Instant Timer Recording (ITR)

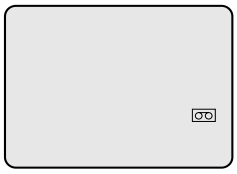
The Instant Timer Recording feature provides a simple and convenient way to make a timed recording.

NOTE:
If you wish to watch the DVD playback during the ITR, press **DVD** to change to DVD mode and perform the DVD playback (see page 39).

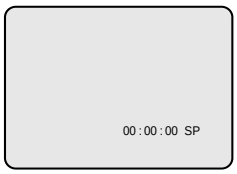
Preparation:
- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **VCR** to select the VCR mode. (The VCR indicator will light.)

Example: Instant Timer Recording for 30 minutes.

1 Load a cassette tape with the erase prevention tab intact.
The VCR will automatically turn on.



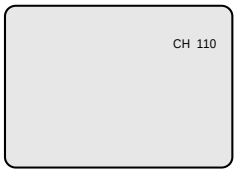
2 Press **SP/EP** to select the desired tape speed SP or EP.
The tape counter and “SP” or “EP” will appear on the screen for about 4 seconds.



3 Set the TV/CATV option to the appropriate position (see page 21).

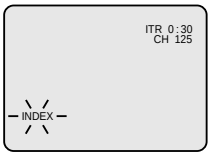
TV	- VHF/UHF channels
CATV	- CABLE TV channels

4 Press **Number keys** or **VCR CH +/–** to select the channel to be recorded.



5 Press **REC** on the VCR or while holding **REC**, press **PLAY** on the Remote to begin recording. Press **REC** on the VCR again to stop recording after 30 minutes. Each additional press of **REC** will increase recording time as shown in the chart below, up to a maximum of 6 hours. The ITR and recording time will appear on the screen for about 4 seconds. And, REC will keep blinking in the display.

Press	Recording time	Press	Recording time
once	NORMAL REC	6 times	3:00
twice	0:30	7 times	4:00
3 times	1:00	8 times	5:00
4 times	1:30	9 times	6:00
5 times	2:00	10 times	NORMAL REC



To cancel ITR

Press **STOP** or turn off the power.
“ ■ ” will appear on screen for about 4 seconds.

Timer recording

Timer recording can be programmed on-screen with the remote control. The built-in timer allows automatic unattended recording of up to 8 programs within 1 month.

NOTES:

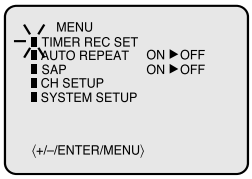
- If the clock symbol (⏲) blinks when the timer recording ended, the TV program has not been completely recorded because of an insufficient tape supply. In this case, press **TIMER** to cancel the timer program or press **EJECT** to remove the cassette tape.
- During timer recording standby mode, the VCR mode cannot be selected. To use the VCR, press **TIMER** at first, then press **VCR** to change to VCR mode. After you use the VCR, press **TIMER** again to put the VCR into timer recording standby mode.
- If you press **TIMER** during timer recording, the recording operation will be interrupted. If you press **TIMER** again within the programmed time, the recording operation will start again.
- After a power failure or disconnection of the power plug, all programmed recording settings and time display will be lost upon resumption of power. In this case, reset the clock (see pages 23-25) and reprogram any timer recordings.

Preparation:

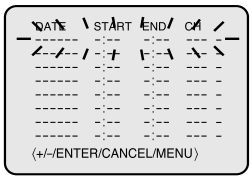
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **VCR** to select the VCR mode.
- Load a cassette tape with the erase prevention tab intact.
- Press **OSD** to verify time and date are correct (see page 31).

Example: Program a timer recording for the 26th day, channel 125 (CATV), 11:00 - 11:30 PM on timer program number 1 (Tape speed: EP).

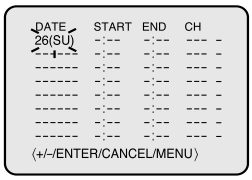
1 Press **SET UP MENU**. Select the TIMER REC SET option, then press **ENTER**.



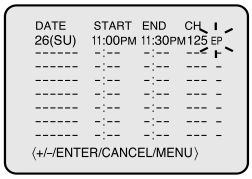
2 Press **SET +** or **–** to select one of the program line, then press **ENTER**.



3 Press **SET +** or **–** to select the date, then press **ENTER**.



4 Set the **start time**, **end time**, **channel** and **tape speed** as in step **3**.

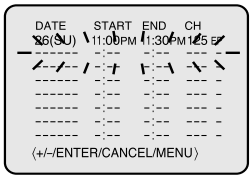


NOTES:

- If the programmed start time is over the present time, the program will be canceled after pressed **ENTER**.
- Press **CANCEL** to move cursor backward for correction.
- To record from external source set the channel to "L". "L" will appear next to CH 125 (or 69).

5 To enter other programs, repeat step **2** through **4**.

- To return to the normal screen, press **SET UP MENU** twice.



6 Press **TIMER**. The clock symbol (⏲) will appear on the display and the VCR stands by for recording. At the same time, VCR mode will change to DVD mode automatically. You can use DVD even if the VCR is in the timer recording mode. If you do not use the DVD, turn the power off.
The timer recording will start at 5 seconds before the time you predetermined.

NOTES:

- If the clock symbol (⏲) does not appear on the display in spite of the pressing of **TIMER**, the cassette may not have been loaded yet (see page 26).
- If the cassette is ejected in spite of the pressing of **TIMER** , the erase prevention tab of the cassette may have been removed (see page 26).

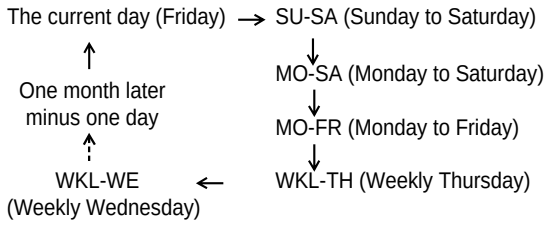
Timer-recording

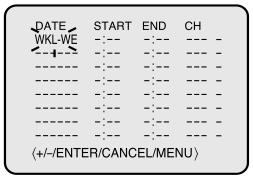
Timer recording special case

Weekly (e.g. WKL-TU: each Tuesday) or daily (e.g. MO-SA: Monday to Saturday) timer recording

Follow the procedure of timer recording on the previous page. At picture **3** press **SET +** or **–** repeatedly until the desired setting appears. Then press **ENTER**.

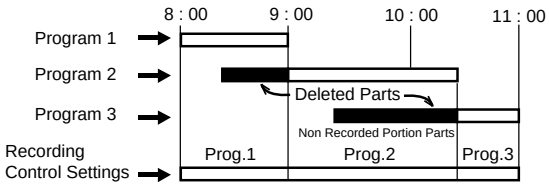
When you press **SET –** repeatedly, the indicator at DATE will change as follows, in this case the today is Friday.





In case timer programs-overlap

- Do not overlap timer programs as portions of the conflicting programs will be lost. The first recording time has priority over the next recording time as shown in the diagram below.



NOTES:

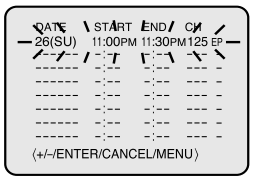
- The daily/weekly recording can be made continuously until the recording is canceled or the tape reaches the end.
- During timer recording the automatic rewinding mechanism does not function.

Confirmation / Cancellation of the timer recording

1 If the timer has been activated, press **TIMER** to deactivate the timer. The clock symbol (⏲) will disappear. Then press **VCR** to change to VCR mode.

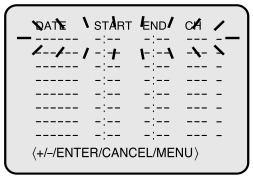
2 **To confirm timer program:**

At picture **1** on the previous page select the "TIMER REC SET" option and press **ENTER**. Then the timer program list as right will appear on the screen.



3 **To cancel timer program:**

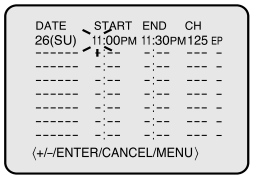
Press **SET +** or **–** to select the unnecessary program, then press **CANCEL** to cancel the program.



4 Press **SET UP MENU** repeatedly until the TV-picture appears.

NOTES:

- If there are other timer record programs remaining, **TIMER** must be pressed to reactivate the timer, otherwise the remaining timer record programs will be ignored.
- You cannot confirm the timer program during timer recording operation.
- You can also correct the programmed setting in program confirm mode.
  At step **2** above, press **ENTER** to enter the program input mode. Then press **ENTER** repeatedly until the item you wish to correct blinks. Then correct the data with **SET +** or **–**.
  Then press **SET UP MENU** repeatedly until the TV-picture appears.



Stereo recording and playback/Separate Audio Program (SAP)

NOTES:

- When playing back a tape that is not recorded in Hi-Fi stereo mode, the audio will automatically be monaural.
- When listening to a VHS Hi-Fi video tape or MTS broadcast through the VHF/UHF jack (Audio/Video cable not connected), the sound will be monaural.

Stereo Recording and Playback

The VHS Hi-Fi audio system permits high fidelity recording of MTS STEREO TV broadcasts.

When a MTS STEREO broadcast is received, the word "STEREO" will appear on the screen for about 4 seconds and the program can be viewed or recorded in stereo.
The Hi-Fi STEREO recording procedure is the same as for normal recordings.

STEREO

NOTE:

When using a CATV system, stereo TV programs may be transmitted over a mono cable channel. In this case the word "STEREO" will not appear and the sound will be in mono.

Output selection

When viewing an MTS STEREO TV program, or playing a prerecorded VHS Hi-Fi STEREO videotape, press **A.MONITOR** to select how the audio will be heard through the speakers. Normally set to the Hi-Fi STEREO position, this button can be set to the MONO position if the stereo broadcast or videotape audio is of poor quality. The "R" and "L" positions allow the audio from the Right or Left Hi-Fi channel to be heard over both TV speakers. This button has no effect when viewing a MONO videotape or TV program. Each time when you press the button, OUTPUT SELECTION display appears on the screen for several seconds. Refer to the chart below.

OUTPUT SELECTION	SOUND HEARD ON BOTH SPEAKERS
STEREO	STEREO
L ch	LEFT CHANNEL AUDIO
R ch	RIGHT CHANNEL AUDIO
MONO	MONO

Separate Audio Program (SAP)

Your VCR is fitted with a SAP broadcast system which enables you to switch to a separate audio program when viewing a selected channel.
This function applies only when the program is broadcast in multi-languages through the SAP broadcast system.

1 Press **SET UP MENU**. Then press ◀ or ▶ to select "SAP".

2 Then press **ENTER** to select "ON".

Then press **SET UP MENU** until the menu screen is cleared.

MENU
TIMER REC SET
AUTO REPEAT ON ▶OFF
SAP ▶ON OFF
CH SETUP
SYSTEM SETUP

⟨+/–/ENTER/MENU⟩

Listening to SAP

When the VCR is turned on or a channel selection is made, make certain the letters "SAP" appears on the screen for about 4 seconds. This means that the "Separate Audio Program" broadcasting is available.

STEREO SAP

OR

SAP

Duplicating a video tape/Duplicating a disc material onto a video tape

Duplicating a video tape

If you connect the VCR to another VCR or camcorder, you can duplicate a previously recorded tape. Make all connections before turning on the power.

1 Load a blank cassette tape with the erase prevention tab intact into the recording VCR.
Load a previously recorded tape into the playback VCR or CAMCORDER.

2 Press **SP/EP** to select the desired tape speed SP or EP.
It is recommended that you set the speed to the SP mode on the recording VCR for best results.

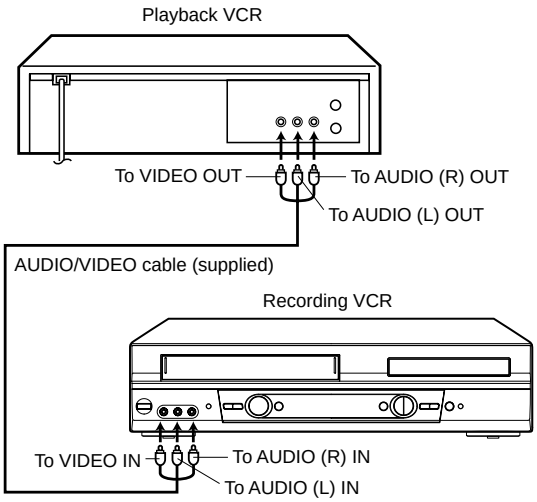
3 Press **VCR CH +** or **–** to select AUDIO/VIDEO input position. "L" will appear in the display.

4 Press **REC** on the recording VCR or on the Remote. While holding **REC**, press **PLAY**.
Then press **PAUSE**.

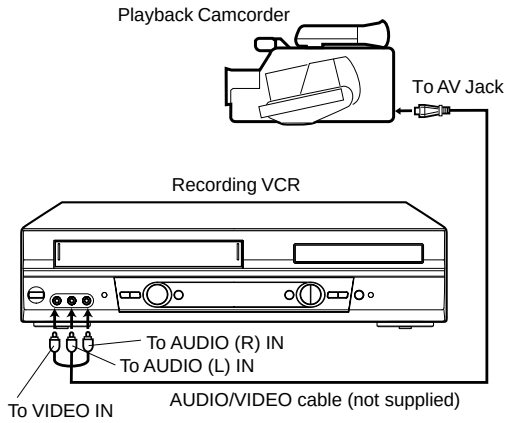
5 Press PLAY button on the playback VCR or CAMCORDER, then press PAUSE button.

6 Press **PAUSE** on both the VCRs simultaneously to begin the duplicating process.

Connection with second VCR



Connection with Camcorder



For duplicating a previously recorded tape from a camcorder, follow the camcorder manufacturer's instructions. A typical camcorder dubbing hookup is shown above.

Duplicating a disc material onto a video tape

You can record disc material in DVD, Video CD, Audio CD, etc. onto a video tape with this DVD/VCR only. If the DVD disc has a Copy-guard feature, the duplicating is not possible. A symbol mark " ➡ " will appear on the screen for approx. 4 seconds. See page 39 for more information about the DVD playback.

Preparation:
- Load a cassette tape with the erase prevention tab intact.
- Select the tape speed (SP or EP) in the VCR mode.
- Load a disc you wish to duplicate.

1 Press **DVD** to select the DVD mode. (The DVD indicator will light.)

2 Press **PLAY** to start the disc playback.

3 During disc playback, press **REC** on the VCR or while holding **REC**, press **PLAY** on the Remote. The duplicating will start.

NOTES:
- You can set the duplicating time using the ITR-function. At step **3** above press **REC** repeatedly until the desired duplicating time appears on the screen (see page 32).
- When the scanning mode is set to the progressive mode, you cannot duplicate a disc material onto a video tape. When **REC** is pressed, the PROGRESSIVE indicator "P" on the display window will flash and "PLEASE SET P OFF" will appear on the screen.

The following types of discs can be played on this unit.

Disc type and logo mark		Recorded content	Disc size
DVD Video	DVD VIDEO	Audio + Video	5 inches (12 cm)
			3 inches (8 cm)
Video CD	COMPACT disc DIGITAL VIDEO		5 inches (12 cm)
			3 inches (8 cm)
Audio CD	COMPACT disc DIGITAL AUDIO	Audio	5 inches (12 cm)
			3 inches (8 cm)
CD-R/CD-RW	COMPACT disc Recordable COMPACT disc ReWritable	CD-DA/JPEG/ MP3/WMA file	5 inches (12 cm)
			3 inches (8 cm)

- This unit can play back FUJICOLOR CD and Kodak Picture CD formats.
- DVD-ROM, SVCD, CVD, Photo CD, etc. cannot be played.
- Some CD-R/RWs can not be played back depending on the recording conditions.
- This unit is to be used exclusively with the NTSC color system. PAL and SECAM system discs cannot be used with this unit.

Region Number

Region number (Regional restriction code) is built-in to the unit and DVD video discs.
Region number “1” or “ALL” of DVD video discs can be used on this unit.

Title

When two or more movies are recorded on a disc, the disc is divided into two or more sections.
Each section is called a “TITLE”.

Chapter

The titles can be subdivided into many sections.
Each section is called a “CHAPTER”.

Video CD/Audio CD Track

A Video CD or Audio CD can contain several items.
These are assigned to the tracks.

Removing Disc from Case

Be sure to hold the edge of disc. Do not touch the surface of the disc.
Pick up the disc gently from the case.

- Do not scratch the disc.
- Do not get dirt on the surface of the disc.
- Do not stick a label or adhesive tape on the disc.
- Do not drop or bend the disc.

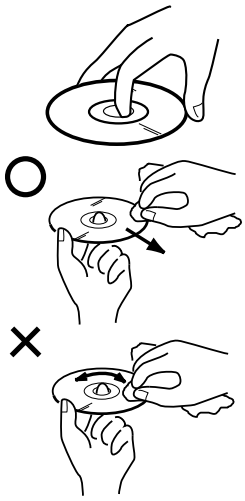
Storing Disc

- Store the disc in the case to avoid risk of scratches, dirt or damage.
- Do not leave disc exposed to direct sunlight or in hot or humid places.

Cleaning Disc

Wipe the disc with a clean, dry cloth from center to edge.

- Do not wipe the disc round.
- Do not use liquid or aerosol cleaners.



Setting setup language

The setup language can be selected.

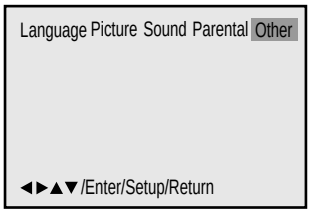
If the DVD/VCR does not operate properly: Static electricity, etc., may affect the player's operation. Disconnect the AC power cord once, then connect it again.

Preparation:

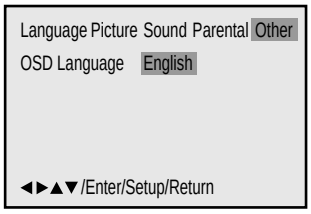
- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD.
- When using an amplifier, switch on the amplifier.

1 Press **DVD** to select the DVD mode. (The DVD indicator will light.)
"No Disc" will appear on the screen. (If a DVD disc has already loaded, the playback will start automatically.)

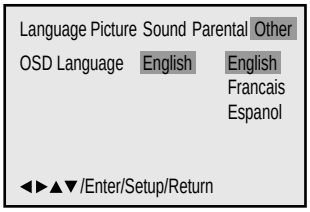
2 Press **SET UP MENU** in the stop mode. The SETUP MENU of DVD will appear on the screen. Then press ◀ or ▶ to select "Other".



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



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



NOTE: To make the SETUP screen disappear, press **SET UP MENU** (or **RETURN**).

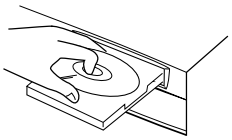
Playback procedure

Preparation:

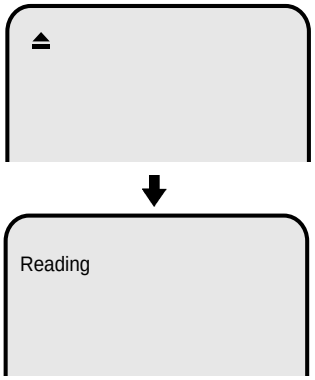
- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

1 Press **OPEN/CLOSE**.
The disc tray will open.

2 Place a disc onto the tray.
Hold the disc, position it with the printed label side up, align it with the guides, and place it in its proper position.



3 Press **OPEN/CLOSE** or **PLAY**.
The disc tray closes automatically.
On the screen, ⏏ changes to "Reading" and then playback will commence.



- A menu screen may appear on the TV screen, if the disc has a menu feature. In this case, press ▲, ▼, ◀, ▶ or **ENTER** to operate a menu feature.

4 Press **STOP** to end playback.

- The DVD/VCR memorizes the stopped point, depending on the disc. "⚑" appears on the screen for approx. 4 seconds. "▶" keep blinking in the display until the playback is stopped completely. Press **PLAY** to resume playback (from the scene point).
- If you press **STOP** again ("■" appears on the screen) or unload the disc, the DVD/VCR will clear the stopped point.

5 Then press **OPEN/CLOSE**.
The disc tray opens.
Remove the disc and press **POWER**.
The disc tray closes automatically and DVD/VCR turns off.

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 37 and 52).
- Some discs may take a minute or so to start playback.
- 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 can not access the feature at this time. This does not indicate a problem with the DVD/VCR.
- When you set a single-faced disc label downwards (ie. the wrong way up) and press **OPEN/CLOSE** or **PLAY**, "Reading" will appear and remain on the screen for approx. 40 seconds and then it will change to "Incorrect Disc".
- Some playback operations of DVDs may be intentionally fixed by software producers. Since this DVD/VCR 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.
- When playing DTS-encoded Audio CDs, excessive noise will be heard from the analog stereo outputs. To avoid possible damage to the audio system, the consumer should take proper precautions when the analog stereo outputs of the DVD/VCR are connected to an amplification system.

Special playback

Note: There may be a slight delay between pressing the button and the function activation.

NOTE:
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.

Fast Forward Playback

Press **FF** during normal playback.
Each press of **FF** will increase the speed of the search ▶▶ (x2), ▶▶▶ (x4), ▶▶▶▶ (x8), ▶▶▶▶▶ (x20).

• To resume normal playback, press **PLAY**.

Review Playback

Press **REW** during normal playback.
Each press of **REW** will increase the speed of the search ◀◀ (x2), ◀◀◀ (x4), ◀◀◀◀ (x8), ◀◀◀◀◀ (x20).

• To resume normal playback, press **PLAY**.

Still Playback

Press **PAUSE** during normal playback.

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

Frame Advance

Press **PAUSE** during still playback. One frame is advanced each time you press **PAUSE**.

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

Slow-motion Playback

Press **SLOW** during normal playback or still playback.
Each press of **SLOW** will change the speed of the slow x1/2, x1/4, x1/6, x1/7.

• To resume normal playback, press **PLAY**.
• To resume the still playback, press **PAUSE**.

Locating a chapter or track

Press **SKIP (▶▶I)** Forward or **SKIP (I◀◀)** Reverse during playback to locate a chapter that you want to watch.
Each time you press the button, a chapter or track is skipped.

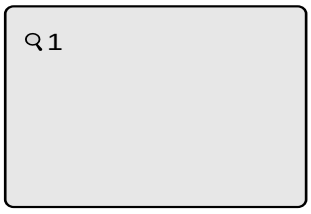
Zooming/Locating desired scene

Preparation:
- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

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 center part of the image will be zoomed in.
Each press of **ZOOM** will change the ZOOM 1 (x 1.3), 2 (x 1.5) and 3 (x 2.0).



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

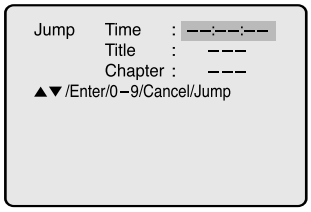
3 In the zoom mode press **ZOOM** repeatedly to return to a 1:1 view (Off).

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 **OSD** (see page 58).

1 Press **SEARCH MODE** during playback or stop mode.



2 Press ▲ or ▼ to select the “Time”, “Title” or “Chapter”.

3 Press **Number keys** 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.

NOTES:
- You can use the Pause, Slow, Search or Skip feature in the zoom mode.
- In case of the Video-CD playback with PBC, the SEARCH MODE does not work.

Repeat playback

NOTES:

- Some discs may not work with the repeat operation.
- In A-B repeat mode, subtitles near point A or B may not appear.
- Repeat playback is not available in multi-angle scenes.
- You may not be able to set A-B Repeat, depending on the scenes of the DVD.
- A-B repeat does not work with an interactive DVD, MP3/WMA/JPEG-CD and Video-CD with PBC.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

Repeat playback of Title, Chapter and Track

1 Press **PLAY MODE** during playback or stop mode.

DVD

Repeat : Off
◀▶/Enter/Play Mode

CD

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

2 Press **ENTER** once or twice to select “Chapter” or “Title”.
In case of CD, at first press ▼ to select “Repeat” and then press **ENTER** once or twice to select “Track” or “All”.

DVD

Repeat : Chapter
◀▶/Enter/Play Mode

CD

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

3 Press **PLAY MODE** again to make the screen disappear.

- Press **PLAY** to start Repeat playback.
- To resume normal playback, select Repeat “Off”.

A-B Repeat Playback

A-B repeat playback allows you to repeat material between two selected points.

1 Press **REPEAT A-B** during playback.
The start point is selected.

A–

2 Press **REPEAT A-B** again.
The end point is selected. Playback starts at the point that you selected. Playback stops at the end point, returns to Point A automatically, then starts again.

A–B

To resume normal playback press **REPEAT A-B** again.
“ Off” appears on the screen.

Program playback/Random playback (CD)

NOTES:
- To cancel program playback, select "Clear" at step **3** and press **ENTER**.
- The program is cancelled when you open the disc tray or turn the power off.
- In playing back the Video CD with PBC, you can not set Program playback and Random playback.

Preparation:
- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

Program playback

You can arrange the order of tracks on the disc.

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

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

2 Press **ENTER** repeatedly until the Program table as right appears.

```
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 **Example:** In case you wish to program in order of 7, 3, 11: Enter as **7** ▼, **3** ▼, **11**.

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

```
Play Mode    : Program
Repeat       : Off
1 7--   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 program you selected will begin to playback in the order set.
To return to normal playback, select "Play Mode: Off" at step **2** above.

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

Random playback

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

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

2 Press ◀/▶ to select "Random".

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

3 Press **PLAY**.
Random playback will start.

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 can not be played.

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 one directory 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.
- As for multi-session disc, only the first session can be played.
- 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,

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

CAUTION:

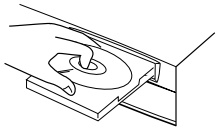
- Some MP3/WMA/JPEG CDs can not be played back depending on the recording conditions.
- The CD-R/RW that has no music data or non-MP3/WMA/JPEG files can not be played back.

Preparation:

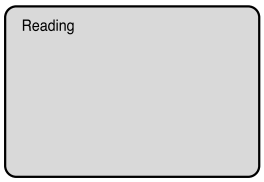
- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

MP3/WMA CD playback

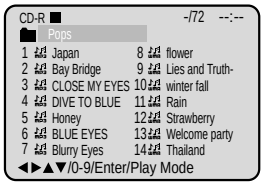
1 Press **OPEN/CLOSE**.
The disc tray will open.
Place a disc on which MP3 or WMA files have been recorded onto the tray.



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

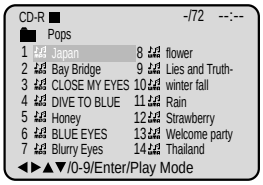


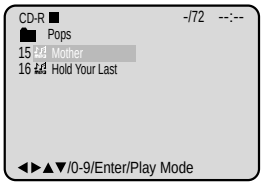
3 A file menu screen will appear on the TV screen.
Press ◀ / ▶ to select folder.



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

- In case the folder includes more than 15 files, 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 **ENTER**.
The selected file starts playing back.

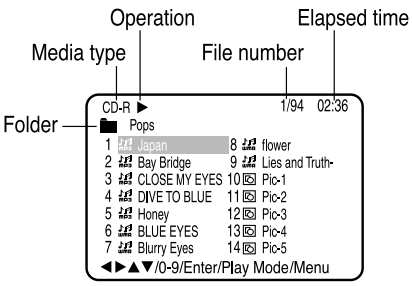
6 Press **STOP** to end playback.

- 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.

NOTES:

- 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 42 and 43).
- 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.

About file menu



: Indicates MP3 file

: Indicates WMA file

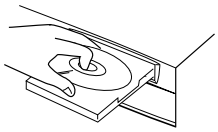
: Indicates JPEG file

NOTE:
The picture menu is displayed when the FUJICOLOR CD or the Kodak Picture CD are played. To display the file menu press **TITLE**.

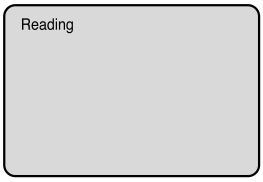
Preparation:
- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

JPEG CD playback

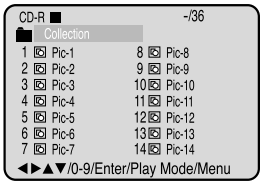
1 Press **OPEN/CLOSE**.
The disc tray will open.
Place a disc on which JPEG files have been recorded onto the tray.



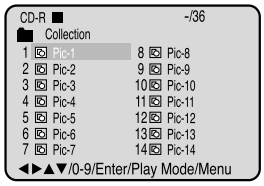
2 Press **OPEN/CLOSE** or **PLAY**.
The disc tray closes automatically.
On the TV-screen, “Reading” will appear. Reading will take as much time as the number of file.



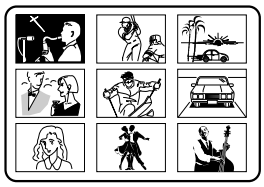
3 A file menu screen will appear on the TV screen.
Press ◀ / ▶ to select folder.



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

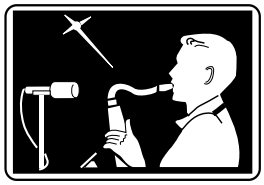


To display a picture menu, press **DVD MENU**. (To return to a file menu, press **TITLE**.)
Press ▲ / ▼ or ◀ / ▶ to select the desired file.
- To display next list, press **SKIP** ▶▶| / |◀◀.



- 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.

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.

Setting the JPEG Interval

Preparation:

- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

Setting the JPEG Interval

You can continuously play back all JPEG files automatically.

1 Press **SET UP MENU** in the stop mode.
Press ◀ / ▶ to select "Picture", then press ▼ or **ENTER**.

Language Picture Sound Parental Other

◀▶▲▼/Enter/Setup/Return

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

Language Picture Sound Parental Other
Tv Screen 4:3
Display On
JPEG Interval Off
Select Files All

◀▶▲▼/Enter/Setup/Return

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

Language Picture Sound Parental Other
Tv Screen 4:3
Display On
JPEG Interval 5 Seconds
Select Files All

◀▶▲▼/Enter/Setup/Return

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.

4 To make SETUP screen disappear, press **SET UP MENU**.

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.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

1 Press **SET UP MENU** in the stop mode.

Press ◀ / ▶ to select "Picture", then press ▼ or **ENTER**.

Language Picture Sound Parental Other

◀▶▲▼/Enter/Setup/Return

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

Language Picture Sound Parental Other
Tv Screen 4:3
Display On
JPEG Interval Off
Select Files All

◀▶▲▼/Enter/Setup/Return

3 Press **ENTER**.

Press ◀ or ▶ to select your desired file type.

Language Picture Sound Parental Other
Tv Screen 4:3
Display On
JPEG Interval Off
Select Files Pictures Only

◀▶▲▼/Enter/Setup/Return

All:
Displays all files.

Music Only:
Displays only MP3/WMA files.

Pictures Only:
Displays only JPEG files.

4 To make SETUP screen disappear, press **SET UP MENU**.

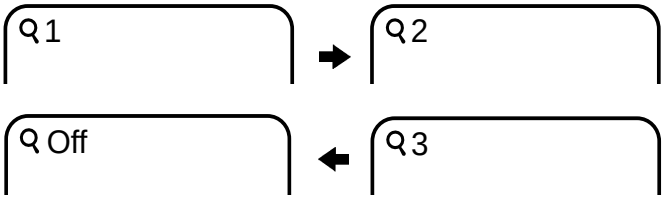
Zooming/Changing angles (JPEG CD)

Preparation:
- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

Zooming

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

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



2 In the zoom mode, press **ZOOM** repeatedly to return to a 1:1 view (Q Off).

Changing angles

You can display JPEG images rotating at 90 degree intervals.

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

2 Press **ANGLE** repeatedly until the desired angle is selected.
Pressing **ANGLE** four times returns the image to its original angle.
- Images are displayed at the same angle until the disc is removed.

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.

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.

Preparation:
- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

Marking the scenes

1 Press **MARKER** during playback.

Marker 1 : ✱✱ : ✱✱ : ✱✱
Marker 2 : ✱✱ : ✱✱ : ✱✱
Marker 3 : ✱✱ : ✱✱ : ✱✱
▲▼/Enter/Cancel/Marker

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

- Repeat this procedure to set the other 2 scenes.

Marker 1 : 00 : 27 : 54
Marker 2 : ✱✱ : ✱✱ : ✱✱
Marker 3 : ✱✱ : ✱✱ : ✱✱
▲▼/Enter/Cancel/Marker

3 Press **MARKER** to remove this display.

Returning to the scenes

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

Marker 1 : 00 : 27 : 54
Marker 2 : 01 : 16 : 25
Marker 3 : 02 : 08 : 31
▲▼/Enter/Cancel/Marker

2 Press ▲/▼ to select the Marker 1-3.

Marker 1 : 00 : 27 : 54
Marker 2 : 01 : 16 : 25
Marker 3 : 02 : 08 : 31
▲▼/Enter/Cancel/Marker

3 Press **ENTER**.
Playback starts from the marked scene.

To cancel the mark

1 Press **MARKER**.

2 Press ▲/▼ to select the Marker 1-3.

3 Press **CANCEL**.
To remove this display, press **MARKER**.

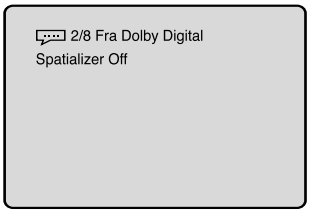
Changing soundtrack language/Karaoke playback

Preparation:
- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

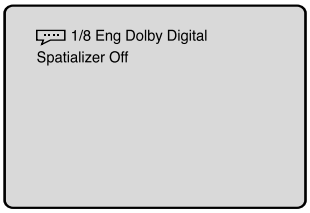
Changing soundtrack language

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

1 Press **A.MONITOR** during playback.
The current soundtrack language will appear.

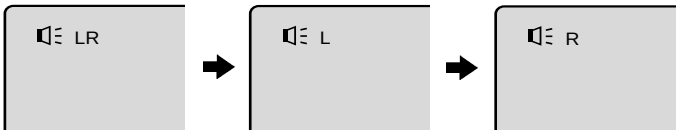


2 Press **A.MONITOR** repeatedly until the desired language is selected.
The on-screen display will disappear after a few seconds.



In case of VIDEO CD playback

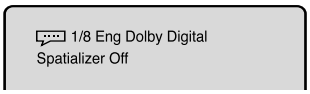
Audio type changes as follows each time you press A.MONITOR.



Karaoke playback

When playing back a DVD KARAOKE disc, you can turn the vocal on or off.

1 Press **A.MONITOR** during DVD KARAOKE disc playback.



2 Press ▲ or ▼ to select Karaoke vocal setting.

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.

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.

Subtitles/Changing angles/Title selection/DVD menu

NOTES:

- If the desired language is not heard after pressing the SUBTITLE button several times, the language is not recorded on the disc.
- Changing soundtrack or subtitle language is cancelled when you open the disc tray. The initial default language or available language will be heard and seen if the disc is played back again.
- Depending on the DVD you may be unable to turn on, turn off, or change the subtitles, even if they are recorded on the disc. While playing the DVD, the subtitle may change while opening or closing the disc tray, or while changing the title.
- In some cases, the subtitle language is not changed to the selected one immediately.
- Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the disc, or you may be unable to select the title, and a "title menu" may simply be called a "menu" or "title" in the instructions supplied with the disc.

Preparation:

- Turn ON the TV and set it to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

Turning the Subtitles On and Off

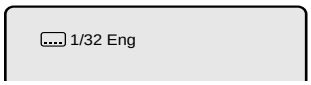
When playing back a disc recorded with subtitles, you can turn the subtitles on or off.

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

Changing the subtitle language

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

Press **SUBTITLE** repeatedly during playback until your desired language appears.
The on-screen display will disappear after a few seconds.

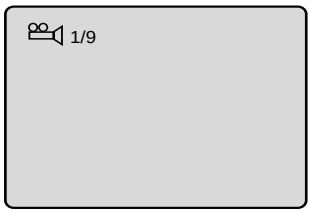


Changing Angles

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.

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



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 **TITLE** during playback.
Title menu appears on the screen.

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

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

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

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 DVD menu.

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

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

Parental control

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

NOTES:

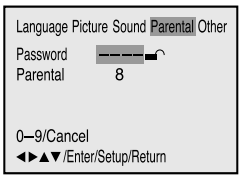
- **If each setup (page 46~48, 52~59) has been completed, the unit can always be worked under the same conditions (especially with DVD discs).**
  Each setup will be retained in the memory if you turn the power off.
- Depending on the discs, the unit cannot limit playback.
- Some discs may not be encoded with specific rating level information though its disc jacket says "adult". For those discs, the age restriction will not work.
- Do not forget the password. If you forget the password, contact customer service.

Preparation:

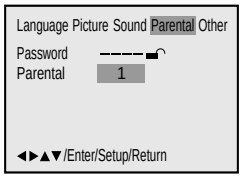
- Turn ON the TV and set to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

Parental control setting

1 Press **SET UP MENU** in the stop mode. Press ◀ or ▶ to select "Parental". Then press ▼ or **ENTER**.

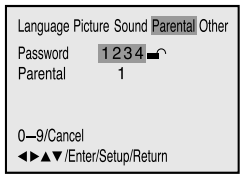


2 Press ▲ or ▼ to select "Parental 8", then press **ENTER** until the level you desire appears (e.g.: 1).



3 Press ▲ once to select "Password ---- ".
Then press **Number keys** to input a 4-digit password (e.g.: 1234).

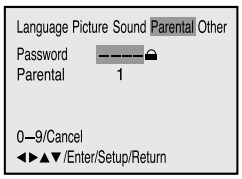
- If you input a wrong number, press **CANCEL**.
- Be sure to remember this number!



Level Off : The parental control setting does not function.
Level 1 : DVD software for adults cannot be played back.
Level 8 : All DVD software can be played back.

Select from level 1 to level 8.
On a scale of 1-8, "1" is the most restrictive.

4 Press **ENTER**.
1234 change to ---- .

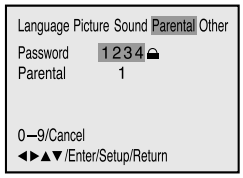


5 To make SETUP screen disappear, press **SET UP MENU**.

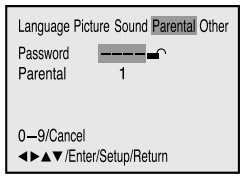
To unlock the Parental Control Setting

Cancel the password so as to set the Parental level freely again,

1 Select "Password ---- " (step **1**) and press **Number keys** to input your 4-digit password.
Then press **ENTER**.



2 If the input password was right, ---- will appear.
You can move to "Parental 1"(e.g.) to input the desired level or to cancel parental control.



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.

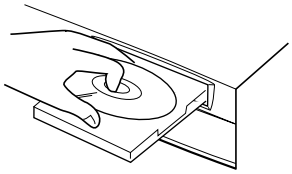
NOTE:

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.

Preparation:

- Turn ON the TV and set to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

1 Load a DVD disc and press **OPEN/CLOSE** or **PLAY** (see page 39).



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 **ENTER** key, “Your disc exceeds the parental control level 1.”(e.g.) screen will then appear.

Your disc exceeds
the parental control level 1.

Parental Control Level
Cancel Picture

▲▼/Enter/Return

3 If you wish to cancel the set rating level temporarily, select “Parental Control Level” with ▲ or ▼, then press **ENTER**. If the 4-digits password at step **3** on page 52 has been set, the password entering screen will appear as shown in step **4** below. 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**.

Please enter the
4 – digit password

– – – –

Enter/0 – 9/Cancel/Return

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

5 Playback will commence if the entered password was correct.

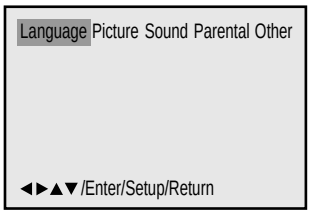
Setting menu language

You can select the language of the disc menu messages of DVDs.

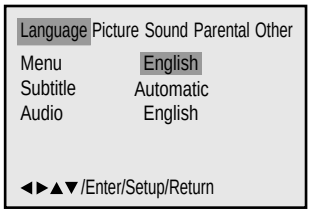
Preparation:

- Turn ON the TV and set to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

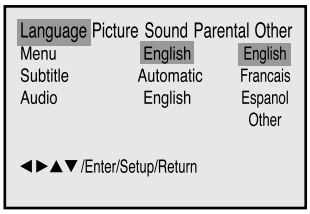
1 Press **SET UP MENU** in the stop mode.
Press ◀ or ▶ to select "Language".



2 Press ▼ or **ENTER**.
Then press ▲ or ▼ to select "Menu".



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



English, Francais, Espanol
The selected language is the first-priority Menu language.

Other: Other language can be selected (See the Language code list on page 61).

4 To make SETUP screen disappear, press **SET UP MENU**.

Setting subtitle language

The same subtitle language can always be selected even if you replace the disc or turn the power off.

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

Preparation:
- Turn ON the TV and set to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

1 Press **SET UP MENU** in the stop mode.
Press ◀ or ▶ to select "Language".

Language Picture Sound Parental Other
◀▶▲▼/Enter/Setup/Return

2 Press ▼ or **ENTER**.
Then press ▲ or ▼ to select "Subtitle".

Language Picture Sound Parental Other
Menu English
Subtitle Automatic
Audio English
◀▶▲▼/Enter/Setup/Return

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

Language Picture Sound Parental Other
Menu English English
Subtitle Automatic Francais
Audio English Espanol
Other
Automatic
◀▶▲▼/Enter/Setup/Return Off

English, Francais, Espanol
The subtitle is displayed with the selected language if it is recorded on the disc.

Other:
If you want to select another language, enter the language code (see the language code list on page 61).

Automatic:
- 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:
Subtitles do not appear.

4 To make SETUP screen disappear, press **SET UP MENU**.

Setting audio soundtrack language/Setting surround sound

Setting audio soundtrack language

The same audio soundtrack language can always be selected by your unit even if you replace the disc or turn the power off.

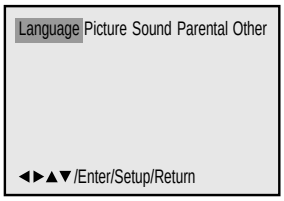
NOTES:

- If the selected language is not recorded on the disc, the original language will be heard.
- The "SPATIALIZER N-2-2" is effective only for the sound of disc.

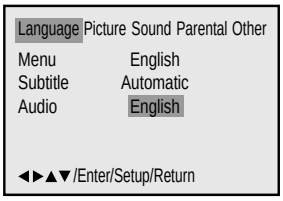
Preparation:

- Turn ON the TV and set to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

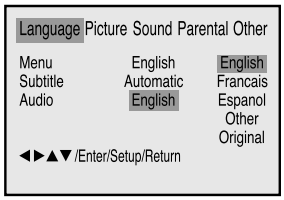
1 Press **SET UP MENU** in the stop mode.
Press ◀ or ▶ to select "Language".



2 Press ▼ or **ENTER**.
Then press ▲ or ▼ to select "Audio".



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



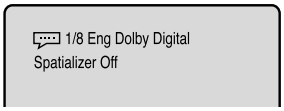
- **English, Francais, Espanol:** The language you have selected will play if it is recorded on the disc.
- **Other:** If you want to select another language, enter the language code (See the Language code list on page 60).
- **Original:** The unit will select the first priority language of each disc.

4 To make SETUP screen disappear, press **SET UP MENU**.

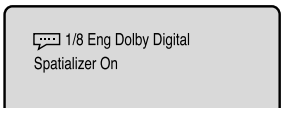
Setting surround sound

This DVD/VCR equipped with a "SPATIALIZER N-2-2". It can produce the effect of being in a cinema or a concert hall.

1 During disc playback press **A. MONITOR**.



2 Press ▶ to select "On".



To cancel Surround mode:
Follow the right steps **1**~**2**, then press ▶ to select the "Off" position.

Setting the aspect ratio of TV screen

You can select the aspect ratio for your TV.

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

Preparation:
- Turn ON the TV and set to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

1 Press **SET UP MENU** in the stop mode.
Press ◀ or ▶ to select "Picture".

Language Picture Sound Parental Other
◀▶▲▼/Enter/Setup/Return

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

Language Picture Sound Parental Other
Tv Screen 4:3
Display On
JPEG Interval Off
Select Files All
◀▶▲▼/Enter/Setup/Return

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

Language Picture Sound Parental Other
Tv Screen 4:3 4:3
Display On 4:3
JPEG Interval Off 16:9
Select Files All
◀▶▲▼/Enter/Setup/Return

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 **SET UP MENU**.

Setting on screen display/Status display of disc

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

Preparation:

- Turn ON the TV and set to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

1 Press **SET UP MENU** in the stop mode.
Press ◀ or ▶ to select "Picture".

Language Picture Sound Parental Other
◀▶▲▼/Enter/Setup/Return

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

Language Picture Sound Parental Other
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
Tv Screen 4:3
Display Off
JPEG Interval Off
Select Files All
◀▶▲▼/Enter/Setup/Return

On: On screen displays appears when you press the any buttons (factory setting).

Off: On screen displays do not appear when you press any buttons except **SET UP MENU**, **SEARCH MODE**, **PLAY MODE**, **MARKER** and **OSD**.

4 To make SETUP screen disappear, press **SET UP MENU**.

Status display of disc

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

DVD

00:34:56 01:12:33 ➡ ▶ 00:34:56 01:12:33
Title 1/99 Chapter 1/999 1/9
1/8 Eng Dolby Digital
1/32 Eng

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

VIDEO CD

00:12 04:32 ➡ ▶PBC 00:12 04:32
Track –/–

AUDIO CD

▶ 34:56 71:33
Track 11/99

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

Dynamic Range Control

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

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.

Preparation:
- Turn ON the TV and set to the video input mode.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

1 Press **SET UP MENU** in the stop mode. Press ◀ or ▶ to select "Sound".

Language Picture Sound Parental Other
◀▶▲▼/Enter/Setup/Return

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

Language Picture Sound Parental Other
DRC Std
◀▶▲▼/Enter/Setup/Return

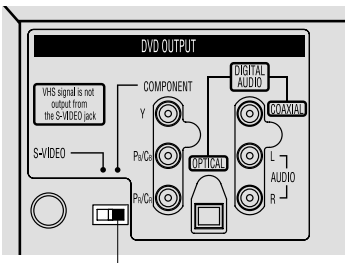
3 Press ▶ or **ENTER**, then press ▲ or ▼ to select desired setting.

Language Picture Sound Parental Other
DRC Std Max Std Min
◀▶▲▼/Enter/Setup/Return

Max: Full dynamic range is increased.
Std: Full dynamic range is maintained.
Min: Dynamic range is reduced.

Progressive scan

The unit supports the Progressive scanning system as well as the conventional interlaced scanning system. If your television or monitor equipped with component jacks support the progressive video input, you can enjoy a high quality picture by making the Progressive scanning modo active.



S-VIDEO/COMPONENT
Video selector switch

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.
- Make sure **TV/VCR/DVD** switch has been slided to VCR/DVD. Then press **DVD** to select the DVD mode. (The DVD indicator will light.)

1 Press **PROGRESSIVE** in the stop mode. The PROGRESSIVE indicator "P" on the display window is lit.
- The unit recognizes the picture type (film or video source) of the current disc according th the disc information.

2 Press **PLAY** to start playback.
- To make the progressive scanning mode inactive, press **PROGRESSIVE** in the stop mode. The PROGRESSIVE indicator "P" on the display window is not lit.

About SCANNING MODE

To display video on the television (monitor) screen, the conventional scanning method is called "Interlaced scanning." With this method, only half of the horizontal lines are displayed at a time. So two fields complete a single picture (frame); i.e., the first field, containing all the odd-numbered lines, is displayed followed by the second field, containing all the even-numbered lines.
On the other hand, the Progressive scanning system scans all horizontal lines at a time, so you can double the number of pictures compared with the interlaced scanning, resulting in flicker-free, high-density picture.

To enjoy the progressive scanned video, a monitor (or TV or projector) to be connected to the unit must have the Progressive inputs.
Depending on the material source format, DVD VIDEO discs can be classified into two types; film source and video source (note that some DVD VIDEO discs contain both film source and video source). Film sources are recorded as 24-frame-per-second information, while (NTSC) video sources are recorded as 30-frame-per second (60-field-per-second interlaced) information.
When the unit plays back a film source material, uninterlaced progressive output signals are created using the original information.
When a video source material is played back, the unit interleaves lines between the interlaced lines on each to create the interpolated picture and putputs as the progressive signal.

NOTES:
- Some discs may not be played back with the progressive scanning mode correctly because of the disc characteristics or recording condition.
- There are some progressive TV and High-Definition TV sets that are not fully compatible with the unit, resulting in the unnatural picture when playing back a DVD VIDEO disc in the Progressive scanning mode. In such a case, use the Interlaced scanning mode. To check the compatibility of your TV set, contact your local JVC customer service center.
- 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/PROGRESSIVE video selector swich is set to S-VIDEO positon.

Language code list

Enter the appropriate code number for the initial settings “Audio”, “Subtitle” and/or “Menu” (see pages 54-56).

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

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Problems and troubleshooting

Use the following check list for troubleshooting when you have problems with your unit. Consult your local dealer or service outlet if problems persist.
Be sure all connections are properly made when using with other units.

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
DVD/VCR		
DVD/VCR does not operate.	• Make sure the power cord is plugged in. • Try another AC outlet. • Power is off, check fuse or circuit breaker. • Unplug unit, then plug it back in. • Select the DVD or VCR mode before operating. • Make sure TV/VCR/DVD switch has been slided to VCR/DVD.	5 – – 5 20,38 20,38
No picture.	• Antenna connection is not correct or antenna cable is disconnected. • The video channel is not in the correct position or the TV is not set to the video channel 3 or 4. • Check the unit is connected correctly. • The video input selector of the TV is not set to VIDEO. Set to VIDEO (or equivalent). • Channel is set to the external mode.	14~17 20 14~19 – –
No sound.	• Check the unit is connected correctly. • Check the input selector of the amplifier is set properly. • The unit is in the Special playback mode.	14~19 – 28,40
The remote control does not function.	• Aim the remote control at the remote sensor. • Operate within Approx. 5 Meters or reduce the light in the room. • Clear the path of the beam. • The batteries are weak. Replace the batteries. • Check the batteries are inserted correctly. • Check the frequency code is set correctly.	11
The DVD-keys on the RCU of the other JVC RECEIVER/TV is not effective.	• This is not a defect. Since this unit is combined type of DVD and VCR, the remote code of DVD is individual.	12,13
No CATV reception	• Check all CATV connections. • Station or CATV system problems, try another station.	16,17
No POWER but a picture appears on the TV screen.	• During the Auto Clock operation, a video signal can be put out. Please set the clock with Manual clock setting or wait until the Auto Clock operation completed.	25
VCR		
TV recording does not work.	• The erase prevention tab of the video cassette is broken off. • The unit is in the external input mode.	26,30
Timer recording does not work.	• The time is not set correctly. • The recording start/end time is not set correctly. • The TIMER has not been pressed (⊡ is not lit).	23,25 33 33
Noise bars on screen.	• Tracking adjustment beyond range of automatic tracking circuit. Try Manual tracking adjustment. • Video heads are dirty. • The tape is worn or damaged.	28 63 –
DVD		
Display is not shown in your language.	• Select proper language in the menu options.	38
Playback doesn't start.	• No disc is inserted. • The disc may be dirty. Clean up the disc. • The unit cannot play DVD-ROMs, etc.	39 37 37

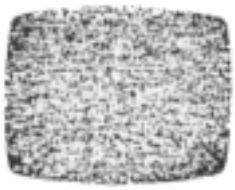
SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
No picture, or the screen is blurred or divided into two parts.	• The S-VIDEO/COMPONENT selecter is not set correctly. • The progressive scanning mode is active through the unit is connected to a TV via the VIDEO OUT jack.	18 60
Stopping playback, search, slow-motion play, repeat play, or program play, etc. cannot be performed.	• Some discs may not do some of the functions.	–
No 4:3 (16:9) picture	• The setup does not match your TV.	57
No on-screen display	• Select Display On.	58
No surround sound	• The setup does not match your stereo system.	19
The unit or remote operation key is not functioning.	• Turn off the unit and unplug the AC power cord for several minutes, then replug it.	–
Playback does not start when the title is selected.	• Check the Parental setup.	52
Audio soundtrack and/or subtitle language is not changed when you play back a DVD.	• Multilingual language is not recorded on the DVD disc.	55,56
No subtitle	• Some discs have no subtitles. • Subtitles are cleared. Press SUBTITLE.	51
Angle cannot be changed.	• Multi-angles are not recorded on the DVD disc.	51
✋ appears on the screen.	• The function is prohibited with the unit or the disc.	39

Video head cleaning

Video head clogging

The video heads are the means by which the DVD/VCR reads the picture from the tape during playback. In the unlikely event that the heads become dirty enough to be clogged, no picture will be played back. This can easily be determined if, during playback of a known good tape, there is good sound, but no picture (picture is extremely snowy). If this is the case, have the DVD/VCR checked by qualified service personnel.

Good Picture



Snowy Picture

NOTES:
- DO NOT ATTEMPT TO CLEAN THE VIDEO HEADS OR SERVICE THE UNIT BY REMOVING THE REAR COVER.
- Video heads may eventually wear out and should be replaced when they fail to produce clear pictures.
- To help prevent video head clogging, use only good quality VHS tapes. Discard worn out tapes.

Notes

Auto Clock Setting

Notes for Canadian customers regarding the clock feature of your DVD/VCR.

The XDS signals are carried only by certain broadcast television stations (for example, the signal is carried by most Public Broadcasting Service stations). You must be able to receive a station carrying the XDS signal to use the Auto Clock Setting to set your DVD/VCR's internal clock. If you live in an area that does not broadcast XDS signals, you must set the clock manually. Please see page 25 for instructions on how to manually set your DVD/VCR's clock.

Special note for residents of Newfoundland:

The Auto Clock Setting cannot be used to set the DVD/VCR's internal clock to Newfoundland time. The time zone command does not include a setting for the Newfoundland time zone. Trying to use the Auto Clock Setting in the Newfoundland time zone could result in an incorrect time setting or no setting at all. Please set your DVD/VCR's clock using the Manual Clock Setting.

Specifications

GENERAL

Power supply:	AC 120V 60Hz
Power consumption:	Operation: 18W
	Stand by: 2W
Weight:	7.9lbs (3.6 kg)
Dimensions:	Width : 16-15/16 inches (430 mm)
	Height: 3-7/8 inches (99 mm)
	Depth : 9-13/16 inches (249 mm)
Inputs/Outputs:	
Video:	In: 1Vp-p/75 ohm
	Out: 1Vp-p/75 ohm
Audio:	In: –8 dBm/50k ohm
	Out: –8 dBm/1k ohm
Antenna:	UHF/VHF IN/OUT: 75 ohm coaxial
Hi-Fi Frequency Response:	20Hz to 20,000Hz
Hi-Fi Dynamic Range:	More than 90dB

VCR section

Video Head:	4 Rotary Heads
Audio Track:	Hi-Fi Sound - 2 Tracks / MONO Sound - 1 Track
Tuner:	181 Channel Freq. Synthesized
	VHF 2-13
	UHF 14-69
	CATV 14-36 (A)-(W)
	37-59 (AA)-(WW)
	60-85 (AAA)-(ZZZ)
	86-94 (86)-(94)
	95-99 (A-5)-(A-1)
	100-125 (100)-(125)
	01 (5A)
RF Channel Output:	Channel 3 or 4, Switchable
F.FWD/REW Time:	Approx. 1 minute 48 seconds (with T-120 Cassette Tape) (at+25°C)

DVD section

Signal system:	NTSC
Applicable disc:	DVD (12cm, 8cm), CD (12cm, 8cm)
Audio characteristics:	DVD: 4Hz - 22kHz
Frequency response:	CD: 4Hz - 20kHz
S/N Ratio:	90dB
Harmonic distortion:	0.02%
Wow and flutter:	Less than 0.01% Wrms
Dynamic range:	More than 90dB
Output:	Video : (RCA) 1 Vp-p/75 ohm
	Audio : (RCA) –8 dBm/1k ohm
	Digital Audio : 0.5Vp-p 75 ohm
Pickup:	CD : Wavelength: 775 - 805 nm
	Maximum output power: 0.5 mW
	DVD : Wavelength: 640 - 660 nm
	Maximum output power: 1.0 mW

ACCESSORIES:

Remote control x 1
Batteries (2 x AA)
75 ohm Coaxial Cable x 1
AUDIO/VIDEO Cable x 1

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FOR SERVICING (Only in U.S.A.)

HOW TO LOCATE YOUR JVC SERVICE CENTER

TOLL FREE: 1-800-537-5722

http://www.jvc.com

Dear Customer,

In order to receive the most satisfaction from your purchase, please read the instruction booklet before operating the unit. In the event that repair is necessary, or for the address nearest your location within the Continental United States, please call 1-800-537-5722 for your nearest authorized servicer or visit our website at www.JVC.com. Remember to retain your Bill of Sale for Warranty Service.

— JVC

JVC SERVICE & ENGINEERING COMPANY OF AMERICA

DIVISION OF JVC AMERICAS CORP.

Sophisticated electronic products may require occasional service. Just as quality is a keyword in the engineering and production of the wide array of JVC products, service is the key to maintaining the high level performance for which JVC is world famous. The JVC service and engineering organization stands behind our products.

NATIONAL HEADQUARTERS
JVC SERVICE & ENGINEERING COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.
10 New Maple Avenue
Pine Brook, NJ 07058-9641

ACCESSORIES

To purchase accessories for your JVC product, you may contact your local JVC Dealer.
From the 48 Continental United States call toll free: 1-800-882-2345 or on the web at www.JVC.com

Don't service the product yourself.

CAUTION

To prevent electrical shock, do not open the cabinet.
There are no user serviceable parts inside.
Please refer to qualified service personnel for repairs.

WARRANTY (Only in U.S.A.)

LIMITED WARRANTY CONSUMER VIDEO 1-90

JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original retail purchase for the period as shown below. (“The Warranty Period”)

PARTS	LABOR
1 YR	**90** DAYS

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If this product is found to be defective, JVC will repair or replace defective parts at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products and parts thereof may be brought to a JVC authorized service center on a carry-in basis except for Television sets having a screen size 25 inches and above which are covered on an in-home basis.

WHAT YOU MUST DO FOR WARRANTY SERVICE:

Return your product to a JVC authorized service center with a copy of your bill of sale. For your nearest JVC authorized service center, please call toll free: (800) 537-5722.

If service is not available locally, box the product carefully, preferably in the original carton, and ship, insured, with a copy of your bill of sale plus a letter of explanation of the problem to the nearest JVC Factory Service Center, the name and location of which will be given to you by the toll-free number.

If you have any questions concerning your JVC Product, please contact our Customer Relations Department.

WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
2. Initial installation and installation and removal for repair;
3. Operational adjustments covered in the Owner’s Manual, normal maintenance, video and audio head cleaning;
4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
5. Signal reception problems and failures due to line power surge;
6. Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase;
7. Accessories;
8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase);

There are no other express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

JVC COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.

1700 Valley Road
Wayne, New Jersey 07470

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAILS OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

For customer use:

Enter below the Model No. and Serial No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No.: _____ Serial No.: _____

Purchase date: _____ Name of dealer: _____

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MEMO

JVC

VICTOR COMPANY OF JAPAN, LIMITED

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