nécessaire avant que la lecture démarre:
- *Si la structure des fichiers est compliquée.*
- *Si le nombre de fichiers est grand.*
- *Si le nombre de sessions est grand (dans le cas d'un disque multi sessions).*

Il y a des interruptions de son ou le son est sauté...?
Des interruptions du son ou des sauts dans la lecture peuvent se produit en fonction des conditions d'enregistrement (données manquantes, etc.) ou des conditions du support (saleté, rayure, disque gondolé, etc.)

Les fichiers MP3 ne sont pas reproduits dans l'ordre souhaité...?
Ce lecteur reproduit les fichiers MP3 dans l'ordre où ils sont organisés sur le disque.
- *L'ordre de lecture peut différer de l'ordre souhaité à cause du logiciel de gravure.*

La durée de lecture écoulée n'est pas affichée correctement...?
Les fichiers enregistrés en mode VBR (débit binaire variable) ont une différence dans l'affichage de la durée de lecture écoulée et n'affiche pas le temps du passage actuel. Plus spécialement, la différence devient importante après l'utilisation de la fonction de recherche.