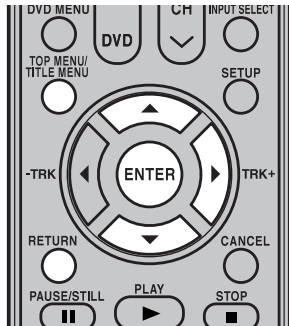# MP3/WMA/JPEG/DivX® playback

MP3 CD
- MP3 files must have the extension letters ".mp3".
- Standard, sampling frequency, and the bit rate:
  MPEG-1 Audio
  32kHz, 44.1kHz, 48kHz
  32kbps to 320kbps (constant bit rate or variable bit rate)
- The recommend recording setting for a high quality sound is 44.1kHz of sampling frequency and 128kbps of constant bit rate.

WMA CD
- When creating a WMA disc, make sure that the copyright function is off. DRM (Digital Rights Management) files cannot be played back.
- WMA files must have the extension letters ".wma".
- Standard, sampling frequency, and the bit rate:
  WMA version 7 and 8
  32kHz, 48kbps
  44.1kHz, 48kbps to 192kbps
  48kHz,128kbps to 192kbps
- Music files recorded as mono, 48kHz, 48kbps cannot be played back by this unit.

Playing back MP3/WMA files

1 Press ▲ or ▼ to select MP3 or WMA file.
- In case the disc includes more than 10 files, you can turn to the next or the previous page. (See page 43.)
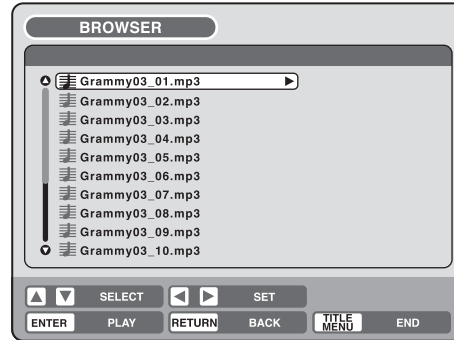
2 Carry out either of the item **a** or **b** below.
　　　a: Press **ENTER**.
　　　b: Press ▶ to select "PLAY" and press **ENTER**.
The TRACK INFO screen appears to playback the selected file. For the details of the TRACK INFO screen, see "Various operations on CD" on page 43.
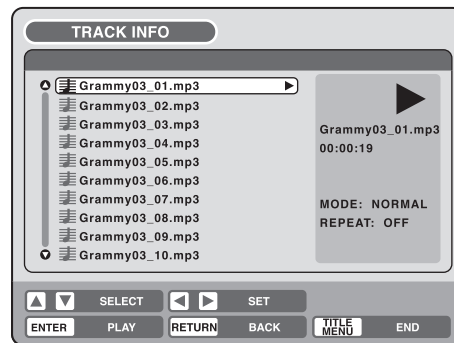

3 To return to the BROWSER screen, press **RETURN**.
- To stop playback of the MP3 or WMA files, press **TITLE MENU**.

This DVD/VCR requires discs and recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 or WMA files) and these require certain pre-existing conditions (see above) to ensure compatible playback. Because this area of technology is still evolving, Toshiba cannot guarantee that all recordable discs will produce optimal playback quality. The technical criteria set forth in this owner's manual are meant only as a guide.
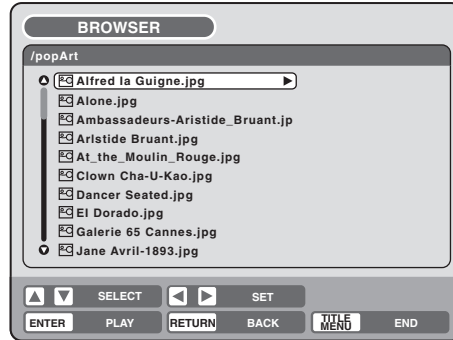
Please be advised that you must obtain permission from the applicable copyright owners to download copyrighted content, including music files, in any format, including the MP3 and WMA formats, prior to the downloading thereof. Toshiba has no right to grant and does not grant permission to download any coprighted content.

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MP3/WMA/JPEG/DivX® playback

🔘 CD
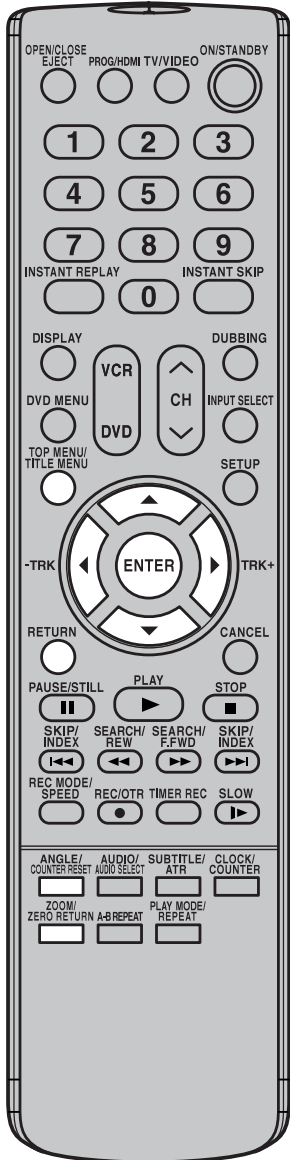
Playing back JPEG files

1 Press ▲ or ▼ to select JPEG file.
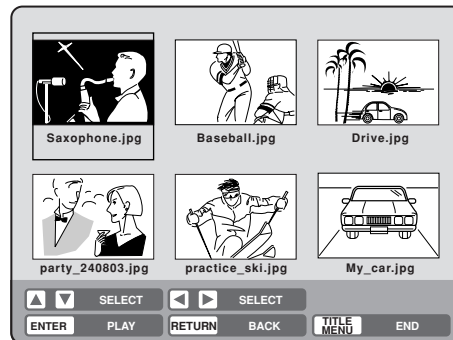- In case the disc includes more than 10 files, you can turn to the next or the previous page. (See page 43.)

BROWSER

/popArt

⊙ 🔳 **Alfred la Guigne.jpg** ▶
　🔳 Alone.jpg
　🔳 Ambassadeurs-Aristide_Bruant.jp
　🔳 Arlstide Bruant.jpg
　🔳 At_the_Moulin_Rouge.jpg
　🔳 Clown Cha-U-Kao.jpg
　🔳 Dancer Seated.jpg
　🔳 El Dorado.jpg
　🔳 Galerie 65 Cannes.jpg
⊙ 🔳 Jane Avril-1893.jpg

▲ ▼	SELECT	◀ ▶	SET
ENTER	PLAY	RETURN BACK	TITLE MENU END

2 Carry out either of the item **a** or **b** below.
　　a: Press **ENTER**.
　　b: Press ▶ to select "PLAY" and press **ENTER**.
The thumbnail images of the JPEG files stored in the route directory or the folder appear.
Press ▲, ▼, ◀ or ▶ to select the pages of the thumbnail images, or select the JPEG file to be displayed at first for the slide show.

Saxophone.jpg　　Baseball.jpg　　Drive.jpg

party_240803.jpg　　practice_ski.jpg　　My_car.jpg

▲ ▼	SELECT	◀ ▶	SELECT
ENTER	PLAY	RETURN BACK	TITLE MENU END

3 Press **ENTER** to play the selected picture.
If you have set the interval time for JPEG slide show, the pictures will be played back one after another automatically. (See page 33.)
- Press **ZOOM** to enlarge the displayed image.
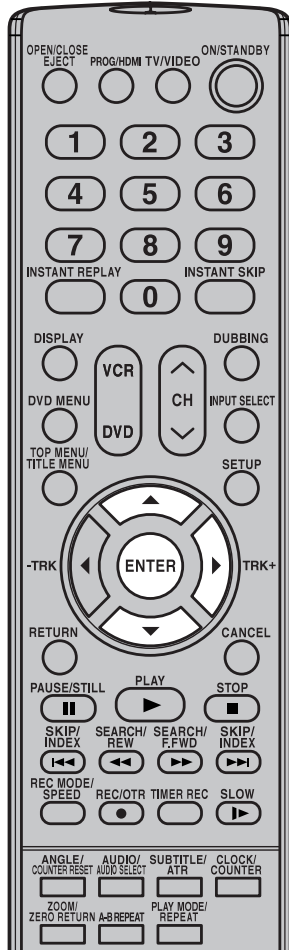- Press **ANGLE** to rotate the image by 90 degrees each time.

4 To return to the thumbnail screen, press **RETURN**.
- To stop the slide show, press **TITLE MENU**.
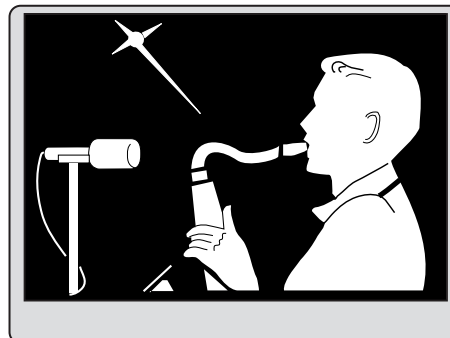
JPEG CD
JPEG files must have the extension letters ".jpe", ".jpeg" or ".jpg".

Disc playback

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MP3/WMA/JPEG/DivX® playback

CD

DivX® video specifications
- DivX® file must have the extension letters ".avi" ".div" or ".divx"
- DivX® version: DivX® 3, 4, 5, and 6 (specifically 3.1.1, 4.1.2, 5.0.2, 5.0.5, 5.1.1, 5.2.1, 6.0 at Home Theater profile).
  Audio format:
  MPEG1 Layer2 (MP2), MPEG1 Layer3(MP3)
  Bit rate: 8kbps - 320kbps
  Sampling frequencies: 32kHz, 44.1kHz, 48kHz
  Resolution: Max 720 x 576 (at 25fps)
  Max 720 x 480 (at 30fps)

NOTE:
It may take a while to start to play DivX® video.
Please wait until picture appears on screen.
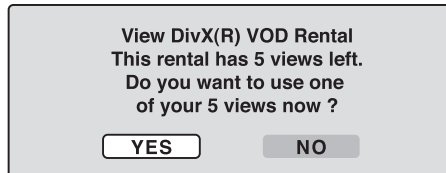
Playing back DivX® video files

1 Press ▲ or ▼ to select DivX® file.
  - If the disc includes more than 10 files, you can move to the next or previous page. (See page 43.)

```
┌─────────────────────────────────────┐
│  ( BROWSER )                         │
│                                      │
│  ▲  ▦ Video01.divx                   │
│     ▦ Video02.divx                   │
│     ▦ Video03.divx                   │
│     ▦ Video04.divx                   │
│     ▦ Video05.divx                   │
│     ▦ Video06.divx                   │
│                                      │
│  ▼                                   │
│                                      │
│  ▲ ▼  SELECT    ◄ ►    SET           │
│  ENTER  PLAY   RETURN  BACK  TITLE   │
│                              MENU END│
└─────────────────────────────────────┘
```
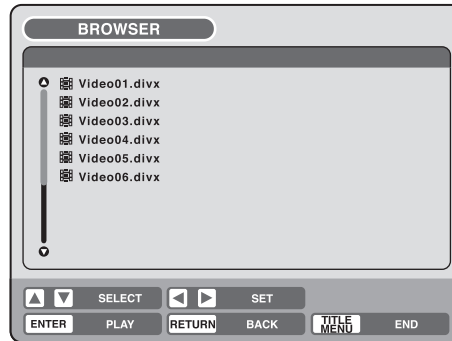
2 Carry out the item a or b listed below.
  a: Press ENTER.
  b: Press ► and then press ▲ or ▼ to select "PLAY" and press ENTER.
  The selected title is played back.
  - You can use Fast forward, Review, Still, Frame advance, SKIP ◄◄/►►, and Slow motion playback (See page 37).

If the incorrect DRM file is loaded, "Authorization Error This player is not authorized to play this video." will appear on the screen.
When you attempt to play DivX® VOD, the number of plays is limited and the following message will appear on the screen. If you wish to play it, select "YES".

```
┌──────────────────────────────────┐
│       View DivX(R) VOD Rental     │
│    This rental has 5 views left.  │
│      Do you want to use one       │
│        of your 5 views now ?      │
│                                   │
│       [ YES ]        NO           │
└──────────────────────────────────┘
```

- If the number of plays goes over the limit, then "Rental Expired" will be displayed, in which case the file will not be played.

Loading and unloading a cassette tape

VCR

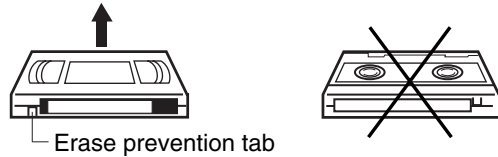**Use only video cassette tapes marked VHS and S VHS .**

SQPB

• Cassettes marked "VHS" (or "S-VHS") can be used with this video cassette recorder However, S-VHS recording is not possible with this model.
• This model is equipped with SQPB (S-VHS QUASI PLAYBACK) that makes it possible to playback S-VHS recordings with regular VHS resolution.
• HQ VHS is compatible with existing VHS equipment.

Loading

Push the center of the tape until it is automatically inserted.

S P   00.00.00
        H   M S

Automatic power ON

When you insert a cassette tape the VCR power will turn ON automatically.

Automatic playback

When loading a cassette tape without an erase prevention tab, playback will start automatically.
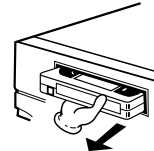
Insert the cassette tape with its labeled side facing up and the erase prevention tab positioned at your left. An inverted cassette tape cannot be inserted.

Erase prevention tab

Unloading

You can eject the video tape while the unit is turned off.

1 Press **EJECT** on the unit or the remote control.

⏏

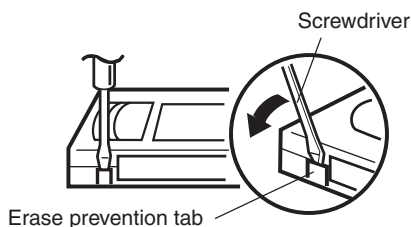**2** Remove the cassette tape.

Automatic tape eject

This VCR will automatically rewind the tape when the tape has ended. And when the tape is rewound to its beginning, the cassette tape will be ejected automatically.
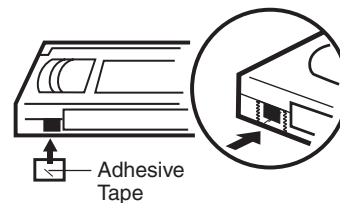
To prevent accidental erasure

Remove the erase prevention tab with a screwdriver.

Screwdriver

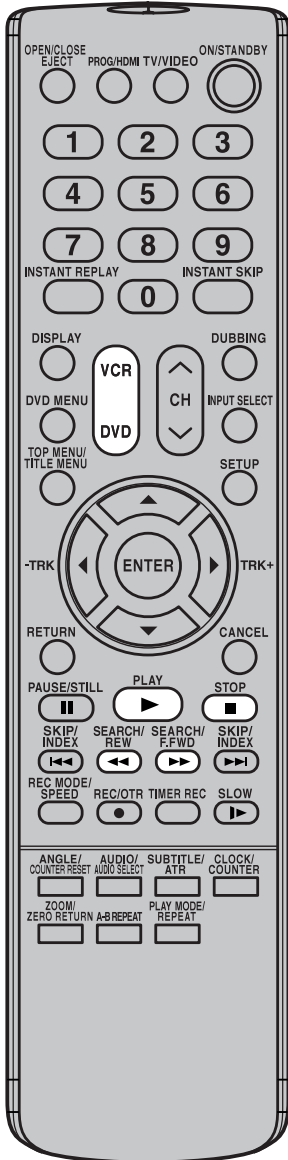Erase prevention tab

To record again

Cover the hole with a piece of adhesive tape.

Adhesive Tape

Tape speed and maximum recording time

| Tape Speed	Video cassette tape				
	T-160	T-120	T-90	T-60	T-30
SP (Standard Play)	2-2/3 hours	2 hours	1-1/2 hours	1 hour	30 minutes
SLP (Super Long Play)	8 hours	6 hours	4-1/2 hours	3 hours	1-1/2 hours

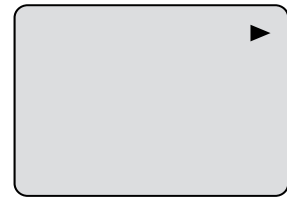Tape playback

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Cassette tape playback

Preparation:
• Turn ON the TV and set to the video input mode.
• Press **VCR** to select the VCR mode. (The VCR indicator will light.)

1 Load a prerecorded tape
(When loading a cassette tape
without the erase prevention
tab, playback will start automatically).
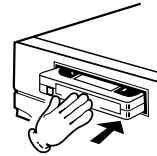
2 **To start playback**
Press **PLAY**.
Playback will start.
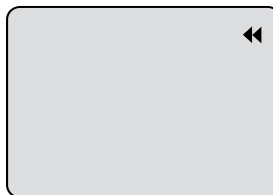" ▶ " will appear on the screen for about
4 seconds.

To stop playback
Press **STOP** once.
The tape will stop but remain fully
loaded and ready to play.
" ■ " will appear on the screen for about
4 seconds.

To rewind the tape or forward it rapidly
Press **STOP**.

To rewind the tape:

Press **REW**.

To forward the tape:

Press **F.FWD**.

To stop the tape-winding, press **STOP**. To switch to playback directly
(without **STOP**), press **PLAY**.

Forward/Reverse picture search mode
When the tape is being winded, you can switch to picture search mode
(see next page). To do this, press **REW** or **F.FWD** and hold it down. The
unit will resume the tape winding as soon as the button is released.

NOTES:
• This VCR selects the playback
tape speed SP, LP or SLP auto-
matically.
• It is impossible to switch to the VCR
mode during DVD playback.

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Special playback

VCR

Picture search

Reverse picture search function
Press **REW** x 1 or x 2 during the playback.
Forward picture search function
Press **F.FWD** x 1 or x 2 during the playback.
To return to playback: Press **PLAY**.

SPEED SEARCH TIMES

TAPE SPEED	PICTURE SEARCH SPEED	
	PRESS ONCE	PRESS TWICE
SP (Standard Play)	3 X	5 X
LP (Long Play)	7 X	9 X
SLP (Super Long Play)	9 X	15 X

Still picture

Press **PAUSE** during playback.
To resume normal playback: Press **PLAY** or **PAUSE**.

Slow motion

During playback press **SLOW**.
To return to playback: Press **PLAY** or **SLOW**.

Slow tracking and vertical lock adjustment

If noise bars appear in the picture during slow motion, press the **TRK +** or **–** to reduce the noise bars.
If the still picture jitters excessively, press **TRK +** or **–** to stabilize the still picture.

Frame by frame picture

Press **PAUSE** during playback.
Each time you press **SLOW**, the picture advances frame by frame.
To return to playback: Press **PLAY** or **PAUSE**.

Adjusting tracking condition

Automatic tracking adjustment

Whenever you insert a tape and start playback, automatic tracking starts working and continuously analyzes the signal to enable optimum picture quality during playback.

Manual tracking adjustment

If automatic tracking cannot eliminate noises well during playback, press **TRK +/–** to eliminate the noises. "MANUAL TR." will appear. Press it briefly for a fine adjustment, or press and hold for a coarse adjustment.

• Press **ATR** to reactivate automatic tracking again. "AUTO TR." will appear.

NOTES:

• The audio output is muted during SPEED SEARCH, STILL, FRAME ADVANCE and SLOW MOTION.
• During picture search mode there will be noise bars which are caused by the system.
• The Special Playback will automatically change to playback after approx. 5 minutes to protect the video tape against excessive wear.

Repeat playback

The entire video tape will be played until its end. The tape will then automatically rewind to the beginning and the playback will be repeated.

1 Press **REPEAT** while the VCR is playing back.

2 By pressing **REPEAT** each time, "REPEAT ON" or "REPEAT OFF" is selected in turn.
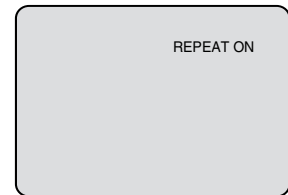
REPEAT ON

3 When "REPEAT ON" is selected, the tape is played back to the end, and then, it is automatically rewound to the starting point and played back again. The display "REPEAT ON" goes out in about 3 seconds.
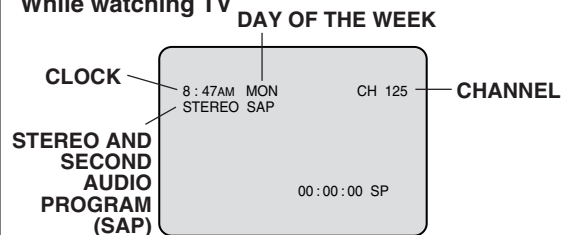To cancel repeat playback: Press **REPEAT** to select "REPEAT OFF".

Instant skip

Press **INSTANT SKIP** during playback.
The video is rapidly forwarded for approx. 30 seconds and playback resumes.
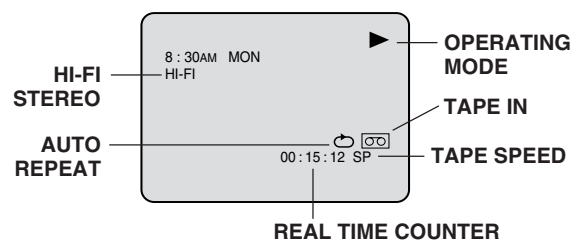You may press the button up to six times in a row to move 180 seconds ahead.

To display VCR operation status

Press **DISPLAY**. The clock, day of the week and more information will be indicated.
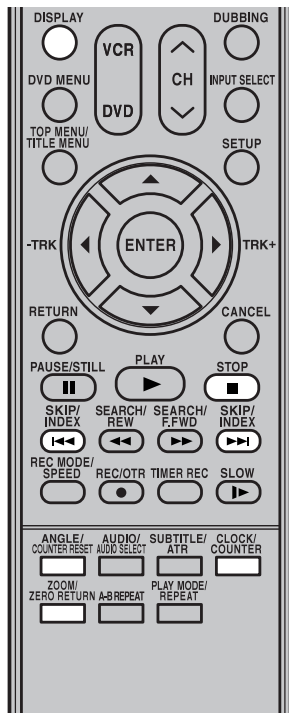
While watching TV

CLOCK — 8 : 47AM   MON   STEREO SAP   CH 125 — CHANNEL

DAY OF THE WEEK

STEREO AND SECOND AUDIO PROGRAM (SAP)

00 : 00 : 00 SP

While operating a tape

8 : 30AM   MON
HI-FI

HI-FI STEREO

► — OPERATING MODE

TAPE IN

AUTO REPEAT

00 : 15 : 12 SP — TAPE SPEED

REAL TIME COUNTER

To cancel the display: Press **DISPLAY** until all indicators disappear.

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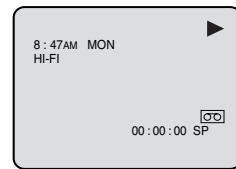
Tape playback

⊙ ZERO RETURN function / Video index search system

ZERO RETURN function

This function makes tape rewind-ing stop at the counter "00:00:00" position automatically.

NOTES for Counter Display:
• If you rewind the tape beyond "00:00:00", a minus sign ("–") will be displayed in front of the time.
• When you load a tape, the counter will reset to "00:00:00".
• The counter does not function on nonrecorded (blank) sections of the tape. When you rewind, fast forward or play tapes through blank sections, the counter stops.

NOTES for Video index search system:
• When you record an INDEX mark at the very beginning of the tape, the mark may not be found.
• During INDEX search, the tape may stop and begin to play at a slightly different location.
• INDEX may not function properly with old or worn out video tapes.
• INDEX marks may not be found if it is extremely close to the point where the search began.
• In recording, if you stop recording temporarily, the INDEX mark is not recorded on the tape.

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1 Press **DISPLAY**.
The counter display shows the tape running time during playback or recording.
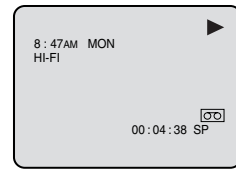
2 Press **COUNTER RESET** at the desired tape position. The counter display will be reset to the "00:00:00" position (e.g. the beginning of recording).

3 Press **STOP** when playback or recording is finished.
Press **ZERO RETURN**.
The tape will be rewound or fast forwarded and automatically stop at the "00:00:00" position.

Switching the display between clock and counter
Press **CLOCK/COUNTER**. The clock and tape counter alternate with each other in the display.
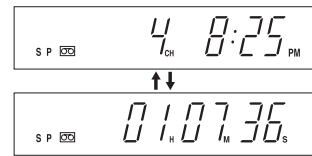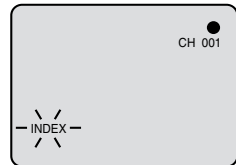
Video index search system
This function enables you to locate the beginning of any record-ing made on the VCR.

Recording an INDEX MARK
The Index search function automatically records an INDEX mark on the tape whenever a record-ing is initiated.

Index search
Press **INDEX** ▶▶| or |◀◀ during stop or play mode.
For Succeeding programs: Press **INDEX** ▶▶|.
For Preceding programs: Press **INDEX** |◀◀ .
(Additional press increases the INDEX NO. up to 9.)
When the **INDEX** ▶▶| or |◀◀ is pressed, the unit starts searching the INDEX NO. selected and finds the portion, then playback starts automatically.
To stop the Index Search, press **STOP**.

Read this before recording on disc

This section explains what you must know to record onto a disc. Read it before attempting to record.

NOTE:
Should a power failure occur or the AC cord plug be disconnected while recording, editing, initializing, finalizing or any other function, the program being recorded will be lost or the disc may not be playable. Manufacturer cannot guarantee against loss of program or disc should this occur. To start recording again, re-format the disc or use a new disc and follow the instruction on recording.

NOTES:
Recording time can change for the following reasons.
• When image quality is poor as during poor TV reception.
• When recording on a disc that has been edited before.
• When the video is followed with recordings of still images or just audio.

NOTE:
Because of characteristics peculiar to digital video compression technology, scenes with fast motion may appear as a matrix of larger blocks.

Types of disc
You can use DVD-RAM, DVD-RW and DVD-R discs to record video.

DVD-RAM/-RW (VR mode)
• This mode involves mutiple editing functions.
• Various editing options using a created Playlist.

DVD-RW/-R (Video mode)
• Simple editing (renaming titles).

For more information on recording format, see "Recording format" (page 10).

Recording modes
There are 4 modes for recording on disc. Recording time and quality vary according to mode.

Recording mode	Recording time	Quality
XP	Approx. 60 min	Can record high quality images.
SP	Approx. 120 min	Can record normal quality images.
LP	Approx. 240 min	Quality deteriorates slightly, but recording time is longer.
SLP	Approx. 360 min	Recording time is prioritized over quality.

• Recording time above is based on a 4.7GB disc.

Since DVD recording is performed using VBR (Variable Bit Rate), recording time varies according to the recorded content.
To know the correct recording time, stop recording and check the media information. (See page 36.)

Disc remaining time

VR mode
• Recording is possible as long as there is available space on the disc. (Finalized discs can be recorded by cancelling the finalization, see "UNDO FINALIZE" on page 29.)
• Erasing unnecessary title frees up available space on the disc. (Titles can be erased from finalized discs by first undoing the finalization. See "UNDO FINALIZE" on page 29.)

Video mode
• Up until the disc is finalized, recording is possible as long as there is available space on the disc. (Once the disc has been finalized, additional recording and erasing are not possible.)
• The remaining time cannot be increased, nor can recorded title be overwritten.
• Titles cannot be erased nor can recorded titles be overwritten.

Recording

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Read this before recording on disc

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs and other materials, is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and/or criminal liability.

Images that cannot be recorded

Some DVD-Video and broadcasts contain copy-restriction signals to protect copyrights. There are 3 types of copy-restriction signals: "Copy Free", "Copy Never" and "Copy Once".

"Copy Free" (unrestricted recording)

Land-based TV broadcasts and images you record yourself with a video camera allow unrestricted recording. There are no restrictions on recording.

"Copy Never" (recording prohibited)

• Images that contain the recording prohibited signal cannot be recorded.
• If the recording prohibited signal appears halfway through an image you are recording, recording is paused at that instant. When the recording prohibited signal ends, recording resumes.
• This unit incorporates a built-in copy guard. It cannot record software or broadcasted programs that contain copy restriction signals designed to protect copyright, etc.
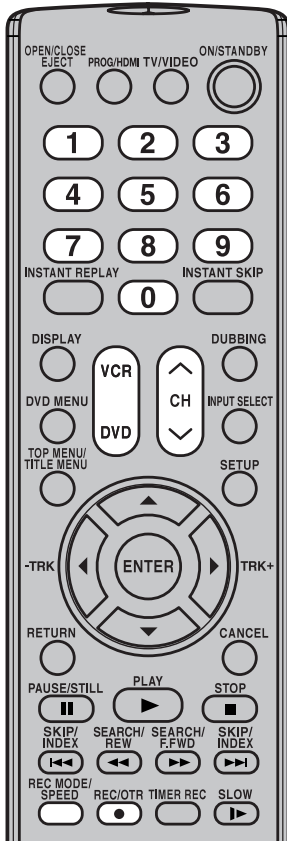
"Copy Once" (one-time recordable)

Programs (images) that contain the one-time recordable signal can be recorded only in the VR mode using a DVD-RW disc that supports CPRM Ver. 1.1 and Ver 1.2.

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Recording a TV program

RAM   VR   VIDEO   R   VCR

You can record programs you watch on TV onto video tapes or DVDs.

NOTES:
• When recording onto a DVD, it takes some time from when you press **REC/OTR** until recording actually starts.
  Press **REC/OTR** slightly earlier before the preferred starting point. With a video tape, recording starts almost at the same time as you press **REC/OTR**.
• If the erase prevention tab of video tapes is removed, the tape will eject when **REC/OTR** is pressed for recording.

Preparation:
• Turn ON the TV and set it to the video input mode.
• Load a recordable DVD or video tape into the unit.
• Press **DVD** or **VCR** to select the appropriate mode.

1 Press **REC MODE/SPEED** to select the recording mode.
The recording mode will appear on the TV monitor and change every time **REC MODE/SPEED** is pressed.
VCR recording modes: SP/SLP
DVD recording modes: XP/SP/LP/SLP

VCR mode

00 : 00 : 00 SP

DVD mode

SP
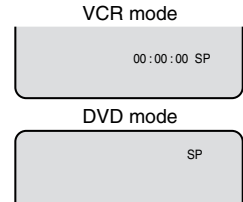
SP is the normal recording mode for video tapes. SLP offers 3 times the recording time as SP. For more information on DVD recording modes, see page 53.

2 Set the TV/CABLE option to the appropriate position (page 33).

TV   - VHF/UHF channels
CABLE - CABLE TV channels

3 Press the **numeric keys** or **CH ∧/∨** to select the channel to be recorded.

TO SELECT Cable TV CHANNELS:
1-9   Press **0** twice and then **1-9** as required.
           Example: To select 2, Press "**002**".
10-12   Press **0** first and then the remaining 2 digits in order from left to right.
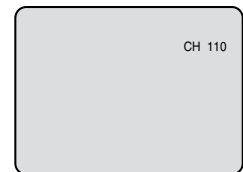   Example: Press **012** for "12".
13-99   Press 2 digits in order.
           Example: Press **22** for "22".
100-125   Press the 3 digits in order.
           Example: Press **110** for "110".
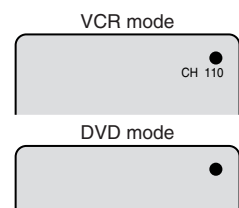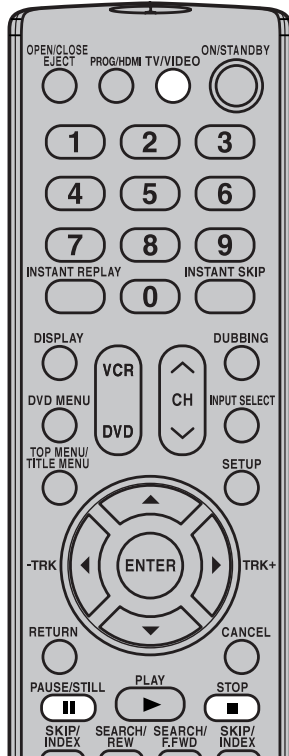
CH 110

TO SELECT TV CHANNELS 1-12:
If only 1 or 2 buttons are pressed, the corresponding channel will be selected in 2 seconds.

VHF/UHF/CABLE CHANNELS

TV	CABLE
VHF 2-13	VHF 2-13
UHF 14-69	STD/HRC/IRC 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)

4 Press **REC/OTR**.

" ● " appears on the screen for about 4 seconds and recording will start.

VCR mode

CH 110 ●

DVD mode

●

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Recording a TV program

RAM VR VIDEO R VCR

Auto Rewind feature
This VCR will automatically rewind the tape when the tape has ended (except during OTR and TIMER REC). It will also eject the tape.

NOTES:
• If the disc space become full, the recording is stopped and "Disc is full" will appear on the screen.
• In the event of a power failure during DVD recording including OTR and TIMER REC, the program can not be recorded on the disc.
When the power resumes, after the VCR/DVD is turned on, the set checks the disc to repair the error which is caused by a power failure. This checking process may require a few minutes to about 1 hour according to disc condition. In this process "SYSTEM ERROR PLEASE WAIT DISC CHECKING" will appear on the screen.

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To stop recording
Press **STOP** to stop recording.
" ■ " will appear on the screen for about 4 seconds.
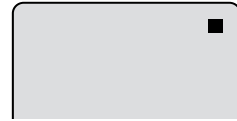
NOTE:
When recording onto a DVD, even if **STOP** is pressed during recording, recording does not stop instantly. Recording may continue for as long as 1 minute maximum.

To stop recording temporarily
Press **PAUSE/STILL** to avoid recording unwanted material.
" ●II " will appear on screen for about 4 seconds.
Press again to resume recording.

VCR mode

DVD mode
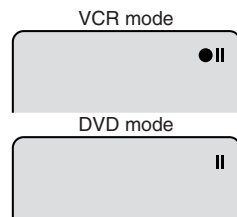
NOTES:
• In video recording, the pause function will be released after 5 minutes to prevent damaging the video tape. The unit will change to the STOP mode.
• When recording onto a video tape, you can select a recording channel in the recording pause mode. (You cannot change a recording channel in the DVD recording pause mode.)

Recording one program while watching another
While the unit is recording, press **TV/VIDEO** to select the TV position. The "TV" will light up on the display window and recording will continue. Select the TV channel you want to watch by using the TV channel selector.
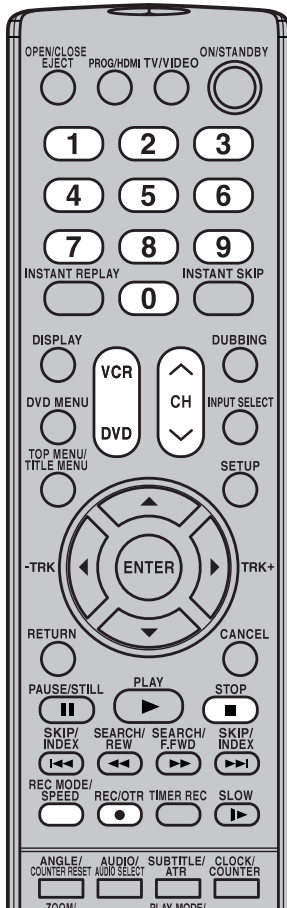
NOTE:
Some CABLE hookups do not permit viewing one channel while recording another. See pages 18, 19.

One-touch Timer Recording (OTR)

RAM VR VIDEO R VCR

The One-touch 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 VCR OTR, press **DVD** to change to DVD mode and perform the DVD playback. You can also playback the VCR during DVD OTR.
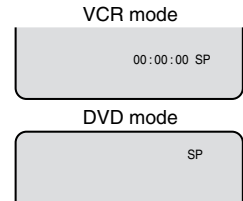
Preparation:
• Turn ON the TV and set to the video input mode.
• Load a recordable DVD or video tape into the unit.
• Press **DVD** or **VCR** to select the appropriate mode.

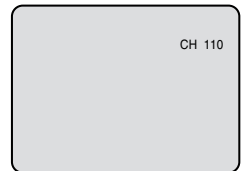**Example:** One-touch Timer Recording for 30 minutes.

1 Press **REC MODE/SPEED** to select the recording mode.
For the recording mode, see step **1** on page 55.

VCR mode
00:00:00 SP

DVD mode
SP

2 Set the TV/CABLE option to the appropriate position (See page 33).

TV - VHF/UHF channels
CABLE - CABLE TV channels

**3** Press **numeric keys** or **CH ∧/∨** to select the channel to be recorded.

CH 110

4 Press **REC/OTR**. Each additional press of **REC/OTR** will increase recording time as shown in the chart below, up to a maximum of 6 hours. The OTR and recording time will appear on the screen for about 4 seconds.

Press	Recording time	Press	Recording time
once	NORMAL REC	7 times	OTR 3:00
twice	OTR - : - -	8 times	OTR 4:00
3 times	OTR 0:30	9 times	OTR 5:00
4 times	OTR 1:00	10 times	OTR 6:00
5 times	OTR 1:30	11 times	NORMAL REC
6 times	OTR 2:00		

VCR mode
OTR 0:30
CH 110

DVD mode
OTR 0:30
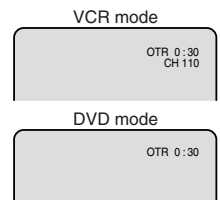
To cancel OTR
Press **STOP** or turn off the power.
" ■ " will appear on screen for about 4 seconds.
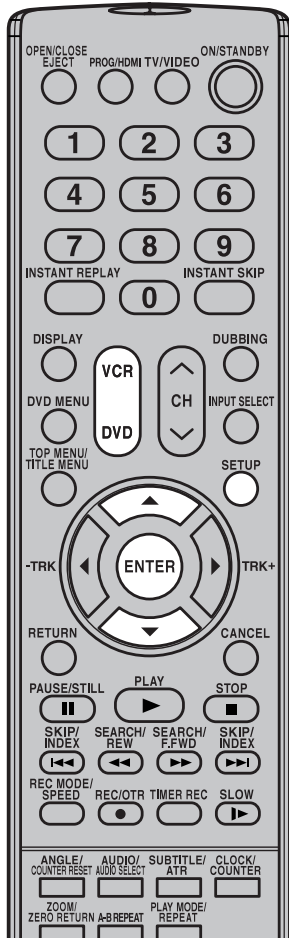
Recording

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Timer recording

RAM VR VIDEO R VCR
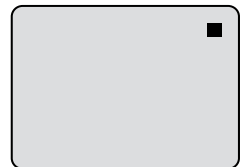
The timer recording system allows you to select the date, time and channel and record the desired programs. Up to 12 timer programs within a month can be stored in this unit.
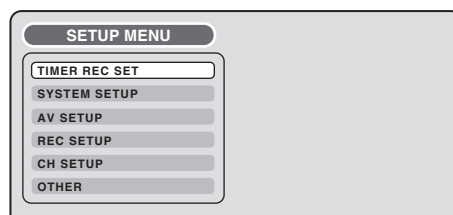
NOTE:
If a recordable tape is not inserted or no disc space is available, the timer record indicator "⌂" flashes. Replace the tape or disc to allow recording.

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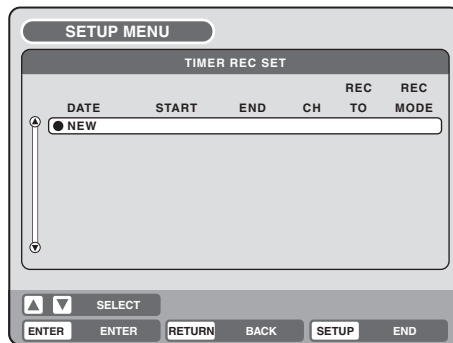
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Setting timer recording

Preparation:
• Turn ON the TV and set to the video input mode.
• Load a recordable DVD or video tape.
• Press **DVD** or **VCR** to select the appropriate mode.
• Confirm that the clock is indicating the correct time.

Example: Set the recording mode to LP; the TV program is on channel 12 starting at 8:00 PM and stopping at 9:30 PM on a date of 20th.
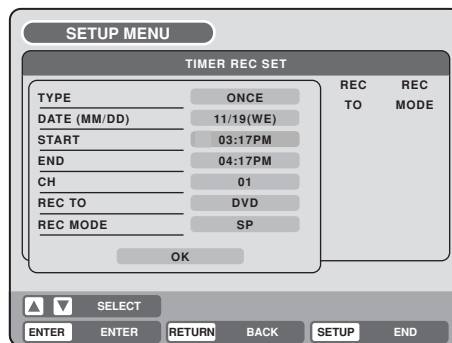
1 Press **SETUP**.
The SETUP MENU screen appears.

```
SETUP MENU

TIMER REC SET
SYSTEM SETUP
AV SETUP
REC SETUP
CH SETUP
OTHER
```

2 Press ▲ or ▼ to select "TIMER REC SET" and press **ENTER**.
The TIMER REC SET screen will appear.

```
SETUP MENU

TIMER REC SET
                              REC    REC
DATE      START    END    CH   TO    MODE
● NEW

▲ ▼   SELECT
ENTER   ENTER   RETURN   BACK   SETUP   END
```

3 Press ▲ or ▼ to select "NEW" and press **ENTER**.
The program screen will appear.

```
SETUP MENU

TIMER REC SET

TYPE              ONCE          REC    REC
DATE (MM/DD)      11/19(WE)     TO     MODE
START             03:17PM
END               04:17PM
CH                01
REC TO            DVD
REC MODE          SP

         OK

▲ ▼   SELECT
ENTER   ENTER   RETURN   BACK   SETUP   END
```

Timer recording

NOTES:
- If you select timer recording on a specified date only one time, select "ONCE" in the "TYPE" for recording. You can record same days of every week or from Monday to Friday using the item "TYPE". The items you can select are as follows:
  ONCE: Recording on the selected "DATE"
  EVERY SUN: Recording every Sun.
  EVERY MON: Recording every Mon.
  EVERY TUE: Recording every Tue.
  EVERY WED: Recording every Wed.
  EVERY THU: Recording every Thu.
  EVERY FRI: Recording every Fri.
  EVERY SAT: Recording every Sat.
 MON-FRI: Recording from Mon. to Fri.
  MON-SAT: Recording from Mon. to Sat.
  EVERYDAY: Recording everyday.
- The starting and stopping times for the recording are displayed on the 12-hour (am/pm) clock. Twelve o'clock midnight is displayed as "12:00AM", whereas twelve o'clock noon is displayed as "12:00PM".
- The initial setting of "REC TO" and "REC MODE" can be changed using "Setting the recording". (See page 32.)

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4 Press ▲ or ▼ to select "TYPE" and press **ENTER**.
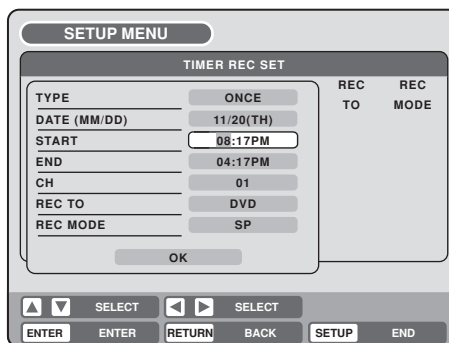Press ▲ or ▼ to select "ONCE" from the list and press **ENTER**.
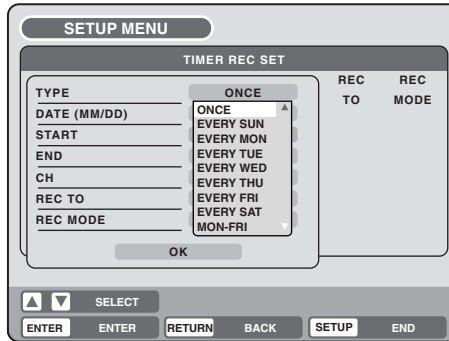
5 Press ▲ or ▼ to select "DATE" and press **ENTER**.
Press ▲ or ▼ to select the date to be recorded from the list and press **ENTER**.

6 Press ▲ or ▼ to select "START" and press **ENTER**.
Set the recording start time.
- To switch over the selection item (hour or minute), press ◀ or ▶, then press **ENTER**.
- Press ▲ or ▼ to adjust the time.
- After setting the time, press **ENTER**.

7 Press ▲ or ▼ to select "END" and press **ENTER**.
Set the recording end time and time in the same manner as in step 6.

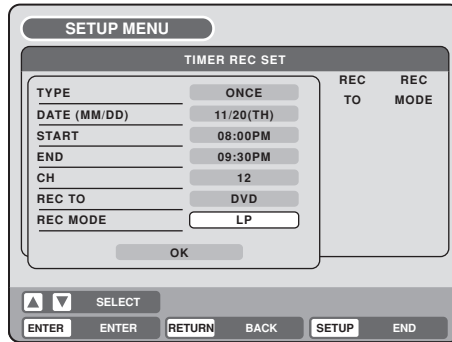**8** Press ▲ or ▼ to select "CH" and press **ENTER**.
- Press ▲ or ▼ to select the channel to be recorded.
- You can select the external input (L1 or L2) by pressing ◀ or ▶.

9 Press ▲ or ▼ to select "REC TO" and press **ENTER**.
Select the media (DVD or VCR) to be recorded from the list and press **ENTER**.

10 Press ▲ or ▼ to select "REC MODE" and press **ENTER**.
The recording modes for the media selected in "REC TO" item are listed up.
Select the recording mode and press **ENTER**.
For the recording modes in VCR, see page 49. For the recording modes in DVD, see page 53.

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Recording

Timer recording

NOTES:
- Recording starts a few seconds before the preset starting time.
- You cannot use the timer recording for the both DVD and VCR at the same time.
- You can playback the DVD during the VCR timer recording, and you can playback the VCR during the DVD timer recording.
- The timer recording program is stopped during timer recording, the stopped program is not erased from the timer recording list. In this case, please cancel the program, otherwise the stopped program will be activated if the unit returns to timer recording standby mode.

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11 Select "OK" and press **ENTER**.
The timer program is determined and the TIMER REC SET screen appears again.

12 When you enter the other program for the timer recording, repeat the steps **3** to **11**.

13 Press **SETUP**.
The TIMER REC SET screen disappears and the display will return to the normal screen.

14 Press **TIMER REC**. The timer indicator " �_ " will appear on the display and the unit stands by for recording.

Stopping the timer recording
After the timer recording has started, you can cancel the timer recording (but continue recording), or stop recording completely if you want.
To cancel the timer recording, press and hold **TIMER REC** for more than 2 seconds. The timer indicator " ⏒ " disappears from the display and recording continues. Press **STOP** to stop recording completely.

Checking or changing the timer recording
When you want to check the selected timer recording, follow the steps **1** and **2** of "Setting timer recording" and display the TIMER REC SET screen.
To change the timer recording, select the program to be changed and press **ENTER**. The changing method is the same as that for the recording a program for the first time.
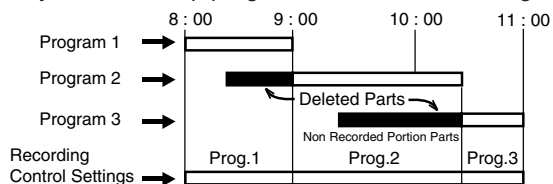
Cancelling the timer recording
Display the TIMER REC SET screen.
Select the program you want to cancel and press **CANCEL**, then the selected program will be erased from the timer recording list.

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.
In this case, the next recording time is delayed a maximum of about 1 minute.
If you set up many timer recording programs at the same start time, the priority will be the top program in the timer recording list.
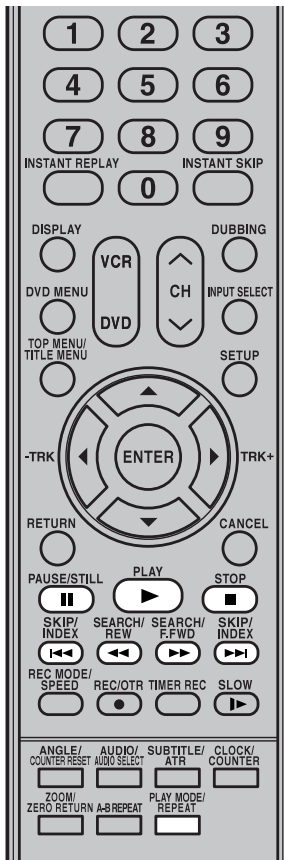
Chase Playback

RAM

You can begin playback from the beginning of a program currently being recorded. You will find this function of great advantage on long programs, as you do not have to wait for the end of recording to begin playback.

NOTES:
• Chase playback is not available when recording a DVD-RW/R disc and video tape.
• Chase playback is not available when recording in XP mode.
• Slow, Instant skip, Instant replay, A-B repeat, and Frame advance will not work during chase playback.
• Chase playback does not work until 30 seconds of recording have elapsed.
• If you press **DISPLAY** during chase playback, the information screen is displayed (see page 36).

1 While recording a TV program onto the DVD-RAM disc, press **PLAY** to start chase playback.
The TV program as it is being recorded will played back.

2 Locate a scene you want through the following operations if necessary.

Still playback:
Press **PAUSE**.
• To resume chase playback, press **PLAY**.

Fast forward/Review playback:
Press **SEARCH** ◄◄/►► . Every press **SEARCH**, it switches the speed of the search.
• To resume chase playback, press **PLAY**.
• If the playback position catches up to within about 60 seconds, chase playback resumes. It may differ depending on the recording condition and search speed.

Locating a chapter:
Press **SKIP** I◄◄/►►I to locate a chapter that you want to watch.
• If you press **SKIP** ►►I while playing back the newest chapter, it starts playing back from about 15 seconds before the recording position.

Locating a specific scene:
Press **PLAY MODE** enables you to do a Time Search or a Chapter Search. (See page 38.)

3 Press **STOP** to end chase playback.
If you press **STOP** again, the recording stops.

Recording

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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 and the program can be viewed or recorded in stereo.
The Hi-Fi STEREO recording procedure is the same as for normal recordings.
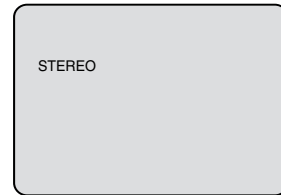
STEREO

NOTE:
When using a Cable TV 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.
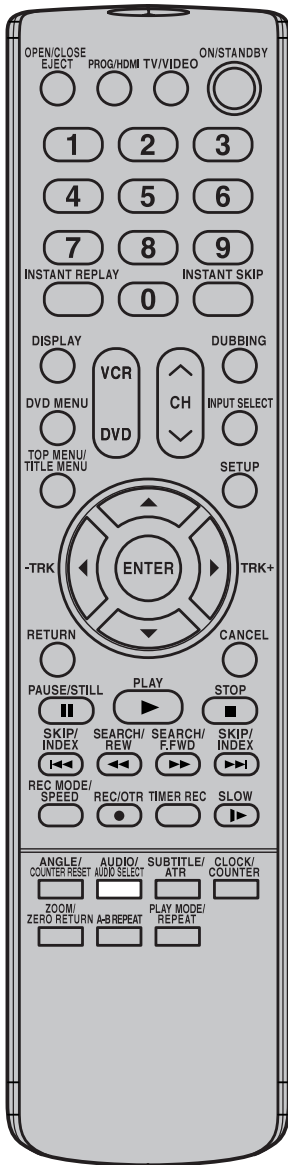
Output selection

When viewing an MTS STEREO TV program, or playing a prerecorded Hi-Fi STEREO on video tape, press **AUDIO SELECT** 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 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 monaural audio 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

Output selection for DVD

You can switch between the left or right channel and stereo only when playing a disc on which a bilingual broadcast was recorded in the DVD-RW VR mode. It is not possible to switch between channels otherwise as only the channel selected in the setting of SAP (Second Audio Program; ON or OFF) is recorded in the DVD-RW Video mode or DVD-R (see page 32).

NOTE:
When a stereo or monaural broadcast is recorded, either stereo or monaural, respectively, is played back and it is not possible to switch between channels.

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

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Editing the disc

This section explains how to edit the recorded contents on DVD-RWs. However, the items that you can edit vary with the recording formats. In VR mode, you can edit various title menus, whereas in Video mode, you can edit only a few items.

Title menu

When the content is recorded, a title name that includes the date, time, channel number and other information is created automatically.

The title menu can be used when you playback after confirming the contents (see page 35), or when you check the contents recorded on the disc.

Original title

The titles explained above are called original titles; these will be added with every recording. In VR mode you can do various editing operations i.e., you can rename the titles or add the chapter marks. In addition, you can erase the unnecessary titles to increase the disc space.

Playlist

You can create a playlist based on the original titles.

You can combine or erase undesired scenes.

If you create a playlist, it will become the primary list used by the disc. If you create a playlist to customize your viewing preferences, and choose to delete it, the original titles will not be affected. It is recommended to create and edit the playlist to prevent important titles from being erased accidentally.

If you create a playlist, both the original title and playlist will be displayed on the title menu.

Editable items

The items that can be edited are different between original title and playlist. For the disc in Video mode, only the title name can be edited. The items can be edited in each are as follows:

Editing items	VR mode		Video mode
	Original	Playlist	Original
Playback	Y	Y	Y
Adding chapter mark	Y	N	N
Combining chapters	Y	N	N
Erasing scenes	Y	Y	N
Erasing titles	Y	Y	N
Renaming titles	Y	Y	Y
Creating playlist	Y	N	N
Combining titles	N	Y	N

If you finalize the disc in Video mode, the title menu is automatically changed. Thumbnail image and recording information will not appear in the title menu affter finalizing.

Using these editing functions to modify copyrighted content for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

NOTES:
- This unit cannot record or edit a disc which was recorded or edited using another DVD recorder.
- You cannot edit or record the disc on which disc protection is set. In such a case, be sure to cancel the disc protection before starting the operation.
- When a scene has been erased, the selected position for erasing may vary slightly from the actual erased position.

Editing the disc

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Editing a playlist

**You can create and edit the playlist based on the original title.**
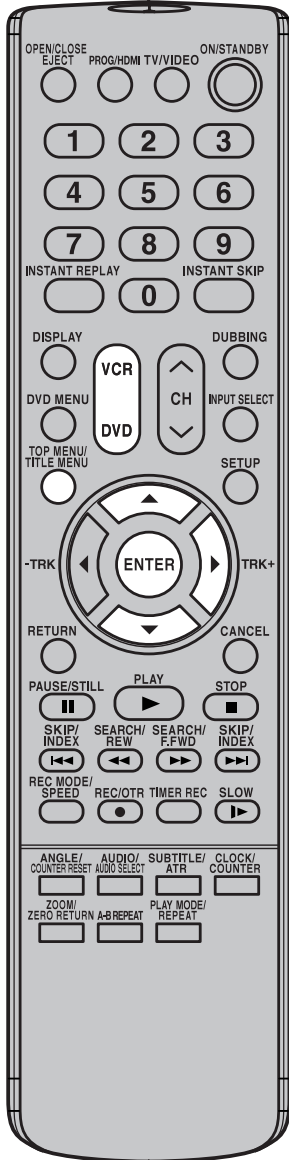
NOTES:
- A playlist can only be created with a DVD-RAM or a DVD-RW in VR mode. You cannot create a playlist with a DVD-RW in Video mode, nor with a DVD-R.
- In case the disc includes more than 9 titles, you can turn to the next or the previous page. (See page 35.)

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Preparation:
- Turn ON the TV and set to the video input mode.
- Load the recorded DVD-RAM/RW (VR).
- Press **DVD** to select the DVD mode. (The DVD indicator will light.)
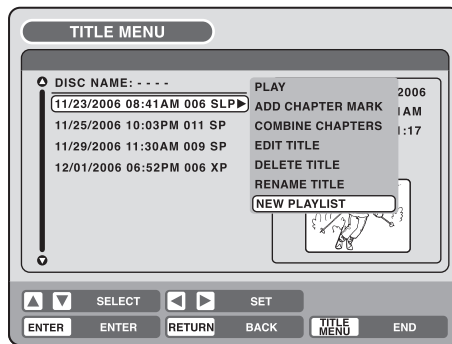
Creating a playlist RAM RW

1 Press **TITLE MENU**.
The title menu will appear.
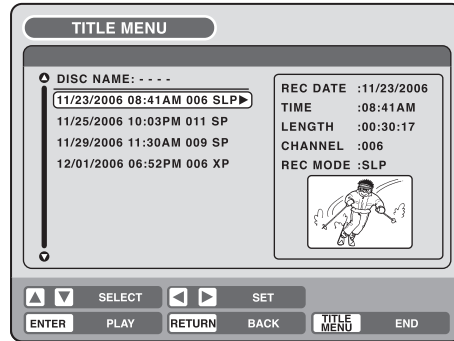
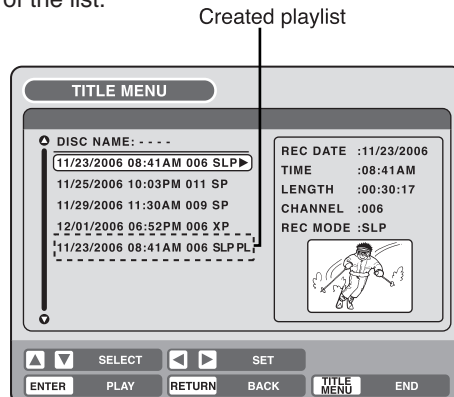**2** Press ▲ or ▼ to select the original title which will be used as the base of a playlist.

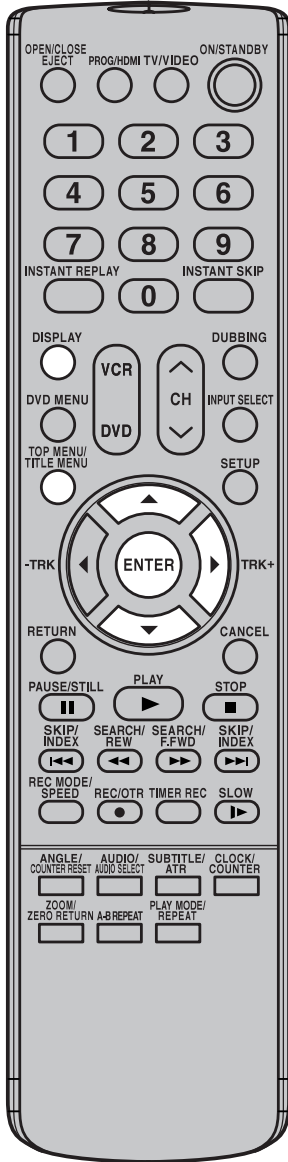**3** Press ▶.
The editing menu of original title will appear.

4 Press ▲ or ▼ to select "NEW PLAYLIST".

5 Press **ENTER**.
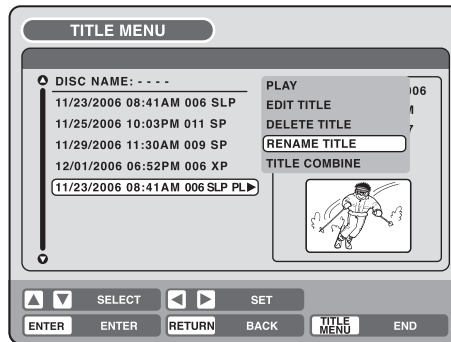The editing menu closes and the created playlist appears at the bottom of the list.

Created playlist

Editing a playlist

NOTES:
- The title name can be a maximum of 64 characters. Long names will be shortened in the title menu.
- For using the keyboard screen, see "Changing a disc name" (page 76).
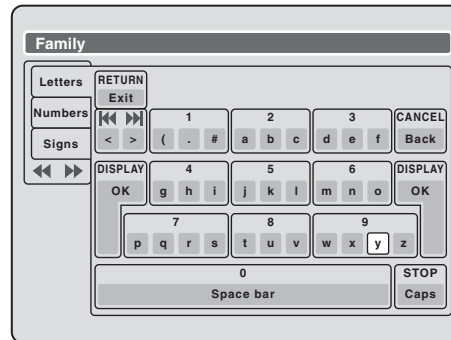
Changing a title name RAM VR

1 Press **TITLE MENU** to display the title menu.

2 Select the playlist where you want to change the title name.
- Press ▲ or ▼ to select the playlist.
- Press ▶ to display the editing menu of the playlist.
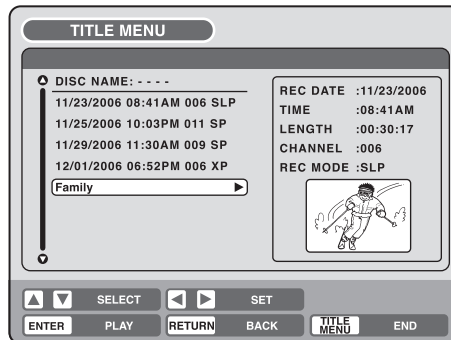- Press ▲ or ▼ to select "RENAME TITLE".

3 Press **ENTER**.
The keyboard screen will appear.

4 Use the keyboard screen to enter the title name.
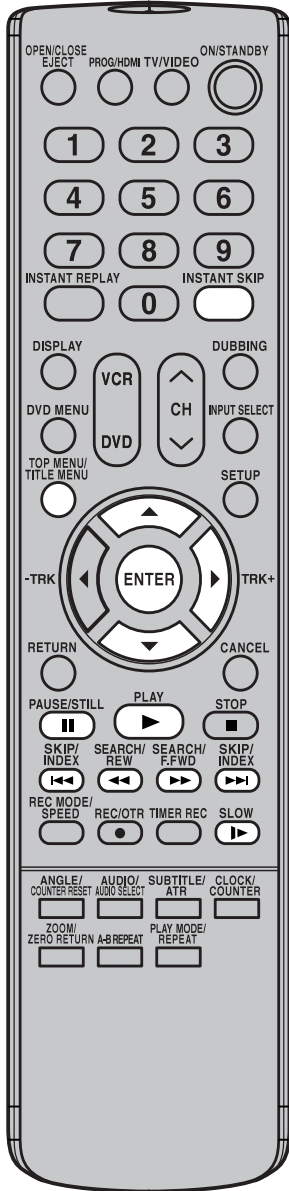

5 Press **DISPLAY** to return to the title menu.
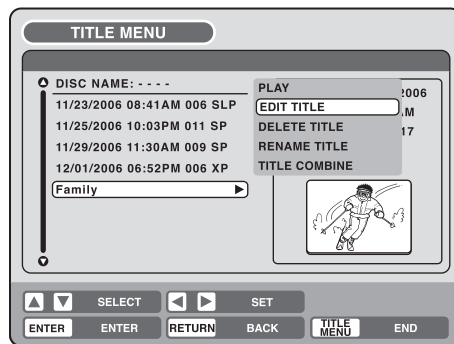
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Editing a playlist
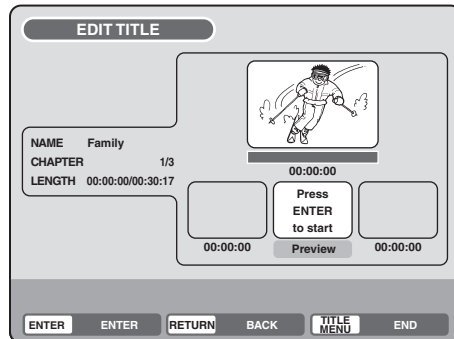

Erasing a scene (Edit title) RAM VR

You can erase an unnecessary scene from the created playlist.
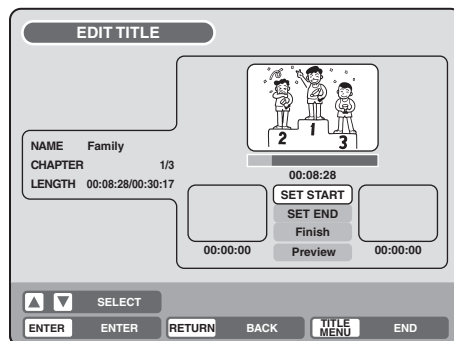When you erase the scene from the playlist, the scene is not erased from the original title.

1 Press **TITLE MENU** to display the title menu.

2 Select the playlist where a scene you want to erase is included.
- Press ▲ or ▼ to select the playlist.
- Press ▶ to display the editing menu of the playlist.
- Press ▲ or ▼ to select "EDIT TITLE".

```
TITLE MENU

DISC NAME: - - - -              PLAY
                                               2006
11/23/2006 08:41AM 006 SLP     EDIT TITLE       AM
11/25/2006 10:03PM 011 SP      DELETE TITLE     17
11/29/2006 11:30AM 009 SP      RENAME TITLE
12/01/2006 06:52PM 006 XP      TITLE COMBINE
Family                   ▶

▲▼  SELECT    ◀ ▶    SET
ENTER   ENTER   RETURN   BACK   TITLE MENU   END
```
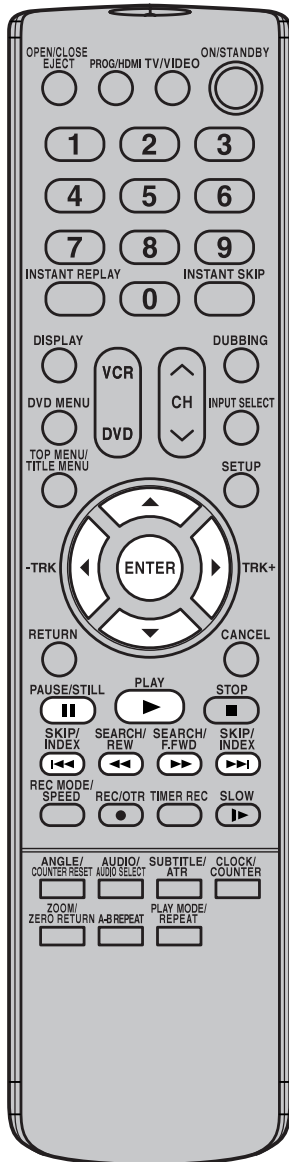
3 Press **ENTER**.
The EDIT TITLE screen will appear.

```
EDIT TITLE

NAME     Family
CHAPTER              1/3
LENGTH   00:00:00/00:30:17          00:00:00
                            Press
                            ENTER
                            to start
                     00:00:00   Preview   00:00:00

ENTER   ENTER   RETURN   BACK   TITLE MENU   END
```

4 Press **ENTER** to playback the playlist on the EDIT TITLE screen.
- Use each operation button (**F.FWD**, **REW**, **SKIP▶▶I**, **SKIP I◀◀**, **PLAY**, **PAUSE/STILL**, **SLOW**, **INSTANT SKIP**) for the playback to search the starting point of the scene you want to erase.

```
EDIT TITLE

NAME     Family
CHAPTER              1/3
LENGTH   00:08:28/00:30:17          00:08:28
                            SET START
                            SET END
                            Finish
                     00:00:00   Preview   00:00:00

▲▼  SELECT
ENTER   ENTER   RETURN   BACK   TITLE MENU   END
```
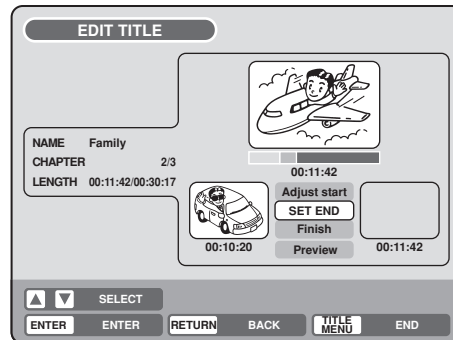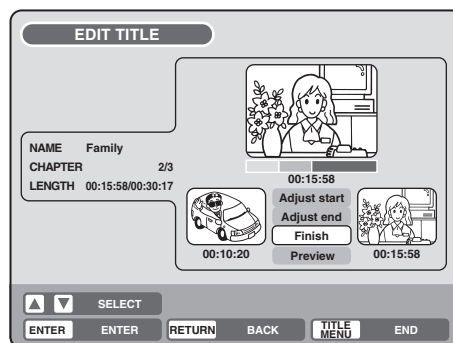
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Editing a playlist

NOTE:
It is no problem to omit the procedures for confirming the scene or adjusting start and end points.

5 Press ▲ or ▼ to select "SET START" at the start point of the scene that you want to erase and press **ENTER**. (To set the start point easily, search the start point while "SET START" is selected) The still image at the start point appears at the left small screen.

EDIT TITLE

NAME   Family
CHAPTER   2/3
LENGTH   00:11:42/00:30:17

00:11:42
Adjust start
SET END
Finish
00:10:20   Preview   00:11:42

▲ ▼   SELECT
ENTER   ENTER   RETURN   BACK   TITLE MENU   END

6 Press ▲ or ▼ to select "SET END" at the end point of the scene you want to erase and press **ENTER**.
The still image at the end point appears at the right small screen.

EDIT TITLE

NAME   Family
CHAPTER   2/3
LENGTH   00:15:58/00:30:17

00:15:58
Adjust start
Adjust end
Finish
00:10:20   Preview   00:15:58

▲ ▼   SELECT
ENTER   ENTER   RETURN   BACK   TITLE MENU   END

7 Check the erased scenes.
- Select "Preview" and press **ENTER**. Then the video where the scenes between the start and end points are erased is played back.
- Each operation button (**F.FWD**, **REW**, **SKIP▶▶I**, **SKIPI◀◀**, **PLAY**, **PAUSE/STILL**) for playback also can be used.

8 Adjust the start and end points.
- To adjust the start point, select "Adjust start" and press **ENTER**. You can change the start point by pressing ◀ or ▶.
- To adjust the end point, select "Adjust end" and press **ENTER**. You can change the end point in the same way as the start point.

9 If you determine the scene to be erased, press ▲ or ▼ to select "Finish" and press **ENTER**.
- A chapter mark is automatically added at the location of the erased scene.

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