JVC

DVD/CD PLAYER   KV-DV7

REPRODUCTOR DVD/CD   KV-DV7

LECTEUR DVD/CD   KV-DV7

DVD VIDEO™

COMPACT **disc** DIGITAL VIDEO

DOLBY DIGITAL

dts DIGITAL OUT

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. _____

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.

CAUTION: DO NOT insert a disc while the disc loading lamp is flashing or is not lit. (See page 6.)

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.
• **DO NOT use 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.**
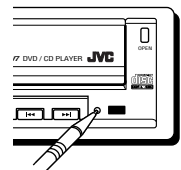
How to reset your unit

Press the reset button on the front panel using a ball-point pen or a 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 be also 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.

CONTENTS

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.

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.

3

INTRODUCTION

About this manual

This manual mainly explains operations using the buttons on the remote control. You can also use the buttons on the control panel for the same operations if they have the similar or same marks.

Discs you can play:

Disc Type	Mark (Logo)	Video Format	Region Code Number*
DVD Video	DVD VIDEO™ / DVD VIDEO™	NTSC	1 ALL
Video CD	COMPACT disc DIGITAL VIDEO / Video CD		————
Audio CD	COMPACT disc DIGITAL AUDIO	————	————

• On some discs, their 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-R, CD-RW, 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 only can play back DVD discs whose Region Code numbers include "1."

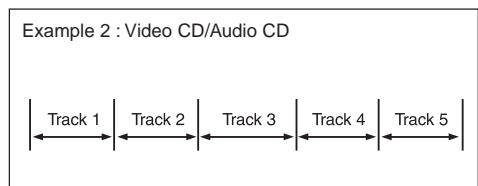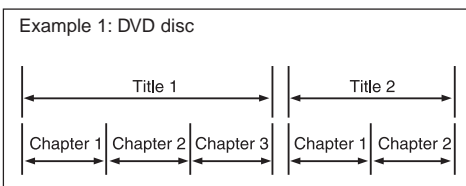Examples:

ALL   1   1 2   1 2 3 4

Disc structure – DVD, Video CD (VCD) and Audio CD (CD)

A DVD disc consists of **Titles**, and each title may be divided into some **Chapters**. (See Example 1.)
For example, if a DVD disc contains some movies, each movie may have its own title number, and it may be further divided into some chapters.

On the other hand, a VCD or CD consists of **Tracks**. (See Example 2.)
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 Playback Control (PBC) function, you can select what to view using the menu shown on the monitor. (While operating a Video CD using the menu, some of the functions such as Repeat and Track Search may not work.)

Example 1: DVD disc

Title 1 | Title 2
Chapter 1 | Chapter 2 | Chapter 3 | Chapter 1 | Chapter 2

Example 2 : Video CD/Audio CD

Track 1 | Track 2 | Track 3 | Track 4 | Track 5

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.
- The remote signal reception lamp flashes when the unit receives a remote control signal from the remote controller.

Remote signal reception lamp
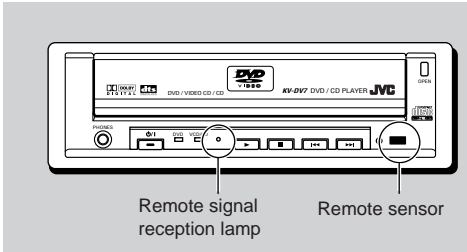
Remote sensor

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

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

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.
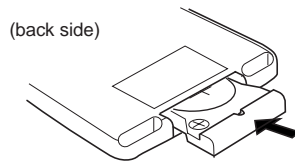   2) Remove the battery holder.

(back side)

1)

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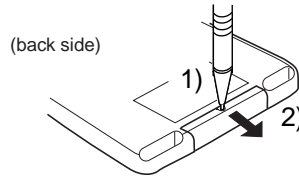
2. Place the battery.
   Slide the battery into the holder with the + side facing upwards so that the battery is fixed in the holder.

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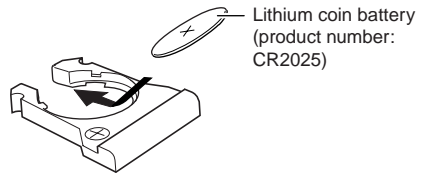
3. Return the battery holder.
   Insert again the battery holder pushing it until you hear a clicking sound.

(back side)

BASIC PLAYBACK

The following marks used in this manual indicate the discs to be used.

DVD Video   **Video CD**   **Audio CD**

POWER ⏻/|

■

H/P VOL ▲
H/P VOL ▼

SHIFT (S)

POWER   SUBTITLE   AUDIO   ANGLE   ❚❚ STEP

DISPLAY
D
STEP   TIME

MENU
SETUP

H/P VOL
ENTER

TITLE

H/P VOL

RETURN

▶

1 2 3   SLOW
4 5 6   ZOOM
7 8 9   REPEAT
            A-B RPT
SHIFT   CLEAR
S 0 C   M
            SEARCH MODE

RM-RK200   JVC

Before performing any operations, make sure the following....
• Check the connection with the TV and with the car receiver.
• Turn on the TV and the receiver.
• Select this unit (auxiliary or external input) as the playback source on the receiver.
• Select the correct input where this unit is connected.
• **For DVD playback, you can change the Setup Menu setting to your preference. (See pages 20 – 28.)**

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

Starting playback

DVD VCD CD

1 Press POWER ⏻/| to turn on the power.

POWER
⏻/|
The lamps on the buttons on the unit light up.

2 Press OPEN on the unit.
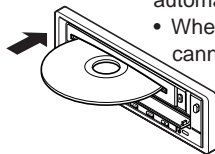The loading slot cover opens.
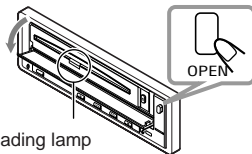
OPEN

Disc loading lamp

DO NOT force the cover open by hand.

3 Insert a disc into the loading slot.
The unit draws in the disc automatically.
• When the power is off, you cannot insert a disc.
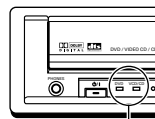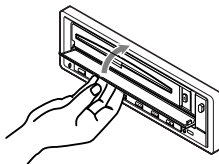
DO NOT insert a disc while the disc loading lamp is flashing* or is not lit**.
* Flashing: while loading or ejecting a disc
** Not lit: when a disc has been loaded.
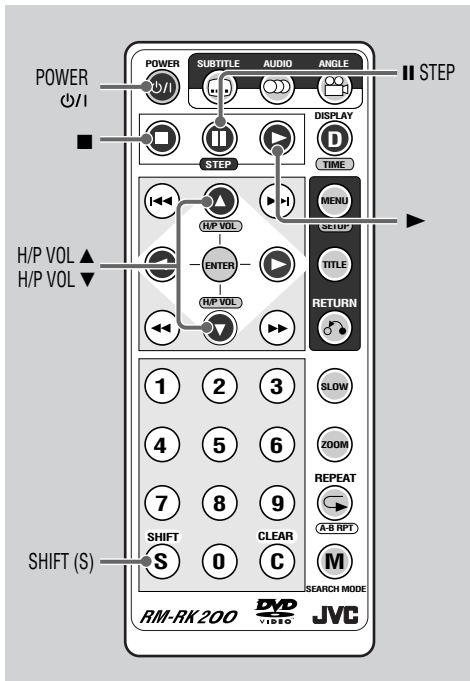
4 Close the slot cover by hand.
The disc type is automatically detected and the detected disc lamp (DVD, VCD/CD) lights up, and playback starts automatically.
• It takes a while to detect the disc type.

DVD / VIDEO CD / CD

Disc lamps

If a menu appears while playing a DVD or VCD with PBC function, see "MENU-DRIVEN PLAYBACK" on page 12.

To stop playback temporarily

Press **II** (**STEP**). A still picture appears while playing a DVD or VCD.
• You can advance the still picture frame by frame by pressing the button repeatedly. (See page 18.)

To resume playback, press ►.

To stop playback

Press ■.
If you are playing back a DVD or VCD, this unit can memorize the end point ("■" appears for a while on the screen), and when you start playback again, playback begins from where it has been stopped. (Resume play)

To eject a disc

1 Press **OPEN** on the unit to open the slot cover.
2 Press ▲ on the unit (inside the slot cover). The disc automatically comes out of the loading slot.

To locate a particular chapter or track

You can move to another chapter or track while playing a disc.
• Press ►►I to go ahead to the beginning of the next track.
  Each time you press the button consecutively, the beginning of the next tracks is located and played back.

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

If you press and hold the button, you can fast-forward (by holding ►►I) or fast-reverse the play (by holding I◄◄).

Listening with headphones

1 Connect the headphones to the PHONES jack on the unit.
2 While holding **SHIFT** (**S**), then press **H/P VOL** ▲ or **H/P VOL** ▼ to adjust the headphones volume.

DO NOT use the headphones while driving. It is dangerous to shut off the outside sounds while driving.

About sounds reproduced through the rear terminals
• **Through AUDIO (L/R):**
  Analog stereo signals are output.
  When playing a source encoded with Dolby Digital* (⧠⧠ DOLBY DIGITAL) , multichannel signals are mixed to the left and right front channel signals, then output.
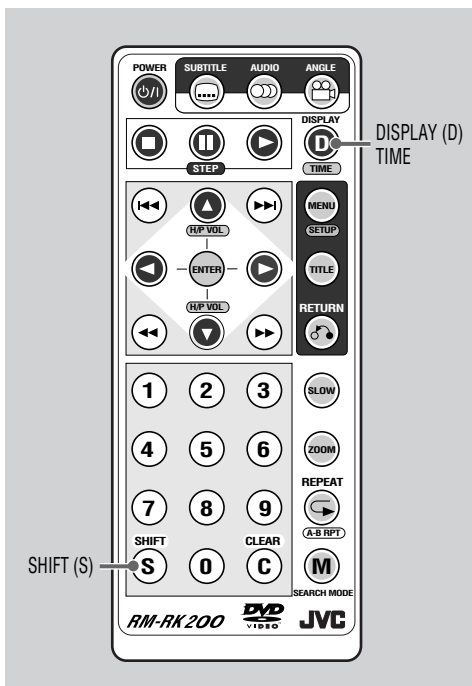 – You cannot reproduce the sound encoded with DTS Digital Surround** (DIGITAL dts SURROUND).
• **Through DIGITAL OUT:**
  Digital signals (Linear PCM, Dolby Digital, DTS Digital Surround) are output through this terminal. (For more details, see page 35.)
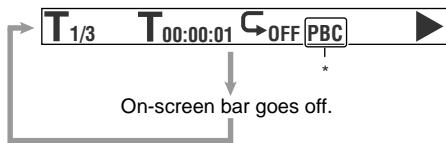 To reproduce the multichannel sounds such as Dolby Digital and DTS Digital Surround, connect an amplifier or a decoder compatible with these multichannel sources to this terminal, and set "DIGITAL OUT" correctly. (See page 22.)

ENGLISH

7

DISPLAY (D)
TIME

SHIFT (S)

Showing the on-screen bar

DVD VCD CD

You can show the following information on the screen while a disc is loaded.

To show the disc information, press **DISPLAY** (**D**)/**TIME**.

Each time you press the button, the following on-screen bar appears in sequence.

When a DVD is loaded:

$T_{1/3}$ $C_{1/25}$ $T_{00:00:01}$ 📹$_{1/1}$ ▶

💬 OFF/0 ◎ ENG 1/1   🔲Digital ↳OFF ▶

On-screen bar goes off.

When a VCD or CD is loaded:

$T_{1/3}$ $T_{00:00:01}$ ↳OFF PBC ▶
                                      *
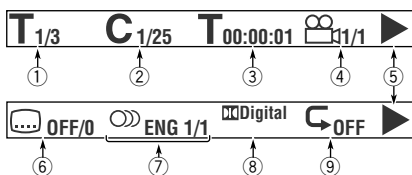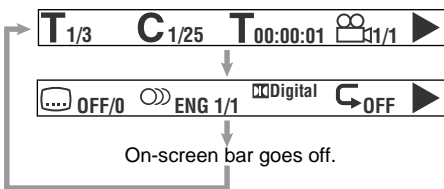
On-screen bar goes off.

* This appears only while a VCD is loaded.

About the indications on the on-screen bar

Indications shown on the on-screen bar vary depending on the disc type and the signals recorded on the loaded disc.

| When a DVD is loaded |
|---|
| $T_{1/3}$ $C_{1/25}$ $T_{00:00:01}$ 📹$_{1/1}$ ▶
① ② ③ ④ ⑤

💬 OFF/0 ◎ ENG 1/1 🔲Digital ↳OFF ▶
⑥ ⑦ ⑧ ⑨ |
| ① : Current title and the total number of the titles on the disc.
(Ex.: 1st title is playing out of 3 titles recorded.) |
| ② : Current chapter and the total number of the chapters recorded on the disc.
(Ex.: 1st chapter is playing out of 25 chapters recorded.) |
| ③ : Playing time or the remaining time.
(Ex.: Playing time of the title. See page 9 for more details.) |
| ④ : Indicates whether the disc contains multi-angle views.
(Ex.: When only main angle-view is recorded on the disc without any multi-angle views. See page 11 for more details.) |
| ⑤ : Current operation mode.
(Ex.: This appears while playing a disc.) |

8

⑥ : Indicates whether the disc contains
subtitles.
(Ex.: When no subtitle is recorded on the
disc. See page 10 for more details.)

⑦ : Current selected audio language and the
total number of the audio languages
recorded on the disc.
(Ex.: "ENGLISH" is selected as the only
recorded audio language on the disc. See
page 11 for more details.)

⑧ : Sound mode — Linear PCM (stereo),
Dolby Digital, and DTS Digital Surround.
(Ex.: When the disc is encoded with Dolby
Digital.)

⑨ : Repeat play mode.
(Ex.: When Repeat play mode is set to
"OFF." See page 16 for more details.)

When a VCD or CD is loaded

T1/3 **T**00:00:01 ↳OFF PBC ▶
①   ②   ③ ④ *   ⑤
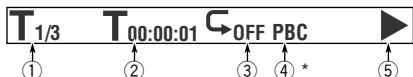
* This appears only while a VCD is loaded.

① : Current track and the total number of the
tracks on the disc.
(Ex.: 1st track is playing out of 3 tracks
recorded.)

② : Playing time or the remaining time.
(Ex.: Playing time of the track. See the
right column for more details.)

③ : Repeat play mode.
(Ex.: When Repeat play mode is set to
"OFF." See pages 16 and 17 for more
details.)

④ : Appears only while loading a VCD.
Indicates whether the VCD is recorded
with the PBC function (**PBC**) or without
(**P̶B̶C̶**).
(Ex.: When PBC function is recorded.)

⑤ : Current operation mode.
(Ex.: This appears while playing a disc.)

Checking the playing time

You can also show the elapsed playing time or
the remaining time.

**To show the on-screen bar and to change the
playing time information,** press **DISPLAY** (**D**)/
**TIME** while holding **SHIFT** (**S**).

SHIFT **S**   and   **DISPLAY D TIME**

Each time you press the button, the playing time
information changes on the on-screen bar.

When a DVD is loaded

T00:00:01 → **T**-01:54:01
C-00:34:09 ← **C**00:00:05
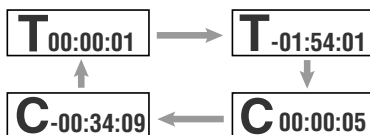
Elapsed playing time of the current **title** ➡
Remaining time of the current **title** ➡
Elapsed playing time of the current **chapter** ➡
Remaining time of the current **chapter** ➡
(Back to the beginning)

When a VCD or CD is loaded

T00:00:01 → **T**-00:04:41
D-00:43:09 ← **D**00:00:05
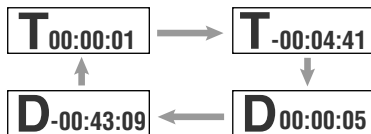
Elapsed playing time of the current **track** ➡
Remaining time of the current **track** ➡
Elapsed playing time of the current **disc** ➡
Remaining time of the current **disc** ➡
(Back to the beginning)

To erase the on-screen bar, press **DISPLAY**
(**D**)/**TIME** twice while playing a DVD, or once
while playing a VCD or CD.
• It is not required to hold down SHIFT (S) to
erase the on-screen bar.

9
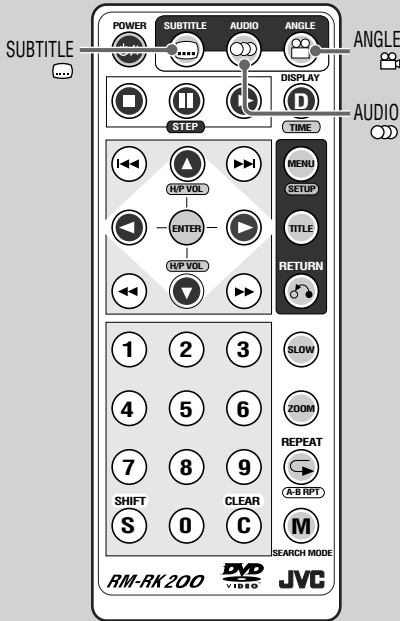
Some DVDs contain several audio languages, subtitles, and multi-angle views.
When you find the following marks on the DVD or its package, you can select these elements recorded on the DVD.

3	Subtitles are recorded on the disc. The number inside the mark indicates the total number of the recorded subtitles.
3	Several audio languages are recorded on the disc. The number inside the mark indicates the total number of the recorded audio languages.
3	Multi-angle views are recorded on the disc. The number inside the mark indicates the total number of the recorded multi-angle views.

Selecting subtitles

While playing a disc containing subtitles in different languages, you can select the subtitle to be displayed on the screen.
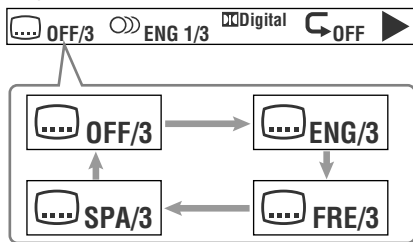• You can set your favorite subtitle language as the initial language shown on the screen. (See page 21.)

Select a desired subtitle language.

The on-screen menu bar appears on the screen. Each time you press the button, the subtitle language changes.

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

```
[....] OFF/3   ◯)) ENG 1/3   [DD Digital]  ⌐OFF  ▶
```

```
[....] OFF/3  ──→  [....] ENG/3
   ↑                    │
   │                    ↓
[....] SPA/3  ←──  [....] FRE/3
```

To erase the on-screen bar, press **DISPLAY**
(**D**)/**TIME**.

Selecting audio languages

While playing a disc containing audio languages
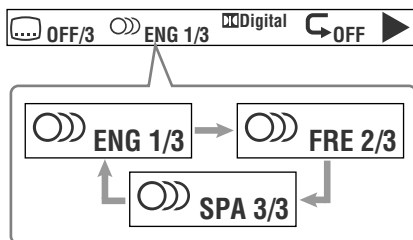(sound tracks), you can select the language
(sound) to listen to.
• You can set your favorite audio language as the
  initial audio language shown on the screen.
  (See page 20.)

Select a desired audio language (sound).

AUDIO

The on-screen menu bar appears
on the screen. Each time you
press the button, the audio
language changes.

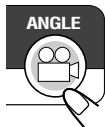Ex.: When the disc has 3 selections —
English, French, and Spanish

```
[....] OFF/3   ◯)) ENG 1/3   [DD Digital]  ⌐OFF  ▶
```

```
◯)) ENG 1/3  ──→  ◯)) FRE 2/3
   ↑                    │
   │                    ↓
      ◯)) SPA 3/3  ←──
```

To erase the on-screen bar, press **DISPLAY**
(**D**)/**TIME**.
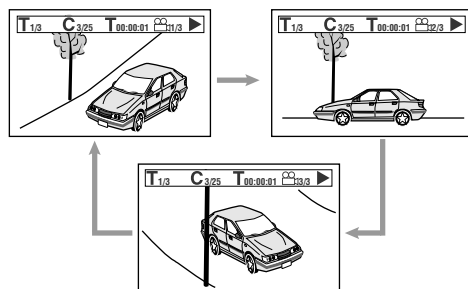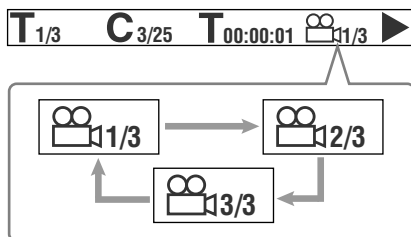
Selecting multi-angle views

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

Select a desired view angle.

ANGLE

The on-screen menu bar appears
on the screen. Each time you
press the button, the view angle
changes.

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

```
T1/3    C3/25   T00:00:01  ⌒11/3  ▶
```

```
⌒1/3  ──→  ⌒2/3
   ↑           │
   │           ↓
      ⌒3/3  ←──
```


To erase the on-screen bar, press **DISPLAY**
(**D**)/**TIME** twice.

Menu operations

DVD VCD

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

While playing a DVD:

DVD discs generally have their own menus or title lists. A Menu usually contains various information about the disc and playback selections. On the other hand, a title list usually contains titles of movies and songs recorded.
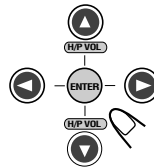
1 Press MENU/SETUP or TITLE.
A menu or title list will appear on the screen.

MENU **SETUP** or **TITLE**
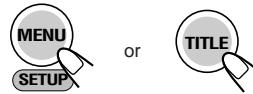
2 Select a desired item on the menu or on the title list, using Cursor buttons (▲/▼/►/◄) and ENTER.
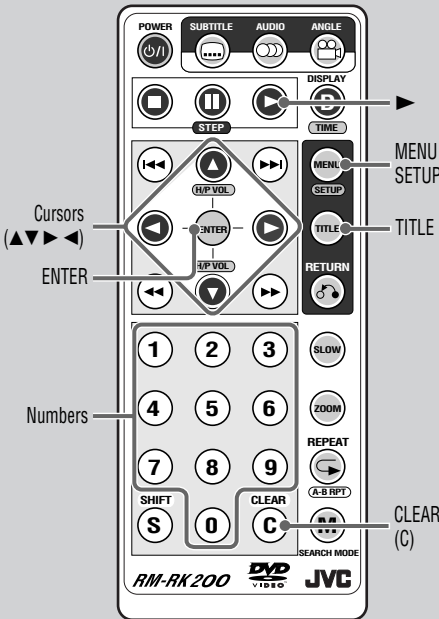The unit starts playback of the selected item.

- On some discs, you can also select items by pressing the **Number** buttons corresponding to the item numbers listed.

To erase the menu or title list

Press **RETURN** ↰ until it goes off from the screen.

- **If " ⊘ "appears on the screen when pressing MENU in step 1,** the disc does not have a menu.
- **If " ⊘ "appears on the screen when pressing TITLE in step 1,** the disc does not have a title list.

POWER SUBTITLE AUDIO ANGLE

DISPLAY

STEP TIME

MENU SETUP

Cursors (▲▼►◄)

H/P VOL

ENTER

TITLE

H/P VOL

RETURN

SLOW

ZOOM

REPEAT

A-B RPT

Numbers

1 2 3

4 5 6

7 8 9

SHIFT CLEAR

S 0 C

CLEAR (C)

SEARCH MODE

RM-RK200 DVD VIDEO JVC

While playing a VCD:

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

Select a desired item on the menu.
• When a list of items is displayed on the screen, press the **Number** buttons to select an item.
• When "▶" or "SELECT" is displayed on the screen, press ▶ (or **ENTER** if pressing ▶ does not work) to start playback.
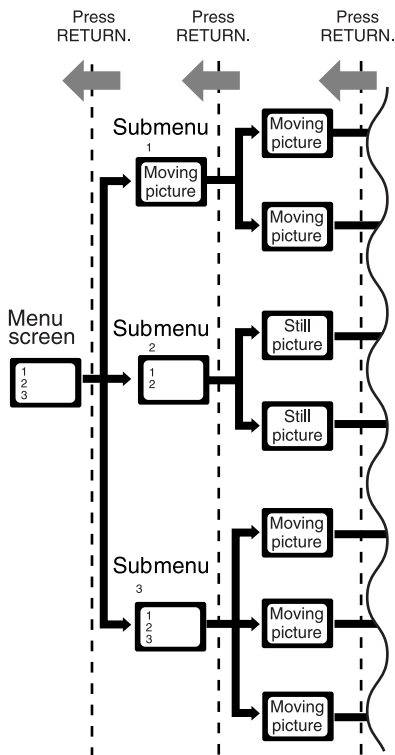

How to select items using the Number buttons
• To select number 5, press **5**, then **ENTER**.
• To select number 10, press **1**, **0**, then **ENTER**.
• To select number 23, press **2**, **3**, then **ENTER**.
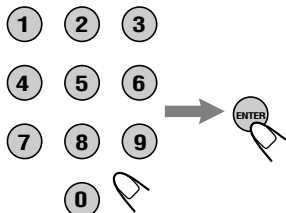
• To cancel a mis-entry, press **CLEAR** (**C**). Each time you press the button, the last entry will be erased.

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 the **Number** buttons to select a track, then press **ENTER**.
Normal playback starts from the selected track.
  • You can also turn on and off the PBC playback by pressing **MENU/SETUP** repeatedly.

PBC operation concept

Press RETURN.   Press RETURN.   Press RETURN.

Menu screen

Submenu 1 — Moving picture

Submenu 1 — Moving picture → Moving picture / Moving picture

Submenu 2 — Still picture / Still picture

Submenu 3 — Moving picture / Moving picture / Moving picture

ENTER

◄◄►►

Numbers

SHIFT (S)

POWER · SUBTITLE · AUDIO · ANGLE

DISPLAY · D

STEP · TIME

ENTER

H/P VOL

MENU · SETUP

TITLE

H/P VOL

RETURN

1 2 3 · SLOW

4 5 6 · ZOOM

7 8 9 · REPEAT

SHIFT · CLEAR

S 0 C · M

SEARCH MODE

RM-RK200 · **JVC**

SEARCH MODE (M)
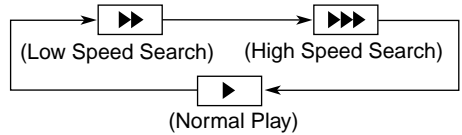
CLEAR (C)

Searching for a particular point

DVD VCD CD

You can search for a particular portion while playing a disc — Forward/Reverse Search.

Forward Search

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

►►

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

►► (Low Speed Search)   ►►► (High Speed Search)

► (Normal Play)
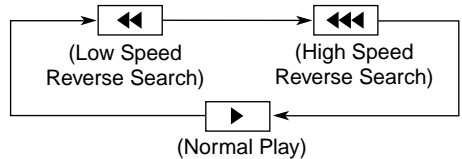
> *When playing a DVD or VCD*
> * *No sound comes out during High Speed Search.*
> * *When Low Speed Search sound setting is "ON," sounds come out during Low Speed Search. (See page 24.)*

Reverse Search

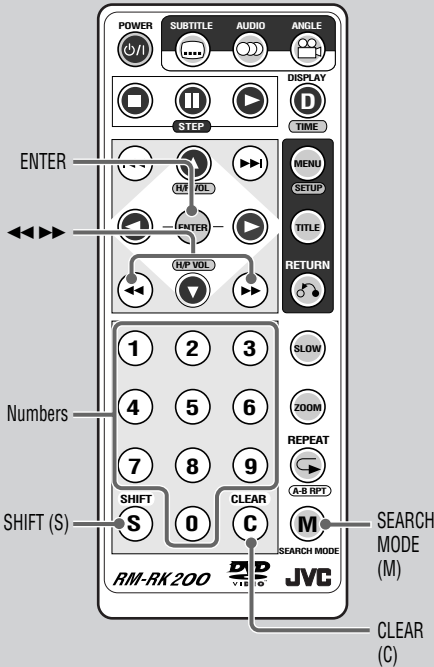**To reverse the chapter or track,** press ◄◄ while playing a disc.

◄◄

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

◄◄ (Low Speed Reverse Search)   ◄◄◄ (High Speed Reverse Search)

► (Normal Play)

> *When playing a DVD or VCD*
> *No sound comes out during Reverse Search.*

Locating a particular point directly

DVD VCD CD

You can use the following Search Modes to locate a particular portion directly while playing a disc.
• For DVD: Title Search, Chapter Search, and Time Search
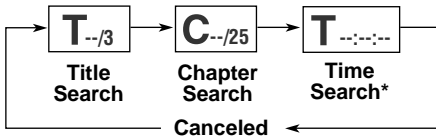• For VCD and CD: Track Search and Time Search

1 Press SEARCH MODE (M) to select Search Mode.
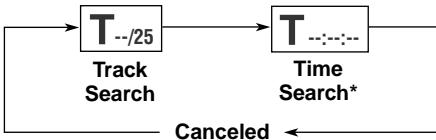
The on-screen bar appears on the screen.

SEARCH MODE

When a DVD is playing:

T--/3	→	**C**--/25	→	**T**--:--:--
Title Search		Chapter Search		Time Search*

Canceled ←

When a VCD or CD is playing:

| **T**--/25	→	**T**--:--:--
Track Search		Time Search*

Canceled ←

* Time Search can be performed only within the current title (for DVD) and the current track (for VCD and CD).

When Search Mode is canceled
You can use the number buttons to directly select the title number (for DVD) and track number (for VCD and CD).

---

2 Press the Number buttons then ENTER to select a desired title, chapter, track or playing time.

The unit starts playback of the selected item.

| 1 | 2 | 3 |
| 4 | 5 | 6 | → ENTER
| 7 | 8 | 9 |
| 0 |
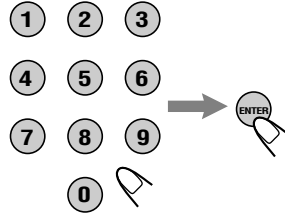
How to input the title, chapter, and track number
Press the **Number** buttons corresponding to the number, then press **ENTER** to start its playback.
• To select number 5, press **5**, then **ENTER**.
• To select number 10, press **1**, **0**, then **ENTER**.
• To select number 23, press **2**, **3**, then **ENTER**.

How to input the playing time
Press the **Number** buttons to input the playing time, then press **ENTER** to start playback at the selected elapsed playing time.
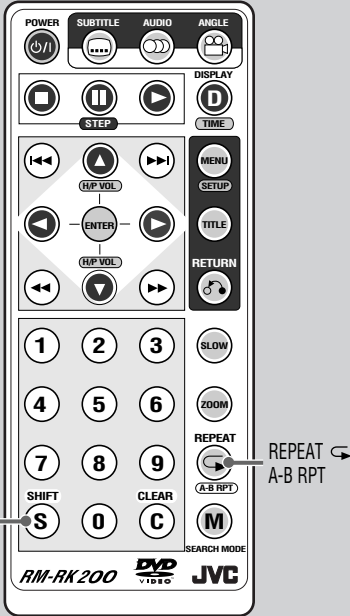• To input time "00:45:23," press **4**, **5**, **2**, **3**, then **ENTER**.
• To input time "01:23:45," press **1**, **2**, **3**, **4**, **5**, then **ENTER**.

• To cancel a mis-entry, press **CLEAR** (**C**). Each time you press the button, the last entry will be erased.

To erase the on-screen bar, press **DISPLAY** (**D**)/**TIME**.

REPEAT PLAYBACK

Playing Repeatedly

DVD VCD CD

Repeat Play

You can repeat a chapter, track, or disc.

To repeat playback, press **REPEAT** (⤴)/**A-B RPT** while playing or pausing.

REPEAT

A-B RPT

The on-screen bar appears. Each time you press the button, the repeat mode indication on the on-screen bar changes as follows:

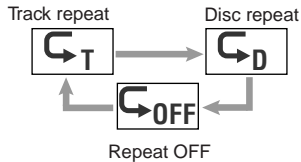**When a DVD is playing:**

Chapter repeat   Title repeat

⤴C → ⤴T

⤴OFF
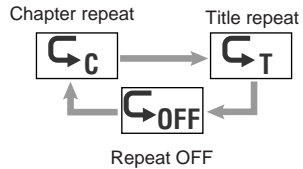
Repeat OFF

• Chapter repeat:	Current chapter will be repeated.
• Title repeat:	Current title will be repeated.
• Repeat OFF:	Repeat play is canceled.

---

* *On some DVDs, repeat play may be canceled by the disc itself.*

When a VCD is playing:

Track repeat   Disc repeat

⤴T → ⤴D

⤴OFF

Repeat OFF

• Track repeat:	Current track will be repeated.
• Disc repeat:	All the tracks in the disc will be repeated.
• Repeat OFF:	Repeat play is canceled.

---

* *While playing back a VCD using the PBC function, Repeat play cannot be used.*

SHIFT (S)

REPEAT ⤴
A-B RPT

POWER SUBTITLE AUDIO ANGLE

DISPLAY
D
STEP TIME

H/P VOL

MENU
SETUP

ENTER

TITLE

H/P VOL

RETURN

1 2 3 SLOW

4 5 6 ZOOM

REPEAT

7 8 9 A-B RPT

SHIFT CLEAR

S 0 C M

SEARCH MODE

RM-RK200 DVD JVC

When a CD is playing*:

Disc repeat

Track repeat

$$\boxed{\mathsf{C_D}} \longleftrightarrow \boxed{\mathsf{C_T}}$$

• Disc repeat:	All the tracks in the disc will be repeated.
• Track repeat:	Current track will be repeated.

* *When you start playing back a CD, Disc repeat is always activated first.*

To erase the on-screen bar, press **DISPLAY** (**D**)/**TIME**.

A-B Repeat

While playing, you can also select a portion you want to repeat.
• When playing a DVD, A-B Repeat is not performed between different chapters or different titles.

1 **While holding SHIFT (S), press REPEAT (↺)/A-B RPT to select the start point.**

SHIFT   REPEAT
S   and   ↺
              A-B RPT
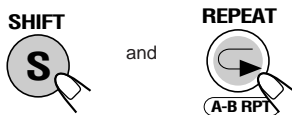
The on-screen bar appears, and the repeat mode indication changes as follows:

$$\boxed{\mathsf{C_{A-}}}$$

2 **While holding SHIFT (S), press REPEAT (↺)/A-B RPT again to select the end point.**

SHIFT   REPEAT
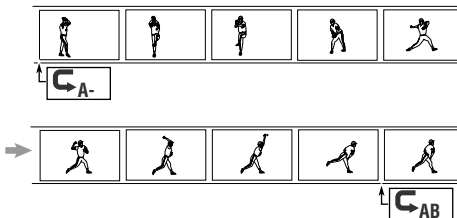**S**   and   ↺
              A-B RPT
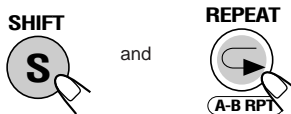
The repeat mode indication changes as follows, and A-B Repeat begins.
The unit automatically locates point A and starts repeated playback of the portion between points A and B.

$$\boxed{\mathsf{C_{AB}}}$$

Ex.: When viewing a picture

To cancel A-B Repeat, press **REPEAT** (↺)/**A-B RPT** once while holding **SHIFT** (**S**).

To erase the on-screen bar, press **DISPLAY** (**D**)/**TIME**.

If " ⊘ "appears on the screen when pressing REPEAT (↺)/A-B RPT in step 1, A-B Repeat cannot be used on the selected portion.
• On some DVDs, A-B Repeat may not be used even within the same chapter. This is due to their disc structures, and not a malfunction of the unit.

17

Slow-Motion Playback

DVD VCD
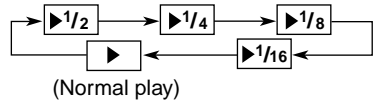
You can enjoy slow-motion playback while playing a DVD or VCD.

To start Slow-motion Playback, press **SLOW** while playing a DVD or VCD.

SLOW

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

$$\blacktriangleright 1/2 \rightarrow \blacktriangleright 1/4 \rightarrow \blacktriangleright 1/8$$
$$\blacktriangleright \leftarrow \blacktriangleright 1/16 \leftarrow$$

(Normal play)

To resume normal play

Press **SLOW** repeatedly until normal play resumes.

Frame-by-frame Playback

DVD VCD

You can advance the picture frame by frame.

1 Press ❚❚ STEP once during play.

STEP

A still picture appears on the screen.

2 Press ❚❚ STEP repeatedly to advance the picture frame by frame.

STEP

Each time you press the button, the picture advances frame by frame.
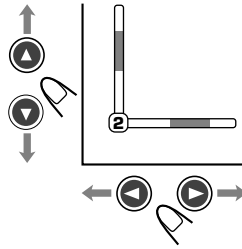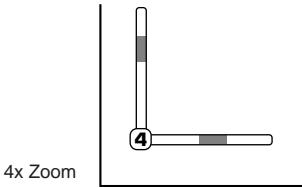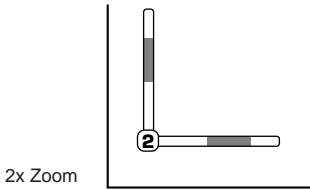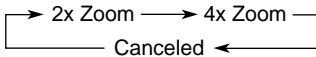
To resume normal play

Press ▶.

❚❚ STEP

Cursors
(▲▼▶◀)

POWER SUBTITLE AUDIO ANGLE

DISPLAY

STEP TIME

H/P VOL

MENU
SETUP

ENTER

TITLE

H/P VOL

RETURN

SLOW — SLOW

ZOOM — ZOOM

REPEAT

A-B RPT

SHIFT CLEAR

SEARCH MODE

RM-RK200 DVD VIDEO JVC

Zoom

DVD VCD

You can zoom up a particular portion of the picture while playing a DVD and VCD.
• You can select the start point of zoom and adjust how precisely the zoomed-up portion is moved. (See page 27.)
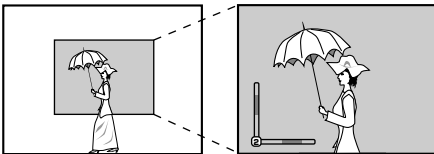
1 Press ZOOM to zoom in to the picture.

ZOOM

Each time you press the button, the picture is enlarged as follows:

→ 2x Zoom ⟶ 4x Zoom ⟶
⟵ Canceled ⟵

2x Zoom

4x Zoom

Ex.: When 2x Zoom is selected

When playing a VCD
You can only select 2x Zoom.

2 Move the enlarged portion on the screen, using Cursor buttons (▲/▼/ ►/◄).

To cancel Zoom, press **ZOOM** repeatedly until normal size screen appears.

19
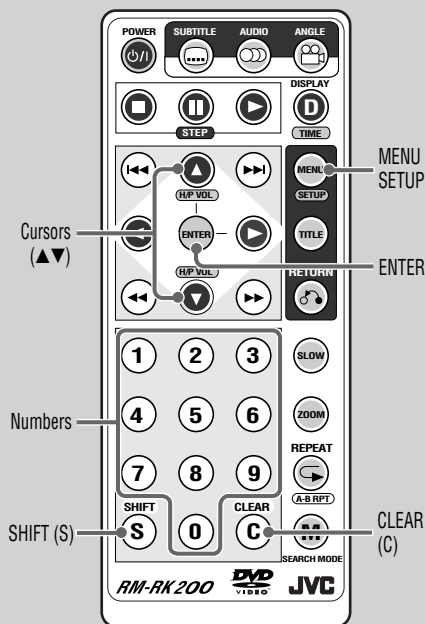
DVD SETUP MENU

You can store the initial selection for subtitle languages, audio languages (sound), and other settings using the Setup Menu.
• DVD Setup menu can only be displayed while a disc is not playing.

Setting initial audio language
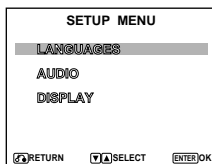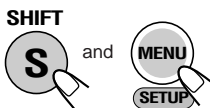
You can select the initial language for audio sound.
However, in the following cases, the original language will be selected as the initial language regardless of your setting.
– If the language you have selected is not recorded on the disc.
– If the disc is programed to be played back in the original language.

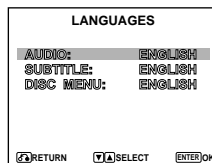To go back to the previous screen during the procedure, press **RETURN** ↩.

Cursors (▲▼)

Numbers

SHIFT (S)

MENU SETUP

ENTER

CLEAR (C)

RM-RK200

1 While holding SHIFT (S), press MENU/SETUP.
Setup Menu appears on the screen. ("LANGUAGES" must be selected – highlighted.)

SHIFT

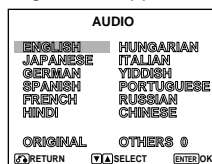**S** and **MENU SETUP**

```
          SETUP  MENU

     LANGUAGES
     AUDIO
     DISPLAY


 ↩RETURN    ▼▲SELECT   ENTER OK
```

2 Press ENTER.
Language menu appears. ("AUDIO" must be selected – highlighted.)

ENTER

```
          LANGUAGES

 AUDIO:            ENGLISH
 SUBTITLE:         ENGLISH
 DISC  MENU:       ENGLISH


 ↩RETURN    ▼▲SELECT   ENTER OK
```

3 Press ENTER again.
Audio Language selecting screen appears.

ENTER

```
              AUDIO

 ENGLISH         HUNGARIAN
 JAPANESE        ITALIAN
 GERMAN          YIDDISH
 SPANISH         PORTUGUESE
 FRENCH          RUSSIAN
 HINDI           CHINESE

 ORIGINAL        OTHERS 0
 ↩RETURN    ▼▲SELECT   ENTER OK
```

4 Press Cursor ▼ (or ▲) to select a desired language, then press ENTER.
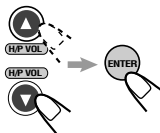
• To use the original language on the disc, select "ORIGINAL."

If a language you want is not listed on the screen, follow the procedure below;
1 Press ▲ or ▼ to select "OTHERS."
2 Press **ENTER**.
3 Press the **Number** buttons to enter the language code number you want.
• See "LANGUAGE CODES" on page 30.

Ex.: To select Finnish as the initial language, press **7**, **0**, **7**, **3**, then **ENTER**.

• To cancel a mis-entry, press **CLEAR** (**C**). Each time you press the button, the last entry will be erased.

To erase the Setup Menu screen, press **MENU/SETUP** while holding **SHIFT** (**S**).

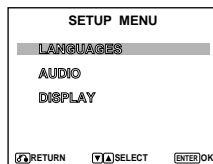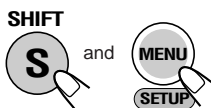# Setting initial subtitle language

You can select the initial language for subtitles. However, in the following cases, the original language will be selected as the initial language regardless of your setting.
– If the language you have selected is not recorded on the disc.
– If the disc is programed to be played back in the original language.

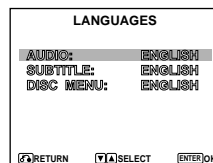To go back to the previous screen during the procedure, press **RETURN** 🔄.

---

1 While holding SHIFT (S), press MENU/SETUP.
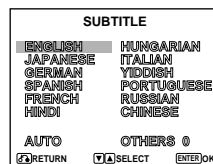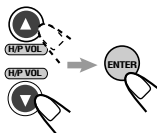Setup Menu appears on the screen. ("LANGUAGES" must be selected – highlighted.)
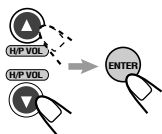
SHIFT

S and MENU/SETUP

```
        SETUP MENU
   LANGUAGES
   AUDIO
   DISPLAY

 RETURN    SELECT    ENTER OK
```

2 Press ENTER.
Language menu appears.

ENTER

```
         LANGUAGES
   AUDIO:        ENGLISH
   SUBTITLE:     ENGLISH
   DISC MENU:    ENGLISH

 RETURN    SELECT    ENTER OK
```

3 Press Cursor ▼ (or ▲) to select "SUBTITLE," then press ENTER.
Subtitle Language selecting screen appears.

```
            SUBTITLE
   ENGLISH      HUNGARIAN
   JAPANESE     ITALIAN
   GERMAN       YIDDISH
   SPANISH      PORTUGUESE
   FRENCH       RUSSIAN
   HINDI        CHINESE

   AUTO         OTHERS 0
 RETURN    SELECT    ENTER OK
```

4 Press Cursor ▼ (or ▲) to select a desired language, then press ENTER.

• To use the same language as the initial audio language, select "AUTO."

If a language you want is not listed on the screen, see the left column.

To erase the Setup Menu screen, press **MENU/SETUP** while holding **SHIFT** (**S**).

Setting initial disc menu language

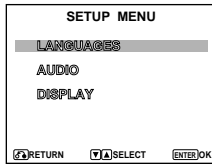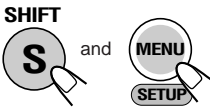You can select the initial language for the disc menu.
However, in the following cases, the disc menu will be displayed in the original language on the disc regardless of your setting.
– If the language you have selected is not recorded on the disc.
– If the disc is programed to be played back in the original language.

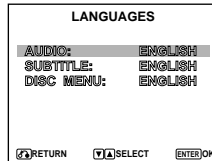To go back to the previous screen during the procedure, press **RETURN** ↩.

1 While holding SHIFT (S), press MENU/SETUP.

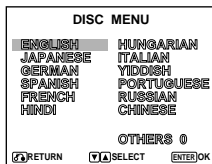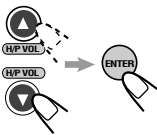Setup Menu appears on the screen. ("LANGUAGES" must be selected – highlighted.)

SHIFT


```
SETUP MENU
LANGUAGES
AUDIO
DISPLAY
RETURN    SELECT    ENTER OK
```

2 Press ENTER.

Language menu appears.


```
LANGUAGES
AUDIO:        ENGLISH
SUBTITLE:     ENGLISH
DISC MENU:    ENGLISH
RETURN    SELECT    ENTER OK
```

3 Press Cursor ▼ (or ▲) to select "DISC MENU," then press ENTER.

Disc Menu Language selecting screen appears.


```
DISC MENU
ENGLISH      HUNGARIAN
JAPANESE     ITALIAN
GERMAN       YIDDISH
SPANISH      PORTUGUESE
FRENCH       RUSSIAN
HINDI        CHINESE
             OTHERS 0
RETURN    SELECT    ENTER OK
```

4 Press Cursor ▼ (or ▲) to select a desired language, then press ENTER.
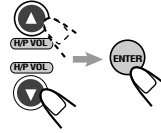
If a language you want is not listed on the screen, see page 21.

To erase the Setup Menu screen, press **MENU/SETUP** while holding **SHIFT** (**S**).
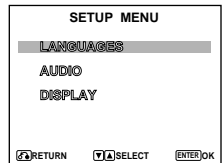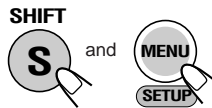
Setting digital audio output

When connecting an amplifier or a decoder to the DIGITAL OUT terminal, set it as recommended – STREAM, LPCM, or OFF (see step 3).

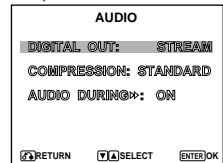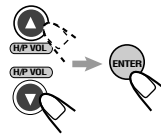To go back to the previous screen during the procedure, press **RETURN** ↩.

1 While holding SHIFT (S), press MENU/SETUP.

Setup Menu appears on the screen.

SHIFT


```
SETUP MENU
LANGUAGES
AUDIO
DISPLAY
RETURN    SELECT    ENTER OK
```

2 Press Cursor ▼ (or ▲) to select "AUDIO," then press ENTER.

Audio menu appears. ("DIGITAL OUT" must be selected – highlighted.)


```
AUDIO
DIGITAL OUT:    STREAM
COMPRESSION: STANDARD
AUDIO DURING▶▶: ON
RETURN    SELECT    ENTER OK
```
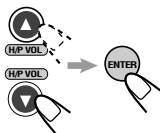
3 Press ENTER.

Digital Out selecting screen appears.

ENTER

```
DIGITAL  OUT

       STREAM
       LPCM
       OFF

RETURN    SELECT   ENTER OK
```
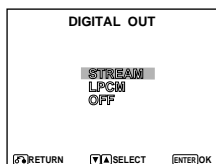
4 Press Cursor ▼ (or ▲) to select an appropriate output, then press ENTER.

H/P VOL **H/P VOL** → **ENTER**

• **STREAM**: Select this when connecting an amplifier or a decoder compatible with Dolby Digital and with DTS Digital Surround.

• **LPCM**: Select this when connecting an amplifier or a decoder incompatible with Dolby Digital.

• **OFF**: Select this when you use the AUDIO L/R (analog) jacks on the rear.
Only with this setting, you can enjoy original high-quality sound of disc whose sampling frequency is 96 kHz through the AUDIO L/R jacks. (No signal will be output from the DIGITAL OUT terminal.)

For more detailed information about the output signals, see page 35.

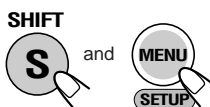**To erase the Setup Menu screen,** press **MENU/SETUP** while holding **SHIFT** (**S**).

Setting compression

You can compress the dynamic range (difference between the maximum and minimum sound levels) while playing a source encoded with Dolby Digital. This is useful when listening at a low volume level.

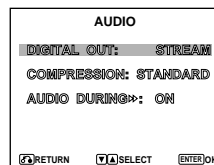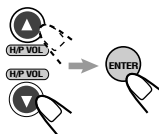To go back to the previous screen during the procedure, press **RETURN** ↩.

1 While holding SHIFT (S), press MENU/SETUP.

Setup Menu appears on the screen.

SHIFT
S and **MENU SETUP**

```
SETUP  MENU

LANGUAGES
AUDIO
DISPLAY

RETURN    SELECT   ENTER OK
```

2 Press Cursor ▼ (or ▲) to select "AUDIO," then press ENTER.

Audio menu appears.

H/P VOL **H/P VOL** → **ENTER**

```
AUDIO

DIGITAL  OUT:       STREAM
COMPRESSION: STANDARD
AUDIO DURING▶▶:  ON

RETURN    SELECT   ENTER OK
```

3 Press Cursor ▼ (or ▲) to select "COMPRESSION," then press ENTER.

Compression Rate selecting screen appears.

H/P VOL **H/P VOL** → **ENTER**

```
COMPRESSION

       FULL
       STNDARD
       NIGHT

RETURN    SELECT   ENTER OK
```

23
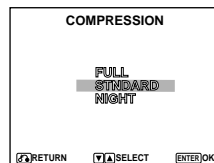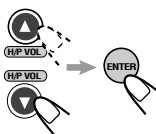
4 **Press Cursor ▼ (or ▲) to select a desired setting, then press ENTER.**
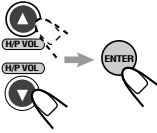
- **FULL**: Select this not to apply compression (full dynamic range as recorded on the original disc).
- **STANDARD**: Select this to reduce the dynamic range a little.
- **NIGHT**: Select this to apply compression fully (useful at a low volume).

To erase the Setup Menu screen, press **MENU/SETUP** while holding **SHIFT** (**S**).

Setting audio output during Low Speed Search

You can turn on or off the sound during Low Speed Search on a DVD and VCD.
• Regardless of this setting, sound always comes out during Low Speed Search on a CD.

> To go back to the previous screen during the procedure, press **RETURN** ↩.

1 **While holding SHIFT (S), press MENU/SETUP.**

Setup Menu appears on the screen.


```
SETUP  MENU

LANGUAGES
AUDIO
DISPLAY

↩RETURN    ▼▲SELECT    ENTER OK
```

2 **Press Cursor ▼ (or ▲) to select "AUDIO," then press ENTER.**
Audio menu appears.


```
AUDIO

DIGITAL OUT:        STREAM
COMPRESSION: STANDARD
AUDIO DURING▶▶:  ON

↩RETURN    ▼▲SELECT    ENTER OK
```
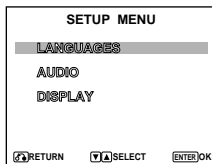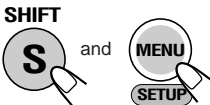
3 **Press Cursor ▼ (or ▲) to select "AUDIO DURING ▶▶," then press ENTER.**
Sound on/off selecting screen appears.


```
AUDIO  DURING ▶

ON
OFF

↩RETURN    ▼▲SELECT    ENTER OK
```
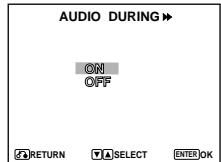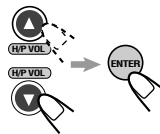
4 **Press Cursor ▼ (or ▲) to select a desired setting, then press ENTER.**
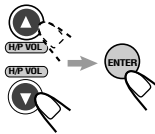
- **ON**: Sounds come out during Low Speed Search*.
- **OFF**: No sounds come out during Low Speed Search.

* Some sounds will be skipped during Low Speed Search.

To erase the Setup Menu screen, press **MENU/SETUP** while holding **SHIFT** (**S**).

24

Setting monitor type

Set the monitor type when you watch a wide screen picture.
• This setting takes effect only when playing back a DVD recorded with 16:9 wide screen video signal.

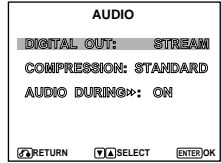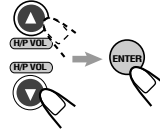To go back to the previous screen during the procedure, press **RETURN** ↶.

1 While holding SHIFT (S), press MENU/SETUP.

Setup Menu appears on the screen.

SHIFT

S and **MENU** **SETUP**

```
        SETUP MENU
    LANGUAGES
    AUDIO
    DISPLAY

  RETURN    ▼▲SELECT    ENTER OK
```

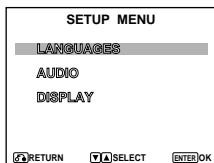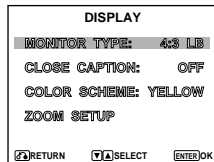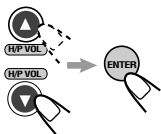## 2 Press Cursor ▼ (or ▲) to select "DISPLAY," then press ENTER.

Display menu appears. ("MONITOR TYPE" must be selected – highlighted.)

H/P VOL → **ENTER**

```
          DISPLAY
  MONITOR TYPE:     4:3 LB
  CLOSE CAPTION:      OFF
  COLOR SCHEME: YELLOW
  ZOOM SETUP

  RETURN    ▼▲SELECT    ENTER OK
```

3 Press ENTER.

Monitor type selecting screen appears.

ENTER

```
       MONITOR TYPE
     4:3  LETTERBOX
     4:3  PAN-SCAN
    16:9  WIDE

  RETURN    ▼▲SELECT    ENTER OK
```

4 Press Cursor ▼ (or ▲) to select a desired setting, then press ENTER.

H/P VOL → **ENTER**
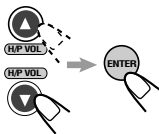
• **4:3 LETTERBOX**: Select this when viewing on TV whose aspect ratio is 4:3. While viewing a wide screen picture, the black bars appear on the top and the bottom of the screen.
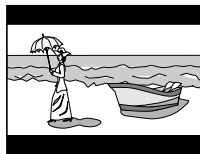
• **4:3 PAN-SCAN**: Select this when viewing on TV whose aspect ratio is 4:3. While viewing a wide screen picture, the black bars do not appear, however, the left and right edge sides of the pictures will not be shown on the screen.
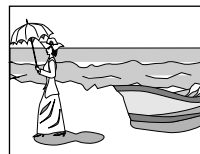
• **16:9 WIDE**: Select this when viewing on TV whose aspect ratio is 16:9.
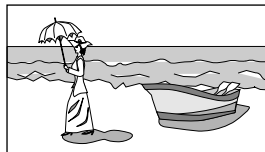
• **Even if "4:3 PAN-SCAN" is selected,** the screen size may become "4:3 LETTERBOX" while playing some DVDs. This depends on how the DVD is programed and recorded.
• **If a disc (or some portions of the disc) is recorded with the video signals of 4:3 aspect ratio,** this setting does not take effect. The pictures are displayed with full 4:3 aspect ratio or with 4:3 Letter box.

To erase the Setup Menu screen, press **MENU/SETUP** while holding **SHIFT** (**S**).

Setting closed caption

Some discs have closed captions.
You can set whether you will display the close captions or not.
• **To show the closed captions on the TV, you have to use a TV with a built-in closed-caption decoder, or to connect a closed-caption decoder in between this unit and a TV.**

To go back to the previous screen during the procedure, press **RETURN** ↰.

1 While holding SHIFT (S), press MENU/SETUP.
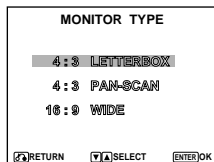Setup Menu appears on the screen.

SHIFT

S and **MENU/SETUP**

```
SETUP MENU
LANGUAGES
AUDIO
DISPLAY
RETURN    SELECT    ENTER OK
```

2 Press Cursor ▼ (or ▲) to select "DISPLAY," then press ENTER.
Display menu appears.

```
DISPLAY
MONITOR TYPE:    4:3 LB
CLOSE CAPTION:      OFF
COLOR SCHEME: YELLOW
ZOOM SETUP
RETURN    SELECT    ENTER OK
```
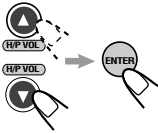
3 Press Cursor ▼ (or ▲) to select "CLOSE CAPTION," then press ENTER.
Closed-caption on/off selecting screen appears.

```
CLOSE CAPTION

OFF
ON

RETURN    SELECT    ENTER OK
```
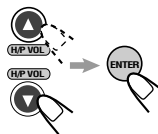
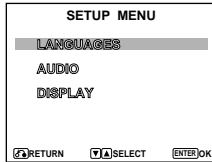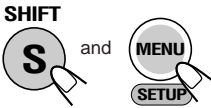## 4 Press Cursor ▼ (or ▲) to select a desired setting, then press ENTER.
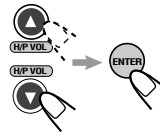
• **ON**: Select this to display the close captions when you start playback.
• **OFF**: Select this not to display the close captions when you start playback.

To erase the Setup Menu screen, press **MENU/SETUP** while holding **SHIFT** (**S**).

Changing the color of the on-screen bar

You can change the color of the on-screen bar displayed on the top of the screen, by selecting the color – yellow, green, blue, or red.

To go back to the previous screen during the procedure, press **RETURN** ↰.

1 While holding SHIFT (S), press MENU/SETUP.
Setup Menu appears on the screen.

SHIFT

S and **MENU/SETUP**

```
SETUP MENU
LANGUAGES
AUDIO
DISPLAY
RETURN    SELECT    ENTER OK
```

2 Press Cursor ▼ (or ▲) to select "DISPLAY," then press ENTER.
Display menu appears.

```
DISPLAY
MONITOR TYPE:    4:3 LB
CLOSE CAPTION:      OFF
COLOR SCHEME: YELLOW
ZOOM SETUP
RETURN    SELECT    ENTER OK
```
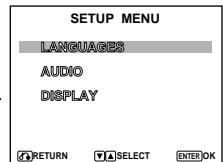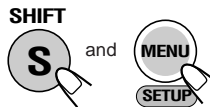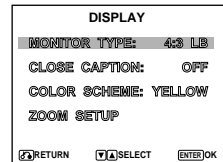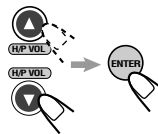
3 Press Cursor ▼ (or ▲) to select
"COLOR SCHEME," then press
ENTER.

```
COLOR  SCHEME


          YELLOW
          GREEN
          BLUE
          RED

RETURN    ▼▲SELECT    ENTER OK
```
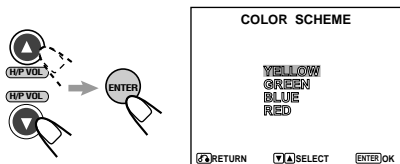
4 Press Cursor ▼ (or ▲) to select a
desired color, then press ENTER.
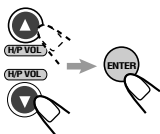
To erase the Setup Menu screen, press **MENU/
SETUP** while holding **SHIFT** (**S**).

Setting zoom preference

You can change the zoom setting to your
preference – where to start the zoom and how to
move the zoomed-up portion.

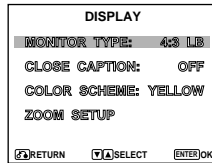To go back to the previous screen during the
procedure, press **RETURN** ⟳.

1 While holding SHIFT (S), press
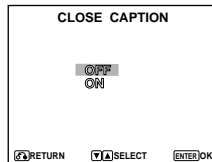MENU/SETUP.
Setup Menu appears on the screen.

```
SETUP MENU

LANGUAGES

AUDIO

DISPLAY

RETURN    ▼▲SELECT    ENTER OK
```

2 Press Cursor ▼ (or ▲) to select
"DISPLAY," then press ENTER.
Display menu appears.

```
DISPLAY

MONITOR TYPE:      4:3 LB

CLOSE CAPTION:       OFF

COLOR SCHEME: YELLOW

ZOOM SETUP

RETURN    ▼▲SELECT    ENTER OK
```
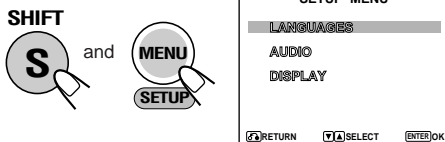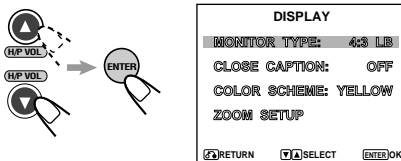
3 Press Cursor ▼ (or ▲) to select
"ZOOM SETUP," then press ENTER.
Zoom Setup screen appears. ("START
POINT" must be selected – highlighted.)

```
ZOOM SETUP



START POINT:  CENTER

PAN SCALE:      NORMAL


RETURN    ▼▲SELECT    ENTER OK
```

ENGLISH

27
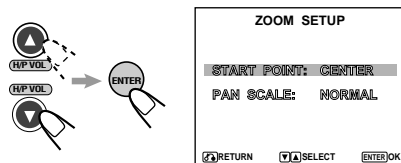
4 Press ENTER again.

Start Point selecting screen appears.


```
ZOOM START POINT

        UPPER LEFT
         CENTER
        LAST POINT


RETURN    ▼▲SELECT    ENTER OK
```
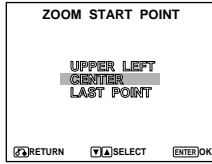
5 Press Cursor ▼ (or ▲) to select a desired setting, then press ENTER.

You can select the start point of zoom.
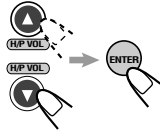
- **UPPER LEFT**: When you press ZOOM, the upper left portion of the picture is zoomed up first.
- **CENTER**: When you press ZOOM, the center portion of the picture is zoomed up first.
- **LAST POINT**: When you press ZOOM, the last zoomed-up portion of the picture is zoomed up.

6 Press Cursor ▼ (or ▲) to select "PAN SCALE," then press ENTER.

Pan Scale selecting screen appears.


```
ZOOM PAN SCALE

          NORMAL
          ROUGH
          FINE


RETURN    ▼▲SELECT    ENTER OK
```

7 Press Cursor ▼ (or ▲) to select a desired setting, then press ENTER.

You can select the movement amount (speed) of the zoomed-up portion.
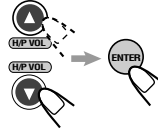
- **NORMAL**: Select this to move at normal speed to another portion of the picture.
- **ROUGH**: Select this to move faster to another portion of the picture. (Rough movement)
- **FINE**: Select this to move slower to another portion of the picture. (Fine movement)

To erase the Setup Menu screen, press **MENU/SETUP** while holding **SHIFT** (**S**).

Handling 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.

• 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).

Center holder

• Make sure to store discs into the cases after use.
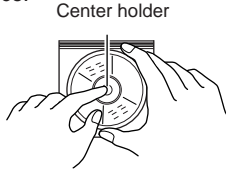
To keep discs clean

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.
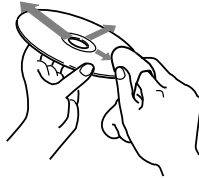
To play new discs

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.

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.
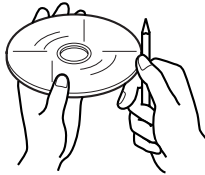
Moisture condensation

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

CAUTIONS:
• *Do not insert 8 cm discs (single discs) into the loading slot. (Such discs cannot be ejected.)*
• *Do not insert any disc of unusual shape — like a heart or flower; otherwise, it will cause a malfunction.*
• *Do not expose discs to direct sunlight or any heat source or place them in a place subject to high temperature and humidity. Do not leave them in a car.*
• *Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.*

⁇ LANGUAGE CODES

|					
6565	Afar	7465	Japanese	8378	Shona
6566	Abkhazian	7473	Yiddish	8379	Somali
6570	Afrikaans	7487	Javanese	8381	Albanian
6577	Amharic	7565	Georgian	8382	Serbian
6582	Arabic	7575	Kazakh	8383	Siswati
6583	Assamese	7576	Greaenlandic	8384	Sesotho
6589	Aymara	7577	Cambodian	8385	Sundanese
6590	Azerbaijani	7578	Kannada	8386	Swedish
6665	Bashkir	7579	Korean	8387	Swahili
6669	Byelorussian	7583	Kashmiri	8465	Tamil
6671	Bulgarian	7585	Kurdish	8469	Telugu
6672	Bihari	7589	Kirghiz	8471	Tajik
6673	Bislama	7665	Latin	8472	Thai
6678	Bengali; Bangla	7678	Lingala	8473	Tigrinya
6679	Tibetan	7679	Laothian	8475	Turkmen
6682	Breton	7684	Lithuainnian	8476	Tagalog
6765	Catalan	7686	Latvian, Lettish	8478	Setswana
6779	Corsican	7771	Malagasy	8479	Tonga
6783	Czech	7773	Maori	8482	Turkish
6789	Welsh	7775	Macedonian	8483	Tsonga
6865	Danish	7776	Malayalam	8484	Tatar
6869	German	7778	Mongolian	8487	Twi
6890	Bhutani	7779	Moldavian	8571	Uigur
6976	Greek	7782	Marathi	8575	Ukrainian
6978	English	7783	Malay	8582	Urdu
6979	Esperanto	7784	Maltese	8590	Uzbek
6983	Spanish	7789	Burmese	8673	Vietnamese
6984	Estonian	7865	Nauru	8679	Volapuk
6985	Basque	7869	Nepali	8779	Wolof
7065	Persian	7876	Dutch	8872	Xhosa
7073	Finnish	7879	Norwegian	8979	Yoruba
7074	Fiji	7967	Occitan	9065	Zhuang
7079	Faeroese	7977	Afan Oromo	9072	Chinese
7082	French	7982	Oriya	9085	Zulu
7089	Frisian	8065	Punjabi		
7165	Irish	8076	Polish		
7168	Scots Gaelic	8083	Pashto, Pushto		
7176	Galician	8084	Portuguese		
7178	Guarani	8185	Ouechua		
7185	Gujarati	8277	Rhaeto-Romance		
7265	Hausa	8278	Kirundi		
7273	Hindi	8279	Romanian		
7282	Croatian	8285	Russian		
7285	Hungarian	8287	Kinya, Rwanda		
7289	Armenian	8365	Sanskrit		
7365	Interlingua	8368	Sindhi		
7375	Knupiak	8371	Sangro		
7378	Indonesian	8372	Serbo-Croatian		
7383	Icelandic	8373	Singhalese		
7384	Italian	8375	Slovak		
7385	Inuktitut (Eskimo)	8376	Slovenian		
7387	Hebrew	8377	Samoan		

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.
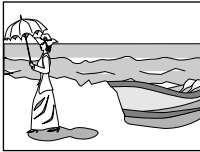
Dolby Digital

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 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

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, 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.

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 enjoy menu-driven operations and 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.

Titles and Chapters (DVD)

A DVD is divided into several titles (large divisions), and each title is divided into chapters (smaller divisions).
These divisions are assigned their particular numbers, so that they are easily accessed.

Tracks (VCD, CD)

VCDs and CDs are divided into tracks. Each track has its own number so that it is easily accessed.

Remote controller
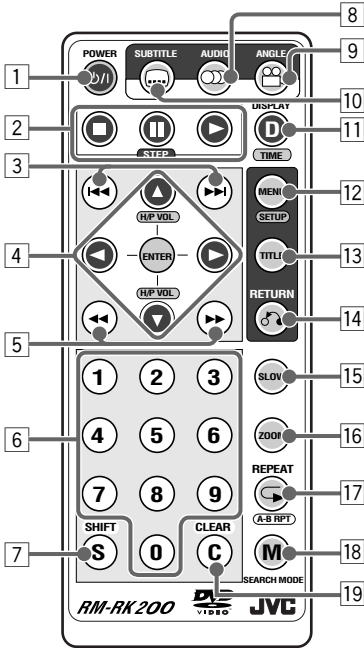
1 **POWER** ⏻/❙ **(standby/on) button**

2 **Disc operation buttons**

■ **(stop),** ❙❙ **(pause) STEP,** ▶ **(play)**

3 **I◀◀ / ▶▶I (reverse search/forward search) buttons**

4 **Menu operation buttons**
   ▲ / ▼ / ◀ / ▶ (cursors), ENTER
   • ▲ / ▼ also function as **H/P VOL** (headphones volume) buttons while pressed with **SHIFT** (**S**) button.

5 **◀◀ / ▶▶ (reverse/fast forward) buttons**

6 **Number buttons**

7 **SHIFT (S) button**

8 **AUDIO** ⊙⊙ **button**

9 **ANGLE** 🎥 **button**

10 **SUBTITLE** ⊡ **button**

11 **DISPLAY (D)/TIME button**
   • Also functions as **TIME** button while pressed with **SHIFT** (**S**) button.

12 **MENU/SETUP button**
   • Also functions as **SETUP** button while pressed with **SHIFT** (**S**) button.

13 **TITLE button**

14 **RETURN** 🔄 **button**

15 **SLOW button**

16 **ZOOM button**

17 **REPEAT** ⤵ **/A-B RPT button**
   • Also functions as **A-B RPT** button while pressed with **SHIFT** (**S**) button.

18 **SEARCH MODE (M) button**

19 **CLEAR (C) button**

Control panel

1 **Slot cover**

2 **Disc loading lamp**
This lamp goes off when the disc type is detected.

3 **Loading slot**

4 **⏏ (eject) button**

5 **OPEN button**

6 **PHONES jack**

7 **⏻/| (standby/on) button and lamp**
The lamp always lights up when the ignition key is on.

8 **Disc lamps (DVD, VCD/CD)**
These lamps indicate the type of the disc loaded.

9 **Remote signal reception lamp**
This lamp flashes when receiving the remote control signals.

10 **► (play) button and lamp**
The lamp lights up when the power is on.

11 **■ (stop) button and lamp**
The lamp lights up when the power is on.

12 **◄◄ (reverse search) button and lamp**
The lamp lights up when the power is on.

13 **►► (forward search) button and lamp**
The lamp lights up when the power is on.

14 **Reset button**

15 **Remote sensor**

TROUBLESHOOTING

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

Symptoms	Causes	Remedies
• Playback cannot start after inserting a disc.	The disc is inserted upside down.	Insert the disc correctly.
• Sound and picture are sometimes interrupted or distorted.	You are driving on rough roads.	Stop playing a disc while driving on rough roads.
	The disc is scratched.	Change the disc.
	Connections are incorrect.	Check the cords and connections.
• Sound cannot be heard from the speakers.	The volume is turned to the minimum level.	Adjust it to the optimum level.
	Connections are incorrect.	Check the cords and connections.
	You are playing a disc with DTS Digital Surround.	This unit cannot output DTS sound without connecting a decoder compatible with DTS Digital Surround.
• No picture appears on the screen.	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 PAN-SCAN (PS)" is selected when viewing on a conventional TV (aspect ratio 4:3).	Select "4:3 LETTERBOX (LB)." (See page 25.)
• No subtitle appears on the display though you have selected the initial subtitle language.	————	Some DVDs are programed to always display no subtitle initially. If this happens, press **SUBTITLE** ⊡ after starting play.
• Audio language is different from the one you have selected as the initial audio language.	————	Some DVDs are programed to always use the original language initially. If this happens, press **AUDIO** ◯◯ after starting play.
• 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 again.
• This unit does not work at all.	The built-in microcomputer may function incorrectly due to noise, etc.	Press the reset button to reset the unit. (See page 2.)

SPECIFICATIONS

AUDIO SECTION

Frequency Response:
DVD, fs=48 kHz:	16 Hz to 22 000 Hz
DVD, fs=96 kHz:	16 Hz to 44 000 Hz
VCD, CD:	16 Hz to 20 000 Hz
Dynamic Range:	93 dB
Signal-to-Noise Ratio:	95 dB
Pickup wave length:	650 nm
Wow and Flutter:	Less than measurable limit

Audio output level:
  Analog (AUDIO L/R):   1.5 Vrms
  Digital (DIGITAL OUT):
    Signal wave length: 660 nm
    Output level: –21 dBm to –15 dBm

VIDEO SECTION

Color system: NTSC
Video output (composite): 1 Vp-p/75 Ω

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 x H x D):
  Unit Size:
        178 mm x 50.5 mm x 167 mm
        (7-1/16" x 2" x 6-5/8")
  Installation Size:
        182 mm x 52 mm x 150 mm
        (7-3/16" x 2-1/16" x 5-15/16")
  Panel Size: 188 mm x 58 mm x 13.4 mm
        (7-7/16" x 2-5/16" x 9/16")
Mass: 1.4 kg (3.1 lbs) (excluding accessories)

Design and specifications subject to change without notice.

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

Output signals through the DIGITAL OUT terminal

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

DIGITAL OUT / Playback Disc		Output Signals		
		STREAM	**LPCM**	**OFF**
DVD	48 kHz, Linear PCM	48 kHz, Linear PCM	48 kHz, Linear PCM	None
	96 kHz, Linear PCM	48 kHz, Linear PCM	48 kHz, Linear PCM	None
	with **Dolby Digital**	Dolby Digital bitstream	Down mix (2 channels)	None
	with **DTS Digital Surround**	DTS bitstream	None	None
Video CD, Audio CD		44.1 kHz, 16 bit Linear PCM	44.1 kHz, 16 bit Linear PCM	None
Auido CD with DTS		DTS bitstream	DTS bitstream	None

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