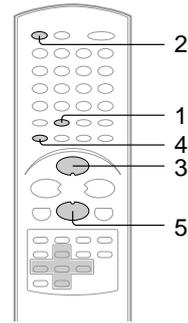




## Recording a DVD/CD disc

You can record disc material in DVD, Audio CD, etc. onto a Video tape with this DVD/VCR.



### Duplicating a DVD or CD disc

#### Preparation:

- Turn ON the TV and select the corresponding video input.
- Press **VCR DVD** selector to select the VCR mode. (The VCR indicator will light.)
- Load a cassette tape with the erase prevention tab intact.
- Load a DVD/CD disc.

#### 1 Press SP/SLP to select the desired tape speed SP or SLP.



#### 2 Press VCR DVD selector to select the DVD mode. The DVD indicator will light.



#### 3 Press PLAY to start playback.



#### 4 Press REC/OTR to start recording.



The DVD/VCR will change to the VCR mode automatically and the playback picture or sound will be duplicated on the video cassette tape.

#### 5 Press STOP if you finish recording.



If you wish to stop a DVD/CD disc, press **VCR DVD** selector to change the DVD mode, then press **STOP**.

#### Notes:

- You may not be able to record the beginning of the disc. Begin VCR recording once program playback commences on the DVD.
- When the scanning mode is set to the progressive mode, you cannot duplicate a disc material onto a video tape. When **REC/OTR** is pressed, the PROGRESSIVE indicator "P" on the display window will flash and "Please Set P Off" will appear on the screen.
- You cannot record discs encoded with copy guard function. The following icon and text will show up on the TV screen.



DISC IS COPY PROTECTED

Other functions (VCR)



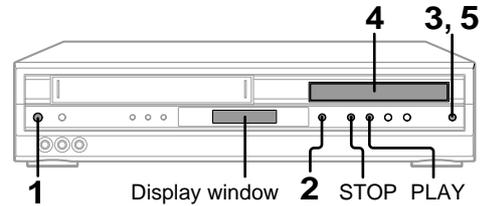
## Basic playback (DVD)

# Playing a disc

This section shows you the basics on how to play a disc.

### CAUTION

Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.



## Basic playback

### Preparations:

- When you want to view a disc, turn on the TV and select the corresponding video input connected to the DVD/VCR. This may include S-video or component video inputs which are exclusive to DVD playback.
- When you want to enjoy the sound of discs from the audio system, turn on the audio system and select the input connected to the DVD/VCR.

**1 Press ON/STANDBY (I / ⏻).**  
ON/STANDBY The DVD/VCR turns on.

**2 Press VCR/DVD SELECT to select the DVD mode.**  
VCR/DVD The DVD indicator will light.  
SELECT

**3 Press OPEN/CLOSE.**  
OPEN/CLOSE The disc tray opens.



**4 Place the disc on the disc tray.**  
With the playback side down

- There are two different disc sizes. Place the disc in the correct guide on the disc tray. If the disc is out of the guide, it may damage the disc and cause the DVD/VCR to malfunction.
- Do not place a disc which is unplayable in this DVD/VCR.

**5 Press OPEN/CLOSE or PLAY on the unit.**  
OPEN/CLOSE PLAY The disc tray closes automatically. On the TV-screen, "▲" changes to "Reading" and then playback commences.  
 OR

- A menu screen will appear on the TV screen, if the disc has a menu feature.



**6 Press ▲/▼ or ◀/▶ to select title.**

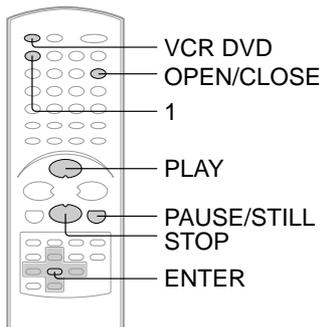
**7 Press ENTER.**  
• Title is selected and play commences.

**8 Press STOP to end playback.**  
STOP • The unit records the stopped point, depending on the disc. "■" appears on the screen. Press **PLAY** to resume playback (from the scene point).  
 • If you press **STOP** again or unload the disc ("■" appears on the screen.), the unit will clear the stopped point.

### ■ To start playback in the stop mode

Press **PLAY**.





### ■ To obtain a higher quality picture

Occasionally, some picture noise not usually visible during a normal broadcast may appear on the TV screen while playing a DVD video disc because the high resolution pictures on these discs include a lot of information. While the amount of noise depends on the TV you use with this DVD/VCR, you should generally reduce the sharpness adjustment on your TV when viewing DVD video discs.

### ■ About

The icons on the heading bar show the playable discs for the function described under that heading.

: You can use this function with DVD video discs.

: You can use this function with Video CDs.

: You can use this function with Audio CDs and CD-R/RW CDs.

### ■ To pause playback (still mode)

Press **PAUSE/STILL** during playback.

**PAUSE/STILL**



To resume normal playback, press the **PLAY** button.

- The sound is muted during still mode.

### ■ To stop playback

Press **STOP**.



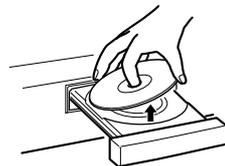
### ■ To remove the disc

Press **OPEN/CLOSE**.

**OPEN/CLOSE**



Remove the disc after the disc tray opens completely.



Be sure to press the **OPEN/CLOSE** button to close the disc tray after you remove the disc.

### ■ Playing a Disc while the VCR section is recording or standing by for timer recording

- 1) Start to record.  
Follow steps 1~5 on page 34.  
• If the DVD/VCR is standing by for recording, turn on the DVD/VCR.
- 2) Press **VCR DVD** selector to select DVD mode. The DVD indicator will light.
- 3) Play a disc.  
Follow steps 3 ~ 5 on page 42.  
• Press **PLAY** if the DVD/VCR does not start to play a disc automatically.
- 4) Stop to play.  
Press **STOP** to stop play back a disc.

### ■ Screen saver function

The screen saver operates when you leave the unit in DVD stop mode for about five minutes. The screen will repeatedly get dark gradually and back to normal.

### ■ To turn off the PBC

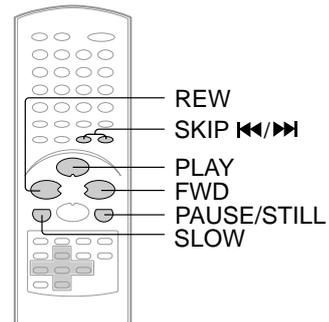
Press number button 1 in the stop mode, then press **ENTER**.

### Notes:

- If a non-compatible disc is loaded, "Incorrect Disc", "Region Code Error" or "Parental Error" will appear on the TV screen according to the type of loaded disc. In this case, check your disc again (See pages 8 and 61).
- Some discs may take a minute or so to start playback.
- When you set a single-faced disc label downwards (ie. the wrong way up) and press the **OPEN/CLOSE** button or the **PLAY** button on the unit, "Reading" will appear on the display for 30 seconds and then "Incorrect Disc" will continue to be displayed.
- Some discs may not work the resuming facility.
- Resuming cannot function when you play a PBC-featured Video CD while the PBC is on. To turn off the PBC, see above.
- Some playback operations of DVDs may be intentionally fixed by software producers. Since this unit plays DVDs according to the disc contents the software producers designed, some playback features may not be available. Also refer to the instructions supplied with the DVDs.
- Do not move the DVD/VCR during playback. Doing so may damage the disc.
- Use the **OPEN/CLOSE** button to open and close the disc tray. Do not push the disc tray while it is moving. Doing so may cause the DVD/VCR to malfunction.
- Do not push up on the disc tray or put any objects other than discs on the disc tray. Doing so may cause the DVD/VCR to malfunction.
- In many instances, a menu screen will appear after playback of a movie is completed. Prolonged display of an on-screen menu may damage your television set, permanently etching that image onto its screen. To avoid this, be sure to press the **ON/STANDBY** (I / ⏻) button on your remote control once the movie is completed.
- There may be a slight delay between you pressing the button and the function activating.

## Playing a disc (continued)

You can play discs at various speeds.



### DVD VCD CD Playing in fast reverse or fast forward directions

Press REW or FWD during playback.



**REW:** Fast reverse playback  
**FWD:** Fast forward playback

Each time you press the REW or FWD button, the playback speed changes.

#### To resume normal playback

Press **PLAY**.



#### Notes:

- The DVD/VCR mutes sound and subtitles during reverse and forward scan of DVD video discs. However, the DVD/VCR plays sound during fast forward or fast reverse play of audio CDs.
- The playback speed may differ depending on the disc.

### DVD VCD Playing frame by frame

Press PAUSE/STILL during still playback.

PAUSE/STILL



Each time you press the PAUSE/STILL button, the picture advances one frame.

#### To resume normal playback

Press **PLAY**.



#### Note:

- The sound is muted during frame by frame playback.

### DVD VCD Playing in slow-motion

Press SLOW during playback.

SLOW



Each time you press the SLOW button, the slow-motion speed changes.

#### To resume normal playback

Press **PLAY**.



#### Note:

- The sound is muted during slow-motion playback.

### DVD VCD CD Locating a chapter or track

Press SKIP I◀◀ or ▶▶I repeatedly to display the chapter or track number you want.

Playback starts from the selected chapter or track.



To locate succeeding chapters or tracks.



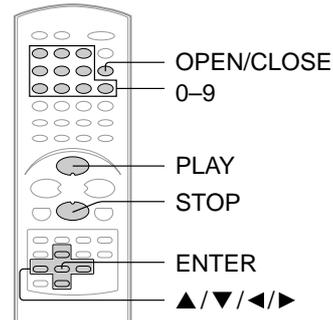
Playback starts from the beginning of the current chapter or track. When you press twice in quick successions, playback starts from the beginning of the preceding chapter or track.

#### Notes:

- A "Prohibition" symbol  may appear at the upper left of the screen. This symbol means either the feature you tried is not available on the disc, or the DVD/VCR cannot access the feature at this time. This does not indicate a problem with the DVD/VCR.
- The unit is capable of holding a still video image or On screen display image on your television screen indefinitely. If you leave the still video image or On screen display image displayed on your TV for an extended period of time, you risk permanent damage to your television screen. Projection televisions are very susceptible.

# MP3/WMA/JPEG playback

This player can play back the MP3/WMA/JPEG-data which has been recorded on CD-R or CD-RW. To produce the MP3/WMA/JPEG-data, you need a Windows-PC with CD-ROM drive and a MP3/WMA/JPEG-encoding Software (not supplied).  
The Apple-HFS-System cannot be played.



## MP3/WMA playback

**1 Press OPEN/CLOSE.**  
**OPEN/CLOSE** The disc tray will open. Place a disc on which MP3 or WMA files have been recorded onto the tray.

**2 Press OPEN/CLOSE or PLAY.**  
**OPEN/CLOSE** The disc tray closes automatically. On the TV-screen, "Reading" will appear. Reading will take as much time as the number of file.

**PLAY**

**3 A file menu screen will appear on the TV screen. Press < or > to select folder.**

1	Japan	8	flower
2	Bay Bridge	9	Lies and Truth
3	CLOSE MY EYES	10	winter fall
4	DIVE TO BLUE	11	Rain
5	Honey	12	Strawberry
6	BLUE EYES	13	Welcome party
7	Blurry Eyes	14	Thailand

**4 Press ▲/▼ or ◀/▶ or Number keys to select the desired file, then press ENTER.**  
 The file is selected and play commences.

In case the folder includes more than 15 tracks, press ◀ or ▶ to display next file list.

When **PLAY** has been pressed after displaying the file menu, or when the disc tray has been closed after pressing **PLAY** in step 2, playback begins automatically starting from the first file. In this case, if the first file is an MP3/WMA file, only MP3/WMA files are played back in order. If the first file is a JPEG file, the first JPEG file is played back.

**5 Press STOP to end playback.**

**PLAY**

**STOP**

- The unit records the stopped point. "■" appears on the screen. Press **PLAY** to resume playback (from the scene point).
- If you press **STOP** again or unload the disc, the unit will clear the stopped point.

**MP3/WMA/JPEG CD Information**

**Limitations on MP3/WMA/JPEG CD playback**

- MP3/WMA/JPEG CD is the disc that is standardized by ISO9660, its file name must include 3-digits extension letters, "mp3", "wma", "jpg".
- The directory and file names of the MP3/WMA/JPEG CD must be correspond to the ISO standardized files.
- This unit can read 200 files per disc. If a disc has more than 200 files, it reads up to 200 files, the remaining files will be omitted.
- The unit is able to recognize up to a maximum of 50 directories per disc.
- MP3/WMA CDs cannot be used for playback for the purpose of recording.
- If the CD has both audio tracks and MP3/WMA/JPEG files, only audio tracks are played.
- It may take more than one minute for this unit to read MP3/WMA/JPEG files depending on its structure.
- Music recorded by "Joliet Recording Specification" can be played back, the file name is displayed (within 16 letters) on the screen. Long file names will be condensed.
- The music files recorded by "Hierarchical File System" (HFS) cannot be played.
- The unit can play back baseline and progressive JPEG files.

**Limitations on display**

- The maximum number for display is 16 letters. Available letters for display are the following: capital or small alphabets of A through Z, numbers of 0 through 9, and \_ (under score).
- Other letters than those above are replaced in hyphen.

**Notes on MP3/WMA/JPEG files**

To play back MP3/WMA/JPEG CD in the recorded order,

- Use MP3/WMA/JPEG software that records data alphabetically or numerically.
- Name each file including two-digit or three-digit number (e.g. "01" "02" or "001" "002").
- Refrain from making too many sub-folders.

WMA disc compatibility with this player is limited as follows:

- Sampling Frequency: within 32 -- 48 kHz
- Bit Rate: within 48 -- 192kbps.  
Mono WMA files and WMA files (under 48kbps) cannot be played back on this player.

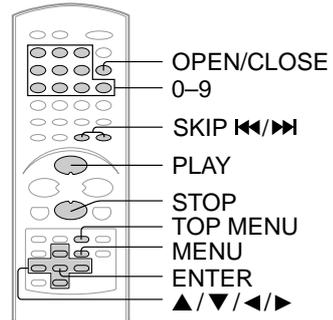
**CAUTION:**

- Some MP3/WMA/JPEG CDs cannot be played back depending on the recording conditions.
- The CD-R/RW that has no music data or non-MP3/WMA/JPEG files cannot be played back.

Advanced playback (DVD)

## MP3/WMA/JPEG playback (continued)

You can select your desired JPEG file on the file menu and picture menu. The selected JPEG file is automatically adjusted to the TV screen. (When the aspect ratio of the JPEG file is different to your TV screen, the black bar will appear at the top and bottom, or the both sides of the TV screen.)



### CD JPEG CD playback

**1 Press OPEN/CLOSE.**  
 The disc tray will open. Place a disc on which JPEG files have been recorded onto the tray.

**2 Press OPEN/CLOSE or PLAY.**  
 The disc tray closes automatically. On the TV-screen, "Reading" will appear. Reading will take as much time as the number of file.

**5 Press ENTER.**  
 The selected picture appears on the TV screen.

**6 Press STOP to end playback.**  
 The file menu appears on the TV screen. If you want to watch the other file, repeat steps 4-5.

**3 A file menu screen will appear on the TV screen. Press ◀ or ▶ to select folder.**

**4 Press ▲/▼ or ◀/▶ or Number keys to select the desired file.**

**To display a picture menu, press MENU. (To return to a file menu, press TOP MENU.) Press ▲/▼ or ◀/▶ to select the desired file.**

- To display next list, press **SKIP ▶▶▶** or **◀◀◀**.
- When **PLAY** has been pressed after displaying the file menu, or when the disc tray has been closed after pressing **PLAY** in step 2, playback begins automatically starting from the first file. In this case, if the first file is a JPEG file, the first JPEG file is played back. If the first file is an MP3/WMA file, only MP3/WMA files are played back in order.

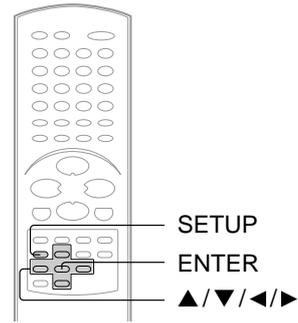
**Notes:**

- The picture menu is displayed when the FUJICOLOR CD or the Kodak Picture CD are played. To display the file menu press **TOP MENU**.
- During MP3/WMA/JPEG-Playback, you can not use SEARCH, A-B Repeat functions.
- You can use Repeat (Track or All), Random functions and Program playback for MP3/WMA/JPEG CD Playback. (See pages 52 and 53.)
- In the case of a CD containing a mixture of MP3, WMA and JPEG files, the files are played back by selecting them from the file menu.

**File menu information**

: Indicates MP3 file  
 : Indicates WMA file  
 : Indicates JPEG file

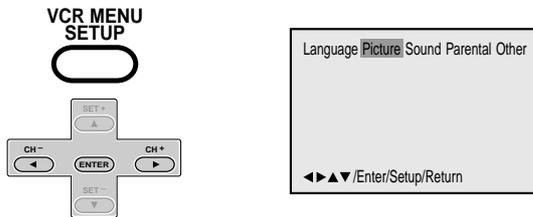
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## CD Setting the JPEG Interval

You can continuously play back all JPEG files automatically. After the setting below, start playing the disc on which JPEG files have been recorded.

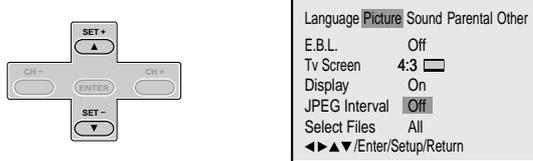
**1** Press **SETUP** in the stop mode. Press **◀** or **▶** to select "Picture", then press **ENTER**.



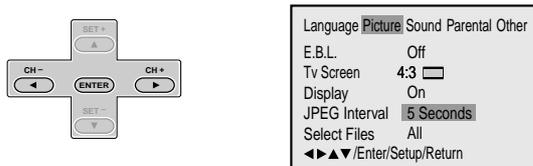
**4** To make **SETUP** screen disappear, press **SETUP**.



**2** Press **▲** or **▼** to select "JPEG Interval".



**3** Press **ENTER** or **◀/▶** to select your desired time.



**Off:**  
Plays back one file at a time.

**5 Seconds:**  
Plays back images in the form of a slide show at 5 second intervals.

**10 Seconds:**  
Plays back images in the form of a slide show at 10 second intervals.

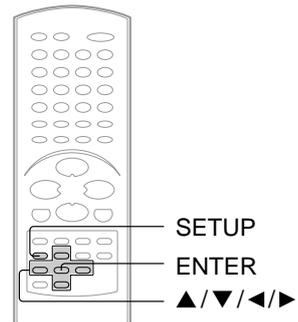
**15 Seconds:**  
Plays back images in the form of a slide show in 15 second intervals.



Advanced playback (DVD)



# MP3/WMA/JPEG playback (continued)

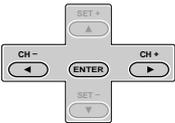
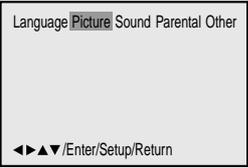


## CD Setting the Select Files

When playing back a CD containing a mixture of MP3, WMA and JPEG files, only MP3/WMA or JPEG files can be displayed on the file menu.

**1** Press **SETUP** in the stop mode. Press **◀** or **▶** to select "Picture", then press **ENTER**.

VCR MENU  
SETUP

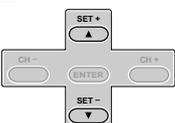
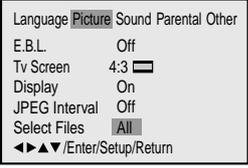
◀▶▲▼/Enter/Setup/Return

**4** To make **SETUP** screen disappear, press **SETUP**.

VCR MENU  
SETUP

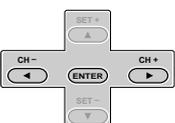
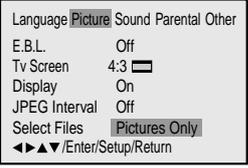


**2** Press **▲** or **▼** to select "Select Files".

◀▶▲▼/Enter/Setup/Return

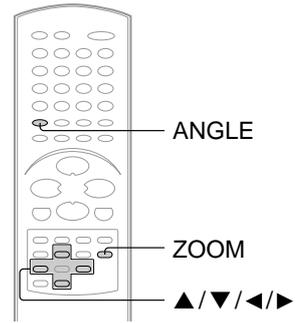
**3** Press **ENTER** or **◀/▶** to select your desired file type.

◀▶▲▼/Enter/Setup/Return

**All:**  
Displays all files.  
**Music Only:**  
Displays only MP3/WMA files.  
**Pictures Only:**  
Displays only JPEG files.

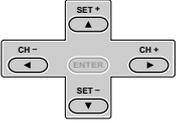




## CD Zooming (JPEG CD)

This unit will allow you to zoom in on the JPEG image.

**1 Press ZOOM during playback.**  
**CM SKIP ZOOM**  
 Enlarged JPEG images are displayed. You can make the images even larger by repeatedly pressing **ZOOM**.

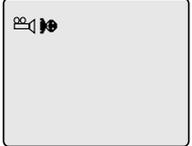
**2 Press ▲ / ▼ / ◀ / ▶ to view a different part of the frame.**  
 You may move the frame from the centre position to UP, DOWN, LEFT or RIGHT direction.

**3 In the zoom mode press ZOOM repeatedly to return to a 1:1 view (Q Off).**  
**CM SKIP ZOOM**  


Diagram showing zoom levels: Q1 (up arrow), Q2 (down arrow), Q Off (up arrow), Q3 (down arrow).

## CD Changing angles (JPEG CD)

You can display JPEG images rotating at 90 degree intervals.

**1 Press ANGLE during playback.**  
**Images are rotated 90 degrees to the right.**  
**COUNTER RESET ANGLE**  
 

**2 Press ANGLE repeatedly until the desired angle is selected.**  
**Pressing ANGLE four times returns the image to its original angle.**  
**COUNTER RESET ANGLE**  

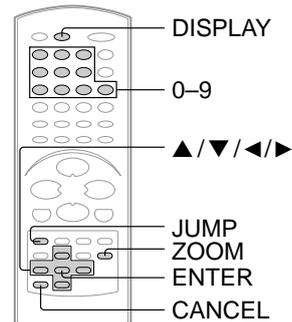

- Images are displayed at the same angle until the disc is removed.



Advanced playback (DVD)



## Zooming/Locating desired scene



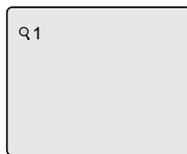
### DVD VCD Zooming

This unit will allow you to zoom in on the frame image. You can then make selections by switching the position of the frame.

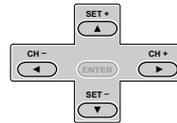
#### 1 Press ZOOM during playback.



The centre part of the image will be zoomed in. Each press of **ZOOM** will change the ZOOM Q1 (x 1.3), Q2 (x 1.5) and Q3 (x 2.0).



#### 2 Press ▲/▼/◀/▶ to view a different part of the frame.



You may move the frame from the centre position to UP, DOWN, LEFT or RIGHT direction.

#### 3 In the zoom mode press ZOOM repeatedly to return to a 1:1 view (Q Off).



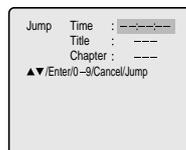
#### Notes:

- You can select the Pause, Slow or Search playback in the zoom mode.
- Some discs may not respond to zoom feature.

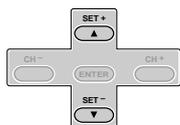
### DVD VCD CD Locating desired scene

Use the title, chapter and time recorded on the disc to locate the desired point to play back. To check the title, chapter and time, press **DISPLAY**.

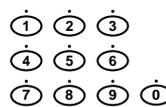
#### 1 Press JUMP during playback or stop mode.



#### 2 Press ▲ or ▼ to select the "Time", "Title" or "Chapter".

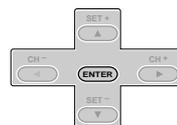


#### 3 Press Numbered buttons (0-9) to change the number.



- If you input a wrong number, press **CANCEL**.
- Refer to the package supplied with the disc to check the numbers.

#### 4 Press ENTER. Playback starts.



- When you change the title, playback starts from Chapter 1 of the selected title.
- Some discs may not work in the above operation.

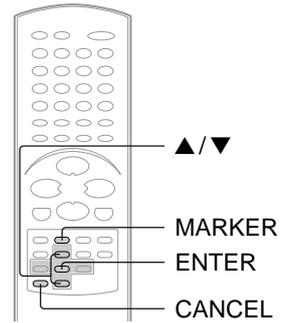
#### Note:

In case of the Video-CD playback with PBC, the JUMP does not work. To turn off PBC, see page 43.



## Marking desired scenes

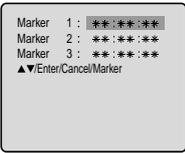
The unit stores the points that you want to watch again up to 3 points. You can resume playback from each scene.

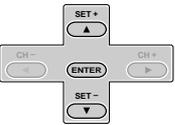


### DVD VCD Marking the scenes

- 1 Press MARKER during playback.**

MARKER



- 2 Select the blank Marker using ▲ or ▼. Then press ENTER at the desired scene.**

  - Repeat this procedure to set the other 2 scenes.

- 3 Press MARKER to remove this display.**

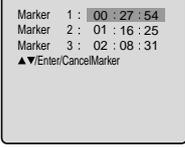
MARKER

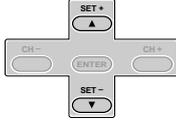
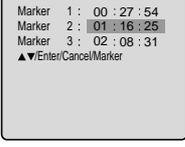


### DVD VCD Returning to the scenes

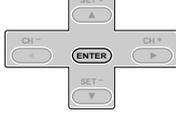
- 1 Press MARKER during playback or stop mode.**

MARKER



- 2 Press ▲ or ▼ to select the Marker 1-3.**



- 3 Press ENTER.**

Playback starts from the marked scene.



#### ■ To cancel the Marker

Follow the above steps 1~2, then press **CANCEL**.

#### Notes:

- Some discs may not work with the marking operation.
- The marking is canceled when you open the disc tray or turn the power off.
- Some subtitles recorded around the marker may fail to appear.

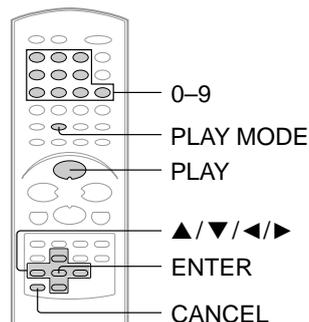
Advanced playback (DVD)





# Program playback/Random playback (CD)

You can arrange the order of tracks on the disc.



## VCD CD Program playback

**1** Press **PLAY MODE** in the stop mode.

SP/SLP  
PLAY MODE

Play Mode	: Off
Repeat	: Off
◀▶▲▼/Enter/Play Mode	

**2** Press **▲** or **▼** to select **Play Mode**, then press **◀/▶** or to select **"Program"**.

Play Mode	: Program		
Repeat	: Off		
1	4	7	10
2	5	8	11
3	6	9	12
Clear	Program Playback		
◀▶▲▼/Enter/0-9/Cancel/Play Mode			

**3** Press **▲/▼** or **◀/▶** to select the programming position. Use Numbered buttons (0-9) to input the Track numbers.

- To program others, repeat Step 3.
- If you input a wrong number, press **CANCEL**.

Play Mode	: Program			
Repeat	: Off			
1	9	4	7	10
2	3	5	8	11
3	11	6	9	12
Clear	Program Playback			
◀▶▲▼/Enter/0-9/Cancel/Play Mode				

**4** Press **▲/▼** or **◀/▶** to select **"Program Playback"** and press **ENTER**.

The programmes you selected will start to playback in the order.  
To return to normal playback, select Play Mode: "Off".

Play Mode	: Program			
Repeat	: Off			
1	9	4	7	10
2	3	5	8	11
3	11	6	9	12
Clear	Program Playback			
◀▶▲▼/Enter/0-9/Cancel/Play Mode				

**To cancel program playback**  
Select **"Clear"** and press **ENTER**.

- The program is canceled when you open the disc tray or turn the power off.

**Note:**  
In playing back the Video CD with PBC, you cannot set Program playback.

## VCD CD Random playback

**1** Press **PLAY MODE** in the stop mode.

SP/SLP  
PLAY MODE

**2** Press **▲/▼** to select **Play Mode**, then press **◀/▶** to select **"Random"**.

Play Mode	: Random
Repeat	: Off
◀▶▲▼/Enter/Play Mode	

**3** Press **PLAY**.

The Random Playback will start.

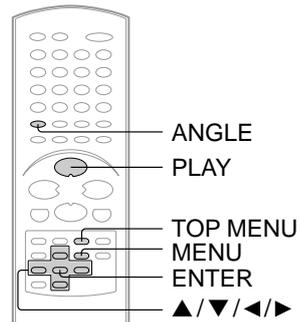
**Note:**  
In playing back the Video CD with PBC, you cannot set Random playback.

Advanced playback (DVD)





# Changing angles/Title selection/DVD menu

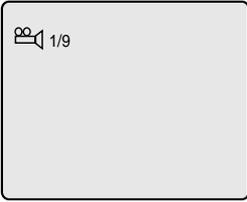


## DVD Changing angles

When playing back a disc recorded with multi-angle facility, you can change the angle that you are viewing the scene from.

**1 Press ANGLE during playback.**  
The current angle will appear.

COUNTER RESET ANGLE

**2 Press ANGLE repeatedly until the desired angle is selected.**

COUNTER RESET ANGLE



**Note:**  
Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.

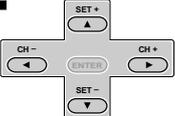
## DVD Title selection

Two or more titles are recorded on some discs. If the title menu is recorded on the disc, you can select the desired title.

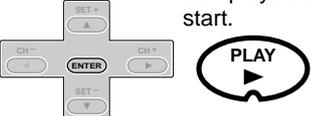
**1 Press TOP MENU during playback.**  
TOP MENU Title menu appears on the screen.



**2 Press ▲/▼ or ◀/▶ to select the desired title.**



**3 Press ENTER or PLAY.**  
The playback of the selected title will start.



**Note:**  
Depending on the DVD, you may not be able to select the title. Depending on the DVD, a "title menu" may simply be called a "menu" or "title" in the instructions supplied with the disc.

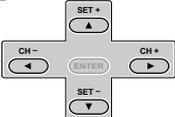
## DVD menu

Some DVDs allow you to select the disc contents using the menu. When you play back these DVDs, you can select the subtitle language and sound-track language, etc. using the menu.

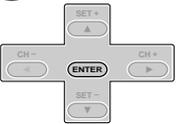
**1 Press MENU during playback.**  
MENU The DVD menu appears on the screen.

- Press **MENU** again to resume playback at the scene when you pressed **MENU**.

**2 Press ▲/▼ or ◀/▶ to select the desired item.**



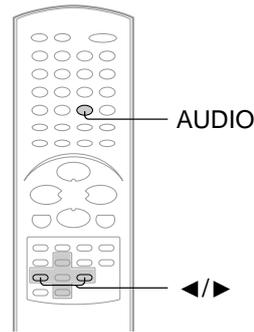
**3 Press ENTER.**  
The menu continues to another screen. Repeat steps 2 and 3 to set the item completely.



**Note:**  
Depending on the DVD, you may not be able to resume playback from the scene point when you pressed **MENU**.



# Changing soundtrack language/ Setting surround sound



## DVD VCD Changing soundtrack language

You can select the language when you play a multilingual disc.

**1 Press AUDIO during playback.**  
**AUDIO SELECT** The current soundtrack language will appear.  
  


**2 Press AUDIO repeatedly until the desired language is selected.**  
**AUDIO SELECT** The on-screen display will disappear after a few seconds.  
  


### In case of Video CD playback

Audio type changes as follows each time you press **AUDIO**.



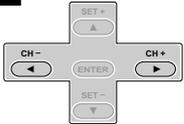
### Notes:

- If the desired language is not heard after pressing the button several times, the language is not recorded on the disc.
- Changing soundtrack language is canceled when you open the disc tray. The initial default language or available language will be heard if the disc is played back again.

## DVD VCD CD Setting surround sound

This DVD/VCR equipped with a "SPATIALIZER VIRTUAL SURROUND". It can produce the effect of being in a cinema or a concert hall.

**1 During disc playback press AUDIO.**  
**AUDIO SELECT**  
  


**2 Press ◀ or ▶ to select "On".**  
  


### To cancel Surround mode:

Follow the left steps 1~2, then press ◀ or ▶ to select the "Off" position.

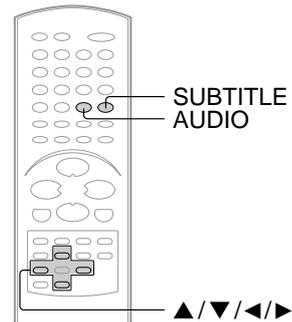
### Note:

The "SPATIALIZER VIRTUAL SURROUND" is effective only for the sound of disc.

Certain audio features of this product manufactured under a license from Desper Products, Inc. *Spatializer*® and the circle-in-square device are trademarks owned by Desper Products, Inc.

Function setup (DVD)

## Setting subtitles/Karaoke playback



### DVD Turning the subtitles on and off

When playing back a disc recorded with subtitles, you can turn the subtitles on or off.

Press **SUBTITLE** during playback until "Off" appears.



**Note:**

Depending on the DVD, you may not be able to turn the subtitles on even if they are recorded on it. Depending on the DVD, you may not be able to turn the subtitles off.

### DVD Changing the subtitle language

You can select the language when playing back a disc recorded with multi-lingual subtitles.

**1** Press **SUBTITLE** repeatedly during playback until your desired language appears.



**Notes:**

- Changing subtitle language is canceled when you open the disc tray.
- Depending on the DVD, you may not be able to change the subtitles even if multilingual subtitles are recorded on it. While playing the DVD, the subtitle may change when: -you open or close the disc tray -you change the title.
- In some cases, the subtitle language is not changed to the selected one immediately.

### DVD Karaoke playback

You can turn the vocal on or off recorded on the DVD KARAOKE.

**1** During DVD KARAOKE disc playback, press **AUDIO**.

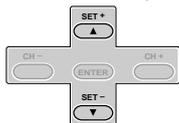


**Notes:**

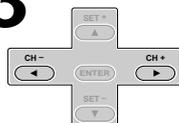
- The vocal output feature is used during playback of Dolby Digital (multi-channel) recorded DVD KARAOKE discs. This feature allows you to turn off vocal audio tracks, or restore them for background accompaniment.
- When playing Karaoke, connect appropriate audio equipment such as an amplifier to the DVD/VCR.

**2** Press **▲** or **▼** until the **KARAOKE** symbol (🎤) appears.

- If you play non-Karaoke disc, the KARAOKE symbol (🎤) does not appear.



**3** Press **◀** or **▶** to select "On" or "Off".

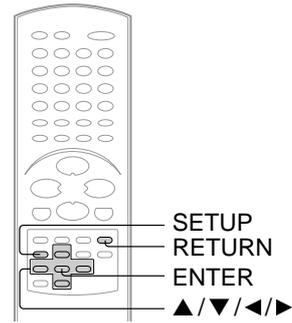


- On** : The primary vocal is output when it is recorded on the disc.
- Off** : The primary vocal is not output.



# E.B.L. (Enhanced Black Level)

To select the black level of playback pictures, set your preference and monitor's ability.



## DVD Setting E.B.L.

**1** Press **SETUP** in the stop mode or No Disc. Press **◀** or **▶** to select "Picture".

VCR MENU  
SETUP

Language **Picture** Sound Parental Other

◀▶▲▼/Enter/Setup/Return

**4** To make **SETUP** screen disappear, press **SETUP** or **RETURN** while the **SETUP** screen is being displayed.

VCR MENU  
SETUP

RETURN

**2** Press **▼** or **ENTER**, then press **▲** or **▼** to select "E.B.L.".

Language **Picture** Sound Parental Other

E.B.L. **Off**

Tv Screen 4:3

Display On

JPEG Interval Off

Select Files All

◀▶▲▼/Enter/Setup/Return

**3** Press **◀/▶** or **ENTER** to select "On" or "Off".

Language **Picture** Sound Parental Other

E.B.L. **On**

Tv Screen 4:3

Display On

JPEG Interval Off

Select Files All

◀▶▲▼/Enter/Setup/Return

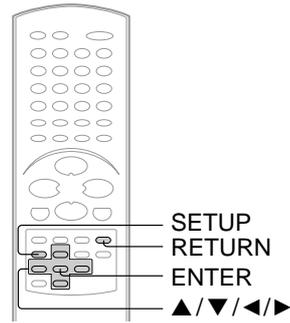
**On:** Enhanced grey scale (0 IRE cut off)  
**Off:** Standard grey scale (7.5 IRE cut off)

Function setup (DVD)



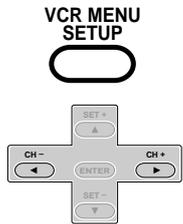
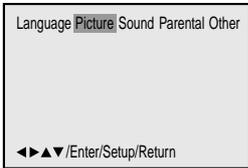
# Setting the aspect ratio of TV screen

You can select the aspect ratio for your TV.  
The following pages describe the setup/operation in DVD mode.

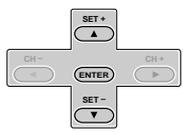
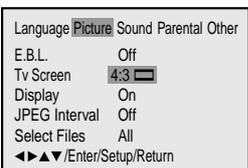


## DVD Setting the aspect ratio of TV screen

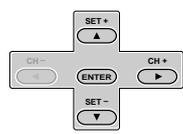
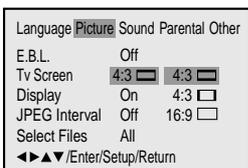
**1** Press **SETUP** in the stop mode or **No Disc**. Press **◀** or **▶** to select "Picture".

**2** Press **▼** or **ENTER**, then press **▲** or **▼** to select "Tv Screen".

**3** Press **▶** or **ENTER**. Press **▲** or **▼** to select your desired screen type, then press **ENTER**.

You have the following screen sizes to choose from:

**4:3**  **Letter box:**  
Select this mode when connecting to a conventional TV. When playing back a wide screen-DVD disc, it displays the wide picture with black bands at the top and bottom of screen.

**4:3**  **Pan scan:**  
It displays the wide picture on the whole screen with left and right edges automatically cut off.

**16:9**  **Wide:**  
Select this mode when connecting to a wide-screen TV. A wide screen picture is displayed full size.

**4** To make **SETUP** screen disappear, press **SETUP** or **RETURN** while the **SETUP** screen is being displayed.

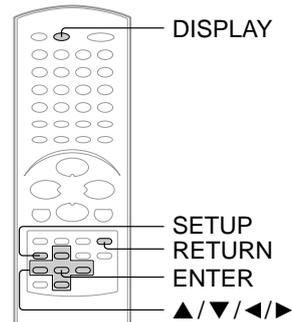


**Note:**  
If the DVD disc is not formatted in the pan & scan style, it displays 4:3 style.





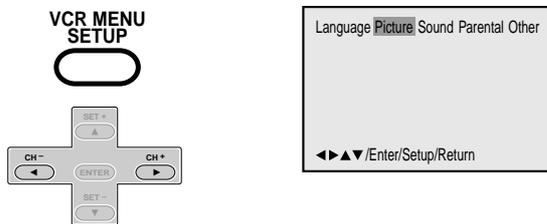
# Setting on screen display/Status display of disc



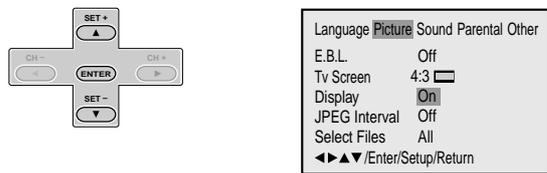
## DVD Setting on screen display

On screen display can be switched on or off when you press the buttons.

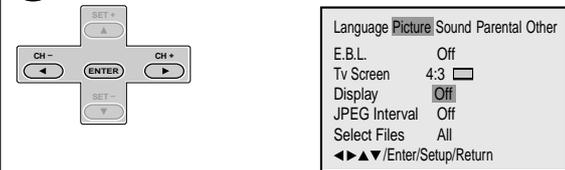
**1** Press **SETUP** in the stop mode or **No Disc**. Press **◀** or **▶** to select "Picture".



**2** Press **▼** or **ENTER**, then press **▲** or **▼** to select "Display".



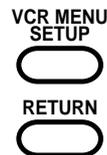
**3** Press **◀/▶** or **ENTER** to select "On" or "Off".



**On:** On screen displays appear when you press the buttons (factory setting).

**Off:** On screen displays do not appear when you press any buttons.

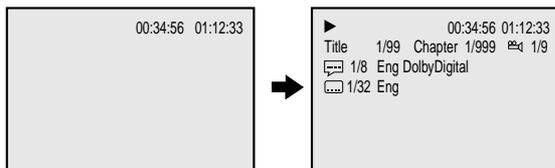
**4** To make **SETUP** screen disappear, press **SETUP** or **RETURN** while the **SETUP** screen is being displayed.



## DVD VCD CD Status display of disc

Each press of **DISPLAY**, the status display of the disc will appear on the screen and change as follows.

### DVD

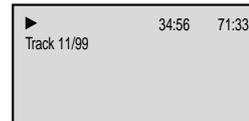


To make status display disappear, press **DISPLAY** again.

### Video CD



### Audio CD



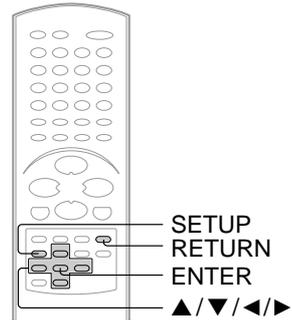
When you playback the CD disc, the status display will appear on the screen and continue displaying.

Function setup (DVD)



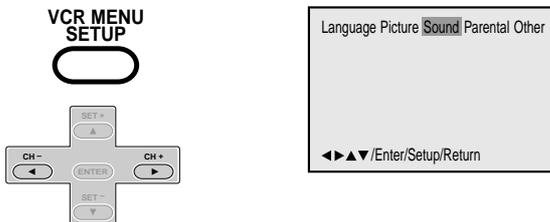
# Dynamic Range Control

DRC (Dynamic Range Control) enables you to control the dynamic range so as to achieve a suitable sound for your equipment.

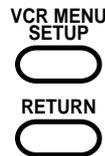


## DVD Dynamic Range Control

**1** Press **SETUP** in the stop mode.  
Press **◀** or **▶** to select "Sound".



**4** To make **SETUP** screen disappear, press **SETUP** or **RETURN** while the **SETUP** screen is being displayed.



**2** Press **▼** or **ENTER** to select "Dialogue".



### Notes:

- This function works only during playback of Dolby Digital recorded discs.
- The level of Dynamic Range Reduction may differ depending on DVD video disc.

**3** Press **▶** or **ENTER**, then press **▲** or **▼** to select desired setting.

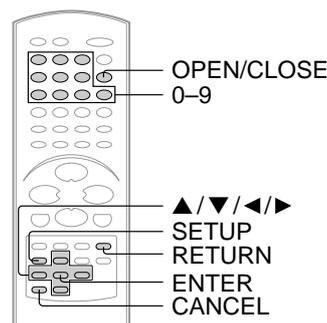


- On:** Loud sound such as explosion or the like is toned down slightly when played back. This makes it suitable for when it is connected to a stereo.
- Off:** It plays back at the recording level on the disc.



# Parental control setting

Some discs are specified not suitable for children. Such discs can be limited not to play back with the unit.



## DVD Parental control setting

**1** Press **SETUP** in the stop mode or No Disc. Press **◀** or **▶** to select "Parental". Then press **▼** or **ENTER**.

VCR MENU  
SETUP

Language Picture Sound **Parental** Other

Password

Parental Off

0-9/Cancel  
◀▶▲▼/Enter/Setup/Return

**4** Press **ENTER** to store the password.

**Note:** Now the rating is locked and the setting cannot be changed unless you enter the correct password.

Language Picture Sound **Parental** Other

Password

Parental 1

0-9/Cancel  
◀▶▲▼/Enter/Setup/Return

**2** Press **▲** or **▼** to select "Parental", then press **◀** or **▶** until the level you require appears.

Language Picture Sound **Parental** Other

Password

Parental 1

◀▶▲▼/Enter/Setup/Return

**5** Press **SETUP** or **RETURN** to remove the parental control screen.

VCR MENU  
SETUP

RETURN

- **Level Off:** The parental control setting does not function.
- **Level 8:** All DVD software can be played back.
- **Level 1:** DVD software for adults cannot be played back.
- Select from the level 1 to level 8. The limitation will be more severe as the level number is lower.

**6** Press **OPEN/CLOSE** to activate parental control setting.

OPEN/CLOSE

**3** Press **▲** or **▼** to select "Password". Press number buttons (0-9) to input a 4-digit password.

Language Picture Sound **Parental** Other

Password

Parental 1

0-9/Cancel  
◀▶▲▼/Enter/Setup/Return

Be sure to remember this number!

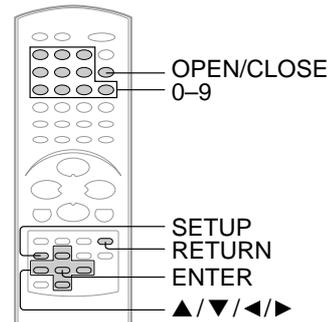
- If you input a wrong number, press **CANCEL**.

**Notes:**

- If each setup (pages 57~66) has been completed, the unit can always be worked under the same conditions (especially with DVD discs). Each setup will be retained in the memory if you turn the power off.
- Depending on the discs, the unit cannot limit playback.
- Some discs may not be encoded with specific rating level information though its disc jacket says "adult". For those discs, the age restriction will not work.

Function setup (DVD)

# To change the parental level



## DVD To change the parental level

**1** Press **SETUP** in the stop mode or No Disc. Press **◀** or **▶** to select "Parental". Then press **▼** or **ENTER**.

VCR MENU  
SETUP

Language	Picture	Sound	Parental	Other
Password	-----			🔒
Parental	1			

0-9/Cancel  
◀▶▲▼/Enter/Setup/Return

**2** Press number buttons (0-9) to enter the password you have stored.

Language	Picture	Sound	Parental	Other
Password	1 2 3 4			🔒
Parental	1			

0-9/Cancel  
◀▶▲▼/Enter/Setup/Return

**3** Press **ENTER**.  
The rating is now unlocked.

Language	Picture	Sound	Parental	Other
Password	-----			🔒
Parental	1			

0-9/Cancel  
◀▶▲▼/Enter/Setup/Return

**4** Press **▲** or **▼** to select "Parental", then press **◀** or **▶** to change the parental level.

Language	Picture	Sound	Parental	Other
Password	-----			🔒
Parental	5			

0-9/Cancel  
◀▶▲▼/Enter/Setup/Return

**5** Press **▲** or **▼** to select "Password", then press number buttons (0-9) to enter the password.

**Note:** You can change the password if you want.

Language	Picture	Sound	Parental	Other
Password	9 8 7 6			🔒
Parental	5			

0-9/Cancel  
◀▶▲▼/Enter/Setup/Return

**6** Press **ENTER**.  
Now the parental level is changed and locked.

Language	Picture	Sound	Parental	Other
Password	-----			🔒
Parental	5			

0-9/Cancel  
◀▶▲▼/Enter/Setup/Return

**7** Press **SETUP** or **RETURN** to remove the parental control screen.

VCR MENU  
SETUP

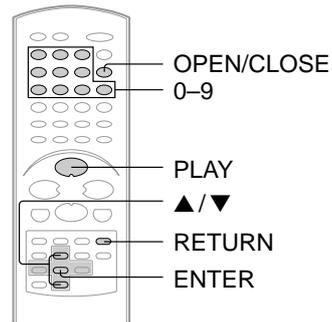
RETURN

- If you forget the password...**
1. Press **OPEN/CLOSE** to open the disc tray.
  2. Remove the disc.
  3. Press **OPEN/CLOSE** again to close the disc tray. "No Disc" appears on the screen.
  4. While holding **7** down on the remote control, press **STOP** on the front panel. "PASSWORD CLEAR" appears on the screen.
  5. Enter a new password again.



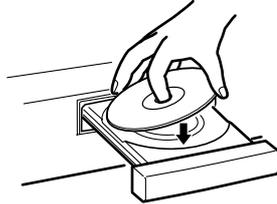
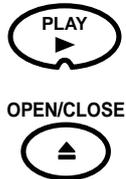
## Temporary disabling of rating level by DVD disc

Depending on the DVD disc, the disc may try to temporarily cancel the rating level that you have set. It is up to you to decide whether to cancel the rating level or not.

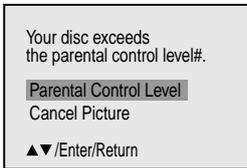


### DVD Temporary disabling of rating level by DVD disc

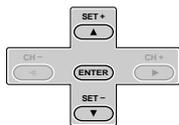
- 1** Load a DVD disc and press **PLAY** or **OPEN/CLOSE** on the unit (see page 42).



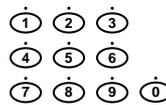
- 2** If the DVD disc has been designed to temporarily cancel the Rating level, the screen which follows the "Reading" screen will change, depending on which disc is played. If you select "YES" with the **ENTER** key, "Your disc exceeds the parental control level#." screen will then appear.



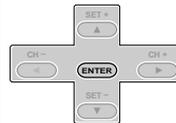
- 3** If you wish to cancel the set rating level temporarily, select "Parental Control Level" with **▲** or **▼**, then press **ENTER**. If the 4-digit password at step 2 on page 62 has been set, the password entering screen will appear as shown in step 4. Alternatively, if the password has not been set, playback will commence. If you don't know (or have forgotten) the password, select "Cancel Picture". The setting screen will disappear. Press **OPEN/CLOSE** to remove the disc.



- 4** Enter the password with number buttons (0-9). Then press **ENTER**.



If you interrupt the entering, press **RETURN**.



- 5** Playback will commence if the entered password was correct.

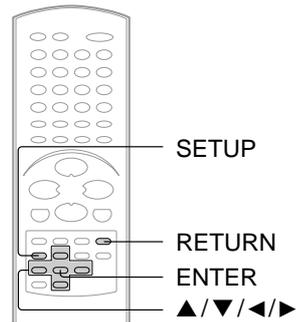
#### Note:

This temporary cancellation of rating level will be kept until the disc is ejected. When the disc is ejected, the original rating level will be set again automatically.

Function setup (DVD)

# Setting OSD language

The setup language can be selected.



## DVD VCD CD Setting OSD language

**1** Press **SETUP** in the stop mode or **NO DISC**. Press **◀** or **▶** to select "Other".

**4** To make **SETUP** screen disappear, press **SETUP** or **RETURN** while the **SETUP** screen is being displayed.

**2** Press **▼** or **ENTER** to select "OSD Language".

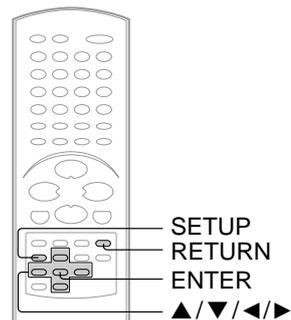
**If the unit does not operate properly:** Static electricity, etc., may affect the player's operation. Disconnect the AC power cord once, then connect it again.

**3** Press **▶** or **ENTER** and then press **▲** or **▼** to select desired language (e.g. English), then press **ENTER**.



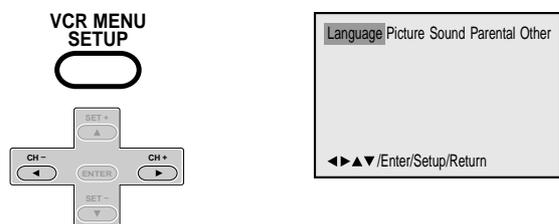
# Setting language

You can select the language of "Menu", "Subtitle" and "Audio" if their languages are recorded onto the disc more than one language.

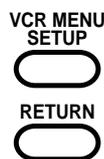


## DVD Setting language

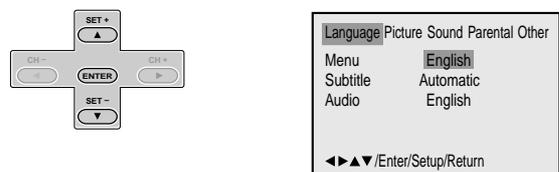
**1** Press **SETUP** in the stop mode or No Disc. Press **◀** or **▶** to select "Language".



**4** To make **SETUP** screen disappear, press **SETUP** or **RETURN** while the **SETUP** screen is being displayed.



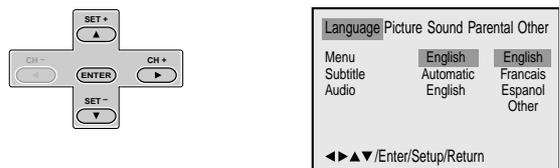
**2** Press **▼** or **ENTER**, then press **▲** or **▼** to select desired language item.



### Note:

If the selected language is not recorded on the disc, the first-priority language is selected.

**3** Press **▶** or **ENTER**. Press **▲** or **▼** to select your desired language, then press **ENTER**.



**English, Francais, Espanol:**  
The selected language will be heard or seen.

**Other:**  
Other language can be selected (see "Language code list" on page 67).

**Original: (Audio)**  
The unit will select the first priority language of each disc.

**Automatic: (Subtitle)**

- The unit will automatically select the same language in the AUDIO setting.
- When the unit selects the same language as the AUDIO, the subtitles will not appear during playback.
- When you do not use the same language as the AUDIO, the subtitles will appear during playback.

**Off: (Subtitle)**  
Subtitles do not appear.

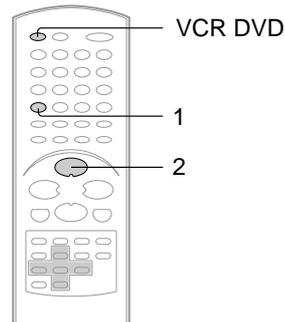
Function setup (DVD)

## Selecting *PROGRESSIVE* scan

The progressive scan capability provides the highest resolution pictures with less flicker and line structure.

If you are using the Component video jacks, but are connecting the DVD/VCR to a standard (analog) television, set **PROGRESSIVE** to Off.

If you are using the Component video jacks for connection to a TV or monitor that is compatible with a progressive scan signal, set **PROGRESSIVE** to On.



### Selecting **PROGRESSIVE** scan

#### Preparation:

- Connect to a TV equipped with component jacks.
- Turn ON the TV and set it to the corresponding video input mode.
- Set the S-VIDEO/COMPONENT video selector switch on the rear panel to COMPONENT position.
- Press **VCR DVD** selector to select the DVD mode. (The DVD indicator will light.)

#### 1 Press **PROGRESSIVE** in the stop mode.

INPUT SELECT  
PROGRESSIVE



The progressive indicator "P" on the display window will light.

- The unit recognizes the picture source (film or video) of the current disc according to the disc information.

#### 2 Press **PLAY** to start playback.



There are two types of source content in pictures recorded in DVD video discs: film content (pictures recorded from films at 24 frames per second) and video content (video signals recorded at 30 frames per second).

When the unit plays back a film source material, uninterlaced progressive output signals are created using the original information. When a video content is played back, the unit interleaves lines between the interlaced lines on each to create the interpolated picture and outputs as the progressive signal.

#### ■ To select **PROGRESSIVE** scan Off

Press **PROGRESSIVE** in the stop mode.

The progressive indicator "P" on the display window will go off.

#### Notes:

- Some discs may not be played back with the progressive scanning mode correctly because of the disc characteristics or recording condition.
- If your TV does not accept the progressive scan format, the picture will appear scrambled if you select progressive scan output from the unit. In such a case, select **PROGRESSIVE** scan Off.
- Once **PROGRESSIVE** scan On, all other video outputs are disabled except component video outputs.
- You cannot make the progressive scanning mode active in following cases.
  - The unit is in the VCR mode.
  - The disc is played back in the DVD mode.
  - The S-VIDEO/COMPONENT video selector switch is set to S-VIDEO position.

## Language code list

Enter the appropriate code number for the initial settings "Menu", "Subtitle" and/or "Audio" (see page 65).

Language Name Code	Language Name Code	Language Name Code	Language Name Code
Abkhazian 1112	Fiji 1620	Lingala 2224	Singhalese 2919
Afar 1111	Finnish 1619	Lithuanian 2230	Slovak 2921
Afrikaans 1116	French 1628	Macedonian 2321	Slovenian 2922
Albanian 2927	Frisian 1635	Malagasy 2317	Somali 2925
Amharic 1123	Galician 1722	Malay 2329	Spanish 1529
Arabic 1128	Georgian 2111	Malayalam 2322	Sundanese 2931
Armenian 1835	German 1415	Maltese 2330	Swahili 2933
Assamese 1129	Greek 1522	Maori 2319	Swedish 2932
Aymara 1135	Greenlandic 2122	Marathi 2328	Tagalog 3022
Azerbaijani 1136	Guarani 1724	Moldavian 2325	Tajik 3017
Bashkir 1211	Gujarati 1731	Mongolian 2324	Tamil 3011
Basque 1531	Hausa 1811	Nauru 2411	Tatar 3030
Bengali; Bangla 1224	Hebrew 1933	Nepali 2415	Telugu 3015
Bhutani 1436	Hindi 1819	Norwegian 2425	Thai 3018
Bihari 1218	Hungarian 1831	Oriya 2528	Tibetan 1225
Breton 1228	Icelandic 1929	Panjabi 2611	Tigrinya 3019
Bulgarian 1217	Indonesian 1924	Pashto, Pushto 2629	Tonga 3025
Burmese 2335	Interlingua 1911	Persian 1611	Turkish 3028
Byelorussian 1215	Irish 1711	Polish 2622	Turkmen 3021
Cambodian 2123	Italian 1930	Portuguese 2630	Twi 3033
Catalan 1311	Japanese 2011	Quechua 2731	Ukrainian 3121
Chinese 3618	Javanese 2033	Rhaeto-Romance 2823	Urdu 3128
Corsican 1325	Kannada 2124	Romanian 2825	Uzbek 3136
Croatian 1828	Kashmiri 2129	Russian 2831	Vietnamese 3219
Czech 1329	Kazakh 2121	Samoan 2923	Volapük 3225
Danish 1411	Kirghiz 2135	Sanskrit 2911	Welsh 1335
Dutch 2422	Korean 2125	Scots Gaelic 1714	Wolof 3325
English 1524	Kurdish 2131	Serbian 2928	Xhosa 3418
Esperanto 1525	Laothian 2225	Serbo-Croatian 2918	Yiddish 2019
Estonian 1530	Latin 2211	Shona 2924	Yoruba 3525
Faroese 1625	Latvian, Lettish 2232	Sindhi 2914	Zulu 3631

## Troubleshooting

Check the following guide for the possible cause of a problem before contacting service.

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
<b>DVD/VCR</b>		
DVD/VCR does not operate.	<ul style="list-style-type: none"> <li>• Make sure the power cord is plugged in.</li> <li>• Try another AC outlet.</li> <li>• Power is off, check fuse or circuit breaker.</li> <li>• Unplug unit, then plug it back in.</li> <li>• Select the DVD or VCR mode before operating.</li> </ul>	5 – – 5 30,42
No picture.	<ul style="list-style-type: none"> <li>• Antenna connection is not correct or antenna cable is disconnected.</li> <li>• The video channel is not in the correct position or the TV is not set to the video channel 3 or 4.</li> <li>• Check the unit is connected correctly.</li> <li>• The video input selector of the TV is not set to VIDEO. Set to VIDEO (or equivalent).</li> <li>• Channel is set to the external mode.</li> </ul>	14~17 22 14~19 – –
No sound.	<ul style="list-style-type: none"> <li>• Check the unit is connected correctly.</li> <li>• Check the input selector of the amplifier is set properly.</li> <li>• The unit is in the Special playback mode.</li> </ul>	14~19 – 31,44
The remote control does not function.	<ul style="list-style-type: none"> <li>• Aim the remote control at the remote sensor.</li> <li>• Operate within Approx. 7 Meters or reduce the light in the room.</li> <li>• Clear the path of the beam.</li> <li>• The batteries are weak. Replace the batteries.</li> <li>• Check the batteries are inserted correctly.</li> </ul>	13
No Cable TV reception.	<ul style="list-style-type: none"> <li>• Check all Cable TV connections.</li> <li>• Station or Cable TV system problems, try another station.</li> </ul>	16,17
<b>VCR</b>		
TV recording does not work.	<ul style="list-style-type: none"> <li>• The erase prevention tab of the video cassette is broken off.</li> <li>• The unit is in the external input mode.</li> </ul>	29,34
Timer recording does not work.	<ul style="list-style-type: none"> <li>• The time is not set correctly.</li> <li>• The recording start/end time is not set correctly.</li> <li>• The TIMER REC has not been pressed (⏻ is not lit).</li> </ul>	24 37 37
Noise bars on screen.	<ul style="list-style-type: none"> <li>• Tracking adjustment beyond range of automatic tracking circuit. Try Manual tracking adjustment.</li> <li>• Video heads are dirty.</li> <li>• The tape is worn or damaged.</li> </ul>	31 31 –
<b>DVD</b>		
Display is not shown in your language.	<ul style="list-style-type: none"> <li>• Select proper language in the menu options.</li> </ul>	64
Playback doesn't start.	<ul style="list-style-type: none"> <li>• No disc is inserted.</li> <li>• The disc may be dirty. Clean up the disc.</li> <li>• The unit cannot play DVD-ROMs, etc.</li> </ul>	42 7 8
Stopping playback, slow-motion play, repeat play, or memory play, etc. cannot be performed.	<ul style="list-style-type: none"> <li>• Some discs may not do some of the functions.</li> </ul>	–
No picture, or the screen is blurred or divided into two parts.	<ul style="list-style-type: none"> <li>• The S-VIDEO/COMPONENT selector is not set correctly.</li> <li>• The PROGRESSIVE scan is On through the unit is connected to a TV via the VIDEO OUT or the S-VIDEO OUT jack.</li> </ul>	19 66
No 4:3 (16:9) picture.	<ul style="list-style-type: none"> <li>• The setup does not match your TV.</li> </ul>	58
No on-screen display.	<ul style="list-style-type: none"> <li>• Select Display "On".</li> </ul>	59
No surround sound.	<ul style="list-style-type: none"> <li>• The setup does not match your stereo system.</li> </ul>	20
The unit or remote operation key is not functioning.	<ul style="list-style-type: none"> <li>• Turn off the unit and unplug the AC power cord for several minutes, then replug it.</li> </ul>	–
Playback does not start when the title is selected.	<ul style="list-style-type: none"> <li>• Check the Parental setup.</li> </ul>	61,62
Audio soundtrack and/or subtitle language is not changed when you play back a DVD.	<ul style="list-style-type: none"> <li>• Multilingual language is not recorded on the DVD disc.</li> </ul>	65
No subtitle.	<ul style="list-style-type: none"> <li>• Some discs have no subtitles.</li> <li>• Subtitles are cleared. Press SUBTITLE.</li> </ul>	56
Angle cannot be changed.	<ul style="list-style-type: none"> <li>• Multi-angles are not recorded on the DVD disc.</li> </ul>	54
⏻ appears on the screen.	<ul style="list-style-type: none"> <li>• The function is prohibited with the unit or the disc.</li> </ul>	44



# Specifications

## General

Power supply	AC 120 V 60 Hz
Power consumption	Operation: 18 W, Stand by: 2 W
Weight	7.7 lbs (3.5 kg)
Dimensions	Width: 16-15/16 inches (430 mm) Height: 3-7/8 inches (99 mm) Depth: 8-13/16 inches (224.5 mm)
Tuner	181 channel freq. synthesized VHF 2-13 UHF 14-69 Cable TV 113 Channels
Antenna input/output	UHF/VHF In/Out: 75 Ω coaxial
RF channel output	Channel 3 or 4, Switchable
Color system	NTSC
Video head	4 Rotary heads
Audio track	Hi-Fi sound - 2 Tracks / MONO sound - 1 Track
Hi-Fi frequency response	20 Hz to 20,000 Hz
Hi-Fi dynamic range	More than 90dB
F.FWD/REW time at 25°C (77°F)	Approx. 1 minute and 48 seconds (with T-120 Cassette Tape)
Applicable disc	DVD (12 cm, 8 cm), CD (12 cm, 8 cm)
Frequency range	DVD: 4 Hz-22 kHz, CD: 4 Hz-20 kHz
S/N ratio	90dB (DVD)
Harmonic distortion	0.02% (DVD)
Wow and flutter	Less than 0.01% Wrms
Operating conditions	Temperature: 5°C-40°C (41°F-104°F), Operating status: Horizontal

## Input/Output

<b>DVD/VCR</b>	
Video input	1.0 V (p-p), 75 Ω, negative sync., pin jack x 2
Video output	1.0 V (p-p), 75 Ω, negative sync., pin jack x 1
Audio input	-8 dBm, 50 kΩ, negative sync., pin jack (L/R) x 2
Audio output	-8 dBm, 1 kΩ, negative sync., pin jack (L/R) x 1
<b>DVD</b>	
S-video output	(Y) 1.0 V (p-p), 75 Ω, negative sync., Mini DIN 4-pin x 1 (C) 0.286 V (p-p), 75 Ω
Component video output	(Y) 1.0 V (p-p), 75 Ω, negative sync., pin jack x 1 (P <sub>B</sub> )/(P <sub>R</sub> ) 0.7 V (p-p), 75 Ω, pin jack x 2
Audio output (BITSTREAM/PCM COAXIAL)	0.5 V (p-p), 75 Ω, pin jack x 1
Audio output (BITSTREAM/PCM OPTICAL)	Optical connector x 1
Audio output (ANALOG)	-12 dB, 1 kΩ, pin jacks (L, R) x 1
S-VIDEO/COMPONENT video selector	Slide switch x 1

## Supplied accessories

Audio/video cable .....	1
Remote control (SE-R0108) .....	1
Batteries (R03/AAA) .....	2
75 ohm coaxial cable .....	1

- Designs and specifications are subject to change without notice.

Others

## Limited warranty

### Limited United States Warranty DVD Players - Exchange Warranty

Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties to original consumers in the United States. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS DVD PLAYER AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE

PRODUCTS PURCHASED IN THE U.S.A. AND USED IN CANADA ARE NOT COVERED BY THESE WARRANTIES

PRODUCTS PURCHASED IN CANADA AND USED IN THE U.S.A. ARE NOT COVERED BY THESE WARRANTIES.

### Limited Ninety (90) Day Warranty

TACP warrant this DVD PLAYER and its parts against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. DURING THE FIRST 90 DAYS FROM THE PURCHASE DATE, TACP WILL EXCHANGE A DEFECTIVE DVD PLAYER WITH A NEW OR REFURBISHED PLAYER WITHOUT CHARGE TO YOU. YOU MUST CONTACT TOSHIBA'S CONSUMER SOLUTIONS CENTER FOR INSTRUCTIONS ON HOW TO PROCESS YOUR IN WARRANTY EXCHANGE REQUEST. THE CONSUMER IS RESPONSIBLE FOR ALL INBOUND TRANSPORTATION AND INSURANCE CHARGES FOR THE DVD PLAYER TO THE EXCHANGE CENTER. DURING THE PERIOD FROM 91 DAYS AND BEYOND, FROM THE PURCHASE DATE, TACP WILL EXCHANGE A DEFECTIVE DVD PLAYER WITH A NEW OR REFURBISHED PLAYER FOR A NOMINAL FEE. YOU MUST CONTACT TOSHIBA'S CONSUMER SOLUTIONS CENTER FOR INSTRUCTIONS ON HOW TO PROCESS YOUR EXCHANGE REQUEST. THE CONSUMER IS RESPONSIBLE FOR ALL INBOUND TRANSPORTATION AND INSURANCE CHARGES FOR THE DVD PLAYER TO THE EXCHANGE CENTER.

#### \*Rental Units

The warranty for rental units begins with the first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

#### \*Commercial Units

DVD PLAYERS sold and used for commercial purposes have a limited ninety (90) day warranty for all parts, labor.

### Owner's Manual and Demographic Card

You should read this owner's manual thoroughly before operating this DVD PLAYER. You should complete and mail the enclosed Demographic card within ten days after you, or the person who has given you this product as a gift, purchased this DVD PLAYER. This is one way to enable TACP to provide you with better customer service and improved products. Failure to return the Demographic card will not affect your rights under this warranty.

### Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must provide your bill of sale or other proof of purchase.
- (2) All warranty servicing of this DVD PLAYER must be made by an Authorized TACP Service Station.
- (3) The warranties from TACP are effective only if the DVD PLAYER is purchased and operated in the U.S.A. or Puerto Rico.
- (4) Labor service charges for set installation, set up, adjustment of customer controls and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any DVD PLAYER or parts which have been lost or discarded by you or to damage to DVD PLAYER or parts caused by misuse, accident, Acts of God, such as lightning or fluctuations in electric power, improper installation, improper maintenance or use in violation of instructions furnished by TACP; or to units which have been modified or had the serial number removed, altered, defaced or rendered illegible.



### How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the section "Troubleshooting", you find that service is needed:

- (1) For instructions on how to obtain warranty service for exchange program DVD Players, contact TACP'S toll free Call Center at 1-866-583-7353.
- (2) Include your bill of sale or other proof of purchase along with the DVD player, when sending it to the Authorized TACP Service Station SPECIFIED by TACP'S Call Center. You must pay for all transportation and insurance charges for the DVD Product to and from the Service Station.

For additional information, visit TACP's web site:  
[www.tacp.toshiba.com](http://www.tacp.toshiba.com)

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Others



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