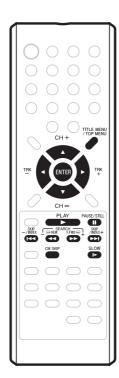## Erasing a scene (Edit title)
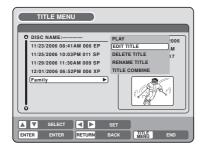
RAM   **VR mode**

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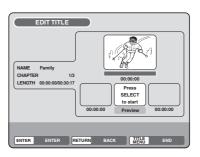When you erase the scene from the playlist, the scene is not erased from the original title.

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 EP    EDIT TITLE      M
  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
```
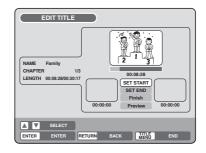
3 Press ENTER.
The EDIT TITLE screen appears.

```
EDIT TITLE

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

ENTER   ENTER   RETURN   BACK   TITLE MENU   END
```
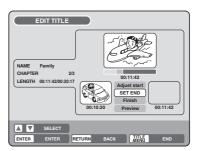
4 Press ENTER to playback the playlist on the EDIT TITLE screen.
Use each operation button (**F.FWD**, **REW**, **SKIP +**, **SKIP –**, **PLAY**, **PAUSE/STILL**, **SLOW**, **CM SKIP**) for the playback to search the starting point of the scene you want to erase.

```
EDIT TITLE

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

▲ ▼   SELECT
ENTER   ENTER   RETURN   BACK   TITLE MENU   END
```

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)
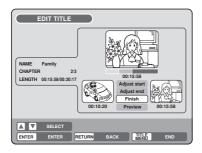The still image at the start point appears at the left small screen.

```
EDIT TITLE

NAME      Family
CHAPTER     2/3              00:11:42
LENGTH  00:11:42/00:30:17
                          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 +**, **SKIP –**, **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.

✎ **Note**
- It is no problem to omit the procedures for confirming the scene or adjusting start and end points.
- It is not possible to make any adjustments for 2 seconds after a title starts or 2 seconds before it ends.
- To set a start point at the beginning of a title, set it during countdown.
- The points during editing may be different from the preview.
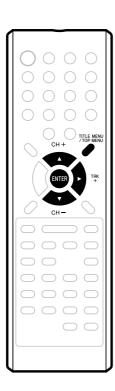- Start and end points are adjusted in units of 1 second.

Combining the title

RAM **VR mode**

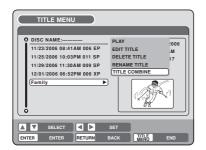You can create a playlist by combining the several original titles or playlists.

To combine the titles, it is necessary to create a playlist at first. By combining the titles in the playlist, a playlist where several titles are combined is created.
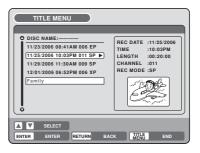

1   Press TITLE MENU to display the title menu.

2   Select the playlist where you want to combine the titles.
• Press ▲ or ▼ to select the playlist.
• Press ▶ to display the editing menu of the playlist.
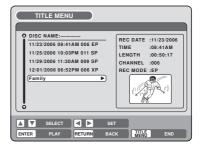• Press ▲ or ▼ to select "TITLE COMBINE".

3   Press ENTER.
Select the title that you want to combine from the title menu.

4   Press ENTER.
Following the playlist, the selected title is combined. The several titles were combined so that the total recording time is displayed.
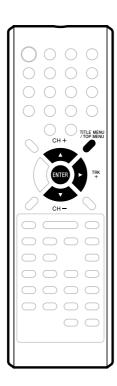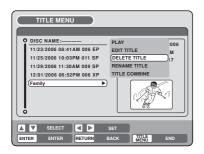
Erasing a playlist

RAM **VR mode**

You can erase the created playlist. Even if you erase the playlist, the original title will not be erased.
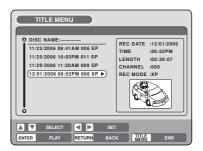
1 Press TITLE MENU to display the title menu.

2 Select the playlist that you want to erase.
- Press ▲ or ▼ to select the playlist.
- Press ► to display the editing menu of the playlist.
- Press ▲ or ▼ to select "DELETE TITLE".

```
┌─────────────────────────────────────┐
│     TITLE MENU                        │
├─────────────────────────────────────┤
│ ◯ DISC NAME:————     PLAY      :006  │
│  11/23/2006 08:41AM 006 EP  EDIT TITLE  M │
│  11/25/2006 10:03PM 011 SP  DELETE TITLE  :7 │
│  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 selected playlist will be erased.

```
┌─────────────────────────────────────┐
│     TITLE MENU                        │
├─────────────────────────────────────┤
│ ◯ DISC NAME:————   REC DATE :12/01/2006 │
│  11/23/2006 08:41AM 006 EP  TIME   :06:52PM │
│  11/25/2006 10:03PM 011 SP  LENGTH :00:30:07 │
│  11/29/2006 11:30AM 009 SP  CHANNEL :006 │
│  12/01/2006 06:52PM 006 XP ►  REC MODE :XP │
│ ◯                                    │
├─────────────────────────────────────┤
│ ▲ ▼  SELECT   ◄ ►  SET              │
│ ENTER  PLAY  RETURN  BACK  TITLE MEND  END │
└─────────────────────────────────────┘
```

Editing an original title

RAM **VR mode**

In VR mode, you can edit various items, whereas in Video mode, you can only edit the title names.

 Note

- You can automatically add a chapter mark in recording. For more information, see page 31.
- In case the disc includes more than 9 titles, you can turn to the next or the previous page. (See page 34.)

Preparation:
- Turn ON the TV and set to the video input mode.
- Load the recorded disc.
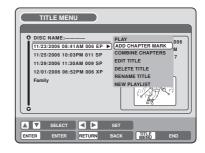- Press **DVD/VCR** to select the DVD mode. (The DVD indicator will light.)
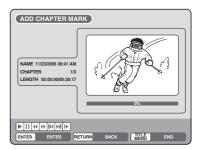
Adding a chapter mark

RAM **VR mode**

You can add a chapter mark to the original title. You can add up to 999 chapter marks to one disc.

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

2   **Select the original title where a chapter mark is added.**
- Press ▲ or ▼ to select the original title.
- Press ► to display the editing menu of the original title.
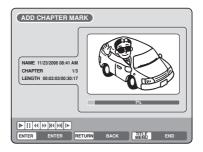- Press ▲ or ▼ to select "ADD CHAPTER MARK".

3   **Press ENTER.**
The ADD CHAPTER MARK screen will appear.

4   **Press PLAY to search a scene where you want to add the chapter mark.**
- Search the scene by using each operation button (**F.FWD**, **REW**, **SKIP +**, **SKIP –**, **PAUSE/STILL**, **SLOW**, **CM SKIP**) for the playback.
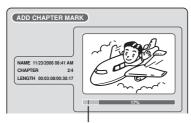
5 At the point in the scene you want to add the chapter mark, press ENTER.
The playback is paused and the position of the added chapter mark appears green.

ADD CHAPTER MARK

NAME 11/23/2006 08:41 AM
CHAPTER   2/4
LENGTH 00:03:08/00:30:17

17%

The added chapter mark

6 If you want to continue to add chapter marks, repeat step 5.
• To display the title menu, press **RETURN**.
• To return to the normal screen, press **TITLE MENU**.

Combining chapters
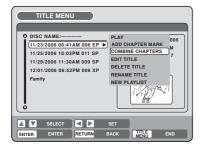
RAM **VR mode**

By erasing the added chapter marks, the chapters can be combined.

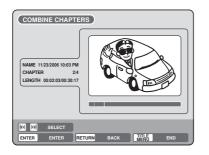

1   Press TITLE MENU to display the title menu.

2   Select the original titles where you want to combine the chapters.
- Press ▲ or ▼ to select the original title.
- Press ▶ to display the editing menu of original title.
- Press ▲ or ▼ to select "COMBINE CHAPTERS".

3   Press ENTER.
The COMBINE CHAPTERS screen will appear. At the beginning, the top still image in the chapter 2 is displayed.

4   Press SKIP + or SKIP – to select the chapter marks to be erased.

5   Press ENTER.
The chapter marks are erased and 2 chapters are combined into 1 chapter.

6   To continue erasing chapter marks, repeat steps 4 and 5.
- To display the title menu, press **RETURN**.
- To return to the normal screen, press **TITLE MENU**.
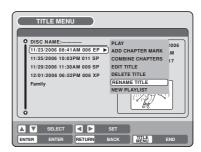
Changing an original title name

RAM **VR mode** **Video mode** **DVD-R**

You can only add title names to DVD-R and Video mode discs before they have been finalized.

1   Press TITLE MENU to display the title menu.

2   Select the original title that you want to rename.
- Press ▲ or ▼ to select the original title.
- Press ▶ to display the editing menu of original title.
- Press ▲ or ▼ to select "RENAME TITLE".

3   Press ENTER.
The keyboard screen will appear.
The entering method of the title name is the same as for the playlist. See the steps **4** and **5** of "Changing a title name" in "Editing a playlist" (page 67) and enter the title name.

✎ **Note**

- The title name can be a maximum of 64 characters in VR mode and a maximum of 30 characters in Video mode.
  Long names will be shortened in the title menu.
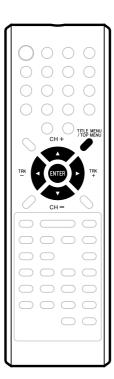- "RENAME TITLE" can only be used with DVD-R discs and video mode DVD-RW discs before they have been finalized.

Erasing a scene (Edit title)
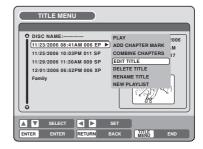
RAM **VR mode**

You can erase an unnecessary scene from the original title.
Erase the scene after checking the title. You cannot restore the erased scene.
When you erase the scene, you can increase the disc space.

1   Press TITLE MENU to display the title menu.

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

```
┌─────────────────────────────────────────────┐
│  TITLE MENU                                   │
│                                               │
│  ○ DISC NAME:——————    PLAY            :006  │
│  ┌───────────────────┐ ADD CHAPTER MARK  .M   │
│  │11/23/2006 08:41AM 006 EP ►│ COMBINE CHAPTERS 17 │
│  11/25/2006 10:03PM 011 SP   ┌──────────┐     │
│  11/29/2006 11:30AM 009 SP   │EDIT TITLE│     │
│  12/01/2006 06:52PM 006 XP   DELETE TITLE      │
│  Family                      RENAME TITLE      │
│                              NEW PLAYLIST      │
│                                               │
│  ▲ ▼  SELECT   ◄ ►   SET                      │
│  ENTER  ENTER  RETURN  BACK  TITLE MENU  END  │
└─────────────────────────────────────────────┘
```

3   By pressing ENTER, the following message screen will appear.

```
┌───────────────────────────────┐
│   ARE YOU SURE YOU WANT TO     │
│       EDIT THIS TITLE?         │
│       IF PLAYLISTS EXIST,      │
│     THEY WILL BE DELETED.      │
│     ┌─────┐      ┌─────┐       │
│     │ YES │      │ NO  │       │
│     └─────┘      └─────┘       │
└───────────────────────────────┘
```

4   Press ◄ or ► to select "YES" and press ENTER, then the EDIT TITLE screen will appear.
- By selecting "NO", the title menu appears.

5   The method for erasing a scene is the same as for the playlist. See the steps 4 to 9 of "Erasing a scene (Edit title)" in "Editing a playlist" (page 68).

✎ **Note**
- If the scene is erased from the original title, the created playlist is erased.
- Disc space will only be freed up if scenes lasting several minutes are deleted.
- A chapter mark is automatically added at the location of the erased scene.

Erasing an original title
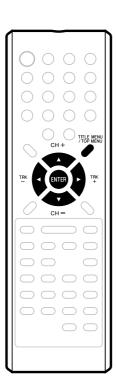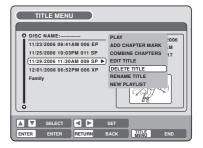
RAM VR mode

You can erase an original title. Erasing the title deletes both the title and the recording saved under that title name. Since the erased title cannot be restored, please make sure that it contains nothing you want to keep. When you erase the title, you can increase the disc space.

1 Press TITLE MENU to display the title menu.

2 Select the original title you want to erase.
• Press ▲ or ▼ to select the original title.
• Press ▶ to display the editing menu of original title.
• Press ▲ or ▼ to select "DELETE TITLE".

```
TITLE MENU

⊙ DISC NAME:————              PLAY              2006
   11/23/2006 08:41AM 006 EP   ADD CHAPTER MARK   M
   11/25/2006 10:03PM 011 SP   COMBINE CHAPTERS   17
   11/29/2006 11:30AM 009 SP ▶ EDIT TITLE
   12/01/2006 06:52PM 006 XP   DELETE TITLE
   Family                      RENAME TITLE
                               NEW PLAYLIST
⊙

▲ ▼   SELECT    ◄ ►    SET
ENTER   ENTER   RETURN  BACK   TITLE    END
                               MENU
```

3 By pressing ENTER, the following message screen will appear.

```
ARE YOU SURE YOU WANT TO
   DELETE THIS TITLE?
   IF PLAYLISTS EXIST,
  THEY WILL BE DELETED.

   YES          NO
```

4 Press ◄ or ► to select "YES" and press ENTER, then the original title will be erased.
• Erasing the title will be cancelled by selecting "NO".

✎ **Note**

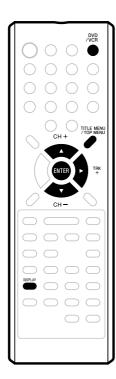• If the original title is erased the created playlist is also erased.

Changing a disc name

RAM **VR mode** **Video mode** **DVD-R**

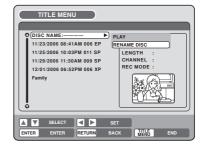You can change a disc name from the title menu.

Preparation:
• Turn ON the TV and set to the video input mode.
• Load the recorded DVD disc.
• Press **DVD/VCR** to select the DVD mode. (The DVD indicator will light.)
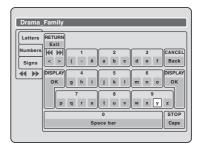
Changing a disc name

1 Press TITLE MENU to display the title menu.

2 • **Press ▲ or ▼ to select "DISC NAME".**
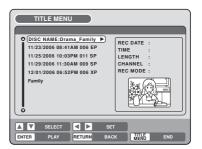   • **Press ▶ to display the editing menu.**
   • **Press ▲ or ▼ to select "RENAME DISC".**

```
TITLE MENU

DISC NAME:————        ▶    PLAY
11/23/2006 08:41AM 006 EP   RENAME DISC
11/25/2006 10:03PM 011 SP   LENGTH    :
11/29/2006 11:30AM 009 SP   CHANNEL   :
12/01/2006 06:52PM 006 XP   REC MODE  :
Family

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

3 Press ENTER.
The keyboard screen will appear.

4 Use the keyboard screen to enter the disc name.

```
Drama_Family

Letters  RETURN
         Exit
Numbers  ◄◄ ►►   1      2      3    CANCEL
Signs    <   >   (  -  #  a b c  d e f  Back
◄◄  ►►   DISPLAY  4      5      6    DISPLAY
         OK      g h i  j k l  m n o    OK
                 7      8      9
                p q r s  t u v  w x y z
                        0             STOP
                     Space bar         Caps
```

5 Press DISPLAY to return to the title menu.

```
TITLE MENU

DISC NAME:Drama_Family  ▶   REC DATE  :
11/23/2006 08:41AM 006 EP   TIME      :
11/25/2006 10:03PM 011 SP   LENGTH    :
11/29/2006 11:30AM 009 SP   CHANNEL   :
12/01/2006 06:52PM 006 XP   REC MODE  :
Family

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

📝 **Note**

• The disc name can be a maximum of 30 characters. Long names will be shortened in the title menu.
• For using the keyboard screen, see "Using the keyboard screen" (page 78).
• A DVD-R disc cannot be named after it is finalized.

Using the keyboard screen

RAM **VR mode** **Video mode** **DVD-R**

This section explains the function of the keyboard screen and how to input characters. The disc name and the title name can be changed using the keyboard screen.
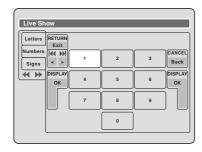
Keyboard screen types

The keyboard screen has three types of "Letters", "Numbers" and "Signs". The type can be switched over by pressing **REW** or **F.FWD**.

Letters:
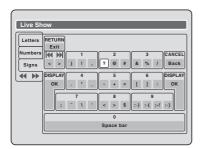This is mainly used for inputting alphabetical letters. For the keyboard screen of Letters, see the previous page.

Numbers:
This is used for inputting numbers.

Signs:
This is used for inputting symbols.

Inputting characters
There are two methods for inputting characters.

Character input 1

1   Press ▲, ▼, ◄ or ► to select the character to be input.

2   Press ENTER.
The selected character will be input.

Character input 2
Example: Explained here is the procedure when you input "F" and "J".

1   Press the numeric keys continuously and select the character to be input.

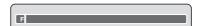To input F, press 3 three times.

Note
- When the interval between the pressing of the **numeric keys** is 2 seconds or more in selecting the input character, the selected character will automatically be input.

2   Stop the key operation when you select the character to be input.
The selected character will automatically be input.

3   Press the numeric keys where the following character is assigned.

4   When the character to be input is selected, stop the key operation.
The selected character is automatically input.

Erasing a character
You can erase the input character.

Erasing method 1

1   Press ▲, ▼, ◄ or ► to select "Back".

2   Press ENTER.
The last input character will be erased.

3   To erase the characters continuously, press ENTER.
The input characters will be erased from the last to the top one by one.

Erasing method 2

1   Press CANCEL.
The last input character is erased.

2   To erase the characters continuously, press CANCEL repeatedly.
The input characters will be erased from the last to the top one by one.

Erasing method 3
Use the cursor to select the character and erase it.

1   Press SKIP – or SKIP + to move the cursor after the character you want to erase.
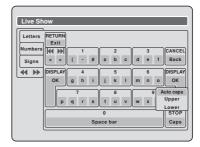
2   Press CANCEL.
The character before the cursor position will be erased.

Selecting between uppercase and lowercase letters
You can select either uppercase or lowercase letters when modifying your titles, using the keyboard screen with the "Letters" tab.

1   Press STOP.
(Or, press ▲, ▼, ◄ or ► to select "Caps", then press **ENTER**.)

2   Press ▲ or ▼ to select the type of letters in the list below and press ENTER.

Auto caps:
Determines uppercase and lowercase automatically.

Upper:
Inputs all with uppercase letters.

Lower:
Inputs all with lowercase letters.

Determining a name
To determine the entered disc name and title name, press **DISPLAY**. Or, press ▲, ▼, ◄ or ► to select "OK", then press **ENTER**.

The keyboard screen disappears and the display will return to the title menu.
The entered disc name and title name are displayed in the title menu.

Cancelling character input function
When you want to cancel the input and changed characters function, press **RETURN**. Or, press ▲, ▼, ◄ or ► to select "Exit", then press **ENTER**.
The input and changed characters function are cancelled and the title menu will appear.

Chapter 8
Dubbing

Dubbing a tape onto a disc

RAM VR mode Video mode DVD-R VCR

You can record video or audio on a video tape onto a disc.

Preparation:
- Turn ON the TV and set to the video input mode.
- Load a source video tape and a disc for recording.
- Remove the erase-protection tab of the source video tape to prevent the data from accidentally being erased.
- Confirm the disc space before operation.

1 Press DVD/VCR to set this unit to DVD mode.
The DVD indicator will light.

2 Press REC MODE/SPEED and select the recording mode.
- When **REC MODE/SPEED** is pressed each time, "SP", "LP", "EP" or "XP" is selected in this order.
- The recording mode is indicated on both the TV screen and the display window.
- For the details of the recording mode, see page 53.

3 Press DVD/VCR and set the unit to VCR mode.
Confirm that the VCR indicator lights.

4 Press DUBBING.
- The unit is changed to DVD mode automatically.
- The VCR is waiting for playback and the DVD is waiting for recording. Then the following message will appear.
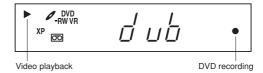
5 Press DUBBING, or press ◄ or ► to select "YES" and press ENTER.
Dubbing starts.
- To cancel dubbing, press **STOP**, or select "NO" and press **ENTER**.

CONFIRM DUBBING FROM VCR TO DVD

YES   NO

◄ ► SELECT   DUBBING YES
ENTER ENTER   STOP   NO

During dubbing, VCR playback, DVD recording and "dub" (dubbing) indicator appear on the display window.

Video playback   DVD recording

Press **CLOCK/COUNTER** to display the elapsed dubbing time in the display window.

6 To stop dubbing, press STOP.

✎ **Note**

- Dubbing cannot be accomplished when
  - a copy protected tape is used.
  - disc protection is set.
  - a disc has no recording space.
- Dubbing stops when
  - the video tape is played back to the end and stops.
  - recording space becomes full.
- The videos recorded from TV programs or movies can be used only for your personal enjoyment without permission of the copyright holder.
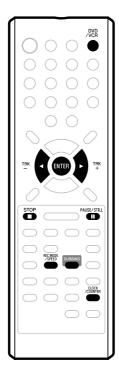
Dubbing a disc onto a tape

RAM | VR mode | Video mode | DVD-R | VCR

You can record both video and audio from a disc to a video tape. When a disc with a copy guard is used, a distorted image is recorded onto the video tape.

✎ Note

- When a title is played by selecting it from the title menu, only the title selected is played.
- Dubbing cannot be accomplished when
  - a copy protected disc is used.
  - the erase prevention tab of video tape is removed.
- Dubbing stops when
  - the disc is played back to the end and stops.
  - no recording space on the Video tape remains.
  - a length of about 10 seconds goes unrecorded.
- During dubbing, the unit is changed to interlaced scan mode automatically, if it has been previously set to progressive scan mode.
- If no special permission is obtained from the copyright owner, videos recorded from TV programs or movies can only be used for your own personal enjoyment.
- Please forward the first few seconds when you record at the beginning of tape.

Preparation:

- Turn ON the TV and set to the video input mode.
- Load a source disc and a video tape for recording.
- Confirm the remaining tape for recording before operation.

1 Press DVD/VCR to set this unit to VCR mode.
The VCR indicator will light.

2 Press REC MODE/SPEED and select the recording mode.
- When **REC MODE/SPEED** is pressed each time, "SP" or "EP" is selected.
- The recording mode is indicated on both the TV screen and the display window.
- For the details of the recording mode, see page 49.

3 Press DVD/VCR and set the unit to DVD mode.
Confirm that the DVD indicator lights.

4 Press DUBBING.
The DVD is waiting for playback and the VCR is waiting for recording. Then the following message appears.
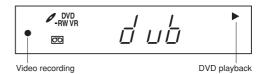
5 Press DUBBING, or press ◄ or ► to select "YES" and press ENTER.
Dubbing starts.
- To cancel dubbing, press **STOP**, or select "NO" and press **ENTER**.

In dubbing, DVD playback, VCR recording and "dub" (dubbing) indicator appear on the display window.

Video recording | DVD playback

Press **CLOCK/COUNTER** to display the tape counter in the display window.

6 To stop dubbing, press STOP.

Dubbing only the specified titles or the playlist

When you want to dub only specific titles or playlists recorded on the disc, start the playback of the desired title or playlist, and then press **DUBBING** and proceed from step **5** above. Dubbing start from the beginning of the title or playlist.

Dubbing only a specified scene

When you want to dub only specific scene on the disc, press **PAUSE/STILL** at the desired scene, and then press **DUBBING** and proceed from step **5** above.

81
En

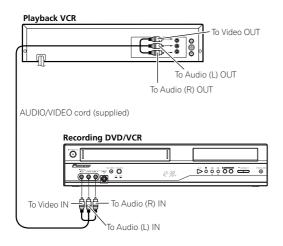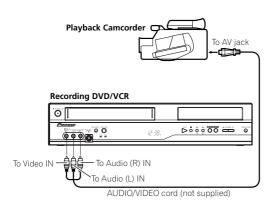## Dubbing using other equipment

RAM | VR mode | Video mode | DVD-R | VCR

You can connect another VCR or camcorder for dubbing.

Preparation:

• Typical connection: When using this unit as a recording device

Playback VCR

To Video OUT

To Audio (L) OUT

To Audio (R) OUT

AUDIO/VIDEO cord (supplied)

Recording DVD/VCR

12:38

To Video IN   To Audio (R) IN

To Audio (L) IN

You can also connect to the audio/video input jack (L1) at the rear side of this unit. In addition, each S-Video input jack at the front and rear sides can be used for recording on the disc. (The S-Video input jack cannot be used for recording on the video tape.)

Playback Camcorder

To AV jack

Recording DVD/VCR

12:38

To Video IN   To Audio (R) IN

To Audio (L) IN

AUDIO/VIDEO cord (not supplied)

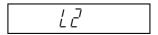### When a video is recorded using this unit

Preparation:

• Turn ON the TV and set the unit to the video input mode.
• Select the input mode in LINE1 (LINE2) INPUT setting on page 30.
• Select the audio mode for the audio input jack in EXTERNAL AUDIO INPUT setting on page 31.
• Load a video tape where the erase-protection tab is not activated or a disc with enough recording space.
• To record onto a video tape, set the unit to VCR mode, whereas to record onto a disc, set it to DVD mode.

1   Press INPUT SELECT and set the channel to L2 (or L1).

L1 (LINE 1):on the rear panel

L2 (LINE 2):on the front panel

Confirm that L2 (or L1) appears on the display window.

L2

2   Press REC MODE/SPEED and select the recording mode.

VCR: SP or EP (See page 49)

DVD: SP, LP, EP or XP (See page 53)

3   Press REC on this unit and PLAY button on the playback device simultaneously to begin the duplicating process.

4   To stop dubbing, press STOP.

📝 **Note**

• If using a monaural VCR or other equipment, connect Audio (L) IN jack to Audio OUT using only one audio cable.
• When this unit is used as a playback device, a mark or a character displayed on the screen is also dubbed as an image. When the screen display is set to OFF, see "DISPLAY" on page 29.
• If no special permission is obtained from the copyright owner, videos recorded from TV programs or movies can only be used for your own personal enjoyment.
• You may not dub a copy protected video or DVD disc.

Chapter 9
Additional information

Language code list

Enter the appropriate code number for the initial settings "DVD MENU", "AUDIO" and/or "SUBTITLE" (see page 24).

Language(Language code letter), **Language Code**

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

Screen sizes and disc formats

When viewing on a standard TV or monitor		
Screen format of disc	**Setting**	**Appearance**
16:9	**4:3 (Letter Box)**	The program is shown in widescreen with black bars at the top and bottom of the screen.
	4:3 (Pan & Scan)	The sides of the program are cropped so that the picture fills the whole screen. Please note that many widescreen discs override the player's settings so that the disc is shown in letter box format regardless of the setting.
4:3	**16:9**	The program appears squashed. Set to either 4:3 (Letter Box) or 4:3 (Pan & Scan).
	4:3 (Pan & Scan)	The program is presented correctly on either setting.

When viewing on a widescreen TV or monitor		
Screen format of disc	**Setting**	**Appearance**
16:9	**16:9**	The program is presented in widescreen.
4:3	**16:9**	Your TV will determine how the picture is presented-check the manual that came with the TV for details.

✎ **Note**

• Using the 16:9 (Wide) setting with a standard 4:3 TV, or either of the 4:3 settings with a widescreen TV, will result in a distorted picture.

Glossary

A-B Repeat Playback
Playback that repeats between two set points, A and B.

angle
Recorded onto some DVD discs are scenes which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left side, from the right side, etc.). With such discs you can select the angle to view the scene from different angles.

auto chapter
Feature that automatically makes chapter marks on a DVD disc during recording.

auto clock
Feature that automatically sets the internal clock.

blue background
Feature that automatically changes unpleasant noise images to a blue screen when a channel without a broadcast or a channel on which the broadcast has ended has been selected.

BROWSER screen
Screen that appears when TITLE MENU is pressed during MP3, WMA, JPEG or DivX® CD is inserted.

CABLE
Cable television.

chapter
A section within a title is called a "chapter".

Chase playback
Feature that playback from the beginning of a program currently being recorded.

CM Skip
When pressed during playback, playback jumps 30 sec. ahead and resumes.

copy guard
Copyright protection signal. Software and broadcasts that contain this signal cannot be recorded.

DivX
DivX is a compressed digital video format created by the DivX® video codec from DivXNetworks, Inc. This player can play DivX video files burned on CD-R/RW/ROM

discs. Keeping the same terminology as DVD-Video, individual DivX video files are called "Titles". When naming files/titles on a CD-R/RW disc prior to burning, keep in mind that by default they will be played in alphabetical order.

Dolby Digital

Dolby® Digital Recording enables consumers to record high-quality video with stereo sound on recordable DVD discs. The technology, when utilized instead of PCM recording, also saves recordable disc space, allowing for higher video resolution or extended reording time on each DVD. DVDs created using Dolby Digital Recording will play back on all DVD-Video players.
Manufactured under licence from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

DTS

DTS stands for Digital Theater System. DTS is a surround system different from Dolby Digital that has become a popular surround sound format for movies.
"DTS" and "DTS Digital Out" are registered trademarks of Digital Theater Systems, Inc.

DVD menu
Menu recorded on a DVD-Video that enables the user to select subtitles language, dubbing, etc.

finalize
Operation that enables discs recorded or edited with this unit to be played back on other DVD players.

interlaced scanning
Technology that alternately displays odd-numbered scanning lines and even-numbered scanning lines. Also called "480i", "i" meaning "interlace".

letter box
Feature that displays black bands above and below the playback images during playback of a disc recorded in wide (16:9) format on a 4:3 TV connected to this unit.

MP3
One type of audio compression that uses MPEG1. This format compresses the sound to use up about 1/10 of the original file space, with minimal loss of sound quality.

one touch repeat
If ONE TOUCH REPEAT is pressed during playback, playback returns to a point 10 sec earlier and resumes.

original title
The file created by recording something is called an "original title".

OTR
One-touch Timer Recording. Start a timed recording by pushing just one button (up to 6 hours).

pan scan
Feature that cuts the left and right edges of playback images to a 4:3 size during playback of a disc recorded in wide (16:9) format on a 4:3 TV connected to this unit.

parental control
Some discs control viewing according to the age of the viewer. A control level can be set for those types of discs.

PBS
Acronym for Public Broadcast System. The PBS channel transmits data for auto clock setting.

playlist
User-created titles based on each original title.

Progressive scan
Technology that simultaneously displays odd-numbered scanning lines and even-numbered scanning lines from top to bottom. Also called "480p", "p" meaning "progressive".

Regions (DVD only)
(example region code marks)
Regions associate discs and players with particular areas of the world. This unit will only play discs that have compatible region codes. You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).

SETUP MENU
Menu that contains settings for various features of this unit, such as recording and playback. Timer recording is also set from the SETUP MENU.

slide show
Technique for flipping through and viewing many images (JPEG files).

subtitle language
Language used for subtitles of movies, etc. Viewers can watch in a language of their choosing.

title
A program recorded on a disc is called a "title".

title menu
Menu that lists titles and tracks recorded on the disc. It is used for playback and disc editing.

top menu
Menu on a DVD-Video for selecting chapters for playback, subtitle language, etc. Some DVD-Video call this top menu "Title".

track
A song on a music CD is called a "track".

TRACK INFO screen
The screen that appears when TITLE MENU is pressed, if a music CD disc is in the unit.

Video mode
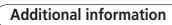This recording format is compatible with commercially available DVD players.

VR mode
This recording format is the basic DVD-RW recording format, and lets you enjoy the various editing functions available with this unit.

Error/Warning message list

	ERROR/WARNING MESSAGE	CAUSE	POSSIBLE SOLUTIONS	PAGE
Power ON	**SYSTEM ERROR PLEASE WAIT**	The power was shut down without completing the termination process due to a power failure or disconnection of the AC cord plug. (Abnormal termination)	Wait until the message disappears.	--
	SYSTEM ERROR PLEASE WAIT DISC CHECKING	The power was abruptly turned off before writing to the disc was completed.	The data is now restoring.	--
	SYSTEM ERROR DISC MIGHT BE FAILED PRESS ENTER	The data restoration was completed.	Press **ENTER**, then the screen returns to the normal display. The data may not be restored even if the restoration process is performed.	53
Playback	**NO DISC**	When a disc was not loaded in the unit, **PLAY** was pressed.	Load a disc.	33
	REGION CODE ERROR	A disc specified other than "Region 1" or "Region ALL" was loaded.	A disc specified other than "Region 1" or "Region ALL" cannot be played back.	9, 85
	INCORRECT DISC - C104, C105, C106, C107	The disc cannot be identified.	Check the disc and load a proper disc.	9
	PROGRESSIVE OUTPUT. STOP DISC PLAY BACK THEN PRESS PROGRESSIVE TO CANCEL.	When the unit was not connected to the TV with the component video cables, **PROGRESSIVE** was pressed.	Press **PROGRESSIVE** in the stop mode to make the progressive scanning mode inactive.	48
Recording	**NO DISC**	When a disc was not loaded into the unit, **REC** was pressed.	Load a disc.	55
	PROCESSING PLEASE WAIT	The recording termination is processing.	Wait until the process is completed.	--
	NO SPACE ON THE DISC.	Disc became full during recording.	Erase unnecessary titles or load another disc and restart recording.	76
	CANNOT RECORD - C203	Recording was tried onto the disc having no space.	Check the disc space.	35
	CANNOT RECORD - C206	Recording was tried onto the disc which does not support recording.	Load a recordable disc.	9
	CANNOT RECORD, DISC PROTECTED	Disc erase-protection is applied.	Set "Protect disc" to "OFF".	28
	CANNOT RECORD - C208	Recording was tried onto the finalized disc.	Undo finalization or load another disc for recording.	28
	CANNOT RECORD - C209	Adding data was tried onto the disc recorded in the other unit.	Load another disc for recording.	--
	CANNOT RECORD - C210	Adding data was tried to the disc where PC data was recorded.	Load another disc for recording.	--
	DISC ERROR - C205, C211, C212, C213	A scratch or contamination was found on the disc.	Check the disc and reload it, or use another disc for recording.	--
	CANNOT RECORD, EXCEEDS LIMITED NUMBER OF TITLES	99 titles were recorded on the disc.	Erase unnecessary titles or load another disc.	76
	CANNOT RECORD, EXCEEDS LIMITED NUMBER OF CHAPTERS	999 chapters exist on the disc.	Erase unnecessary chapters or load another disc.	74

	ERROR/WARNING MESSAGE	CAUSE	POSSIBLE SOLUTIONS	PAGE
	CANNOT RECORD PROTECTED IMAGE	You tried to record a copy-guard video.	You cannot record to the video containing copy-guard signal.	**54**
	RECORDING INTERRUPTED PROTECTED IMAGE	The video was changed to a copy-guard format in recording.	You cannot record to the video containing copy-guard signal.	**54**
	CANNOT RECORD IN VIDEO MODE. COPY IMAGE ONCE ONLY.	Recording was attempted of a "Copy Once" program onto a disc (Video mode).	Load a DVD-RW Ver. 1.1/1.2(VR mode) with CPRM.	**54**
	CANNOT RECORD ON DISC. THIS IS NOT CPRM DISC.	Recording was attempted of a "Copy Once" program onto a disc without CPRM.	Load a DVD-RW Ver. 1.1/1.2(VR mode) with CPRM.	**54**
	TIMER RECORDING ERROR PLEASE CHCK THE DISC OR TAPE	When a recordable tape is not inserted or no disc space is available, **TIMER REC** was pressed	Load a recordabl tape or disc.	**60, 62**
	OPERATION HALTED TO START T-REC	From about 6 minutes before DVD timer recording starts, DVD playback cannot be done.	You cannot playback the disc from about 6 minutes before DVD timer recording starts.	**60, 62**
Dubbing	**SWITCHING TO INTERLACE OUTPUT FOR COPYING**	Dubbing was initiated from a disc to a video tape in the progressive scan mode.	The mode is automatically changed to interlaced mode if dubbing from a disc to a video tape.	**81**
	CANNOT COPY DATA - C251	No video tape or disc is inserted as a source for the recording.	Load a video tape or disc into the source drive.	**80, 81**
	CANNOT COPY DATA - C254, C255	The source video or disc to be copied is copy-guarded.	You cannot dub a video containing copy-guarded material.	**54**
	COPYING INTERRUPTED	The video tape or disc became full during dubbing.	Load another video tape or disc for recording and restart.	**80, 81**
Disc setup	**DISC ERROR - C302**	Cannot Format disc due to a scratch or contamination on the disc.	Check the disc and reload it, or use another disc for recording.	--
	DISC ERROR - C304	Cannot Finalize disc due to a scratch or contamination on the disc.	Check the disc and reload it, or use another disc for recording.	--
	DISC ERROR - C306	Cannot Undo Finalize disc due to a scratch or contamination on the disc.	Check the disc and reload it, or use another disc for recording.	--
	DISC ERROR - C307, C308	Cannot Protect disc ON/OFF due to a scratch or contamination on the disc.	Check the disc and reload it, or use another disc for recording.	--
Title Menu	**CANNOT EDIT**	Editing cannot be performed due to a scratch or contamination on the disc.	Check the disc and reload it, or use another disc for recording.	--
	PROCESSING PLEASE WAIT	A process requiring a longer time such as editing is being performed.	Wait until the process is complete.	--

✎ **Note**

• Any error/warning message other than those above might appear. Take measures against such a message by seeing the possible solutions above.

Troubleshooting

Incorrect operation is often mistaken for trouble and malfunction. If you think there is something wrong with this component, please check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after checking the points below, ask your nearest Pioneer authorized service center or your dealer to carry out repair work.

📝 **Note**

• If the unit does not operate normally due to external effects such as static electricity, disconnect the power plug from the AC outlet and insert again to return to normal operating conditions.
  If the unit will not work even if the power cord is unplugged and plugged back in, unplug the cord from the AC outlet for about 4 hours and then try plugging it back in and turn on the power.

DVD/VCR

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
DVD/VCR does not operate.	• Make sure the power cord is plugged in.	**15**
	• Try another AC outlet.	**--**
	• Power is off, check fuse or circuit breaker.	**--**
	• Unplug unit, then plug it back in.	**15**
	• Select the DVD or VCR mode before operating.	**33, 49**
No picture.	• Antenna connection is not correct or antenna cable is disconnected.	**16~19**
	• The video channel is not in the correct position or the TV is not set to the video channel 3 or 4.	**22**
	• Check the unit is connected correctly.	**16~21**
	• The video input selector of the TV is not set to VIDEO. Set to VIDEO (or equivalent).	**--**
	• Channel is set to the external mode.	**--**
No sound.	• Check the unit is connected correctly.	**16~21**
	• Check the input selector of the amplifier is set properly.	**--**
	• The unit is in the Special playback mode.	**36, 51**
The remote control does not function.	• Aim at 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.	**15**
	• The batteries are weak. Replace the batteries.	
	• Check the batteries are inserted correctly.	
No Cable TV reception	• Check all Cable TV connections.	**18, 19**
	• Station or Cable TV system problems, try another station.	
No function in DVD mode	• This unit may on rare occasions stop working in certain situations, such as when a soiled or damaged disc is used. If this occurs, hold down **STANDBY/ON** on the unit for 10 seconds or longer to reset the unit. The unit may also automatically reset itself if it detects a problem.	**--**
	• If the unit performs a reset of this sort while data is being recorded onto a disc, it may in rare cases no longer be possible to successfully record to or play back from the disc.	

DVD

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
Display is not shown in your language.	• Select proper language in the SETUP MENU.	**24**
Playback doesn't start.	• No disc is inserted.	**33**
	• The disc may be dirty. Clean up the disc.	**90**
	• Check that the disc is not a DVD-RAM, DVD+R/RW, dual disc (DVD/CD hybrid disc) or other incompatible format disc.	**9**
Stopping playback, search, slow-motion play, repeat play, or program play, etc. cannot be performed.	• Some discs may not do some of the functions.	**--**
Recording does not work.	• Check the disc space, using the disc information.	**35**
	• Check the disc for protection.	**28**
	• Check if the video to be recorded is not "copy-guarded".	**54**
	• Check that the number of recorded titles is 99 or less, using the disc information.	**35, 53**
	• Check the number of the total chapters for the recorded titles is 999, using the disc information.	**35, 72**
	• In a DVD-RW of Ver.1.0, recording in Video mode does not work. Check the disc type.	**10**

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
A disc recorded using this recorder cannot be played back in other players.	• Check that the disc is finalized.	**28**
	• Some DVD players will not play even if the disc has been finalized.	**10, 28**
	• If the disc was recorded in VR mode, the other player must be RW compatible in order to play the disc.	**10, 28**

VCR

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
TV recording does not work.	• The erase prevention tab of the video cassette is broken off.	**49, 55**
	• The unit is in the external input mode.	
Timer recording does not work.	• The time is not set correctly.	**26**
	• The recording start/end time is not set correctly.	**61**
	• TIMER REC has not been pressed (⏱ is not lit).	**62**
Noise bars on screen.	• Tracking adjustment beyond range of automatic tracking circuit. Try Manual tracking adjustment.	**51**
	• Video heads are dirty.	**91**
	• The tape is worn or damaged.	**--**
No on-screen display	• When DVD Priority (Component OUT jacks and S-Video OUT jack) outputs are connected to the TV, the on-screen display only shows when VCR is playing.	**21**

OTHER

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
No picture, or screen is blurred or divided into two parts.	• The progressive scan mode is active through the unit is connected to a TV via the VIDEO OUT jack.	**48**
No 4:3 (16:9) picture	• The setup does not match your TV.	**29**
No on-screen display	• Select Display "ON".	**29**
Nothing appears in the display window	• Check the DIMMER setting for SETUP.	**29**
No surround sound	• The setup does not match your stereo system.	**21**
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.	**25**
Audio soundtrack and/or subtitle language is not changed when you playback a DVD.	• Multilingual language is not recorded on the DVD disc.	**24**
No subtitles	• Some discs have no subtitles.	**24, 41**
	• Subtitles are cleared. Press **SUBTITLE**.	
Angle cannot be changed.	• Multi-angles are not recorded on the DVD disc.	**--**
"✋" appears on the screen.	• The function is prohibited with the unit or the disc.	**--**

Handling discs

When holding discs of any type, take care not to leave fingerprints, dirt or scratches on the disc surface. Hold the disc by its edge or by the center hole and edge. Damaged or dirty discs can affect playback and recording performance. Take care also not to scratch the label side of the disc. Although not as fragile as the recorded side, scratches can still result in a disc becoming unusable. Should a disc become marked with fingerprints, dust, etc., clean using a soft, dry cloth, wiping the disc lightly from the center to the outside edge as shown in the diagram below.

If necessary, use a cloth soaked in alcohol, or a commercially available CD/DVD cleaning kit to clean a disc more thoroughly. Never use benzine, thinner or other cleaning agents, including products designed for cleaning vinyl records.

Storing discs

Although CDs and DVD discs are more durable than vinyl records, you should still take care to handle and store discs correctly. When you're not using a disc, return it to its case and store upright. Avoid leaving discs in excessively cold, humid, or hot environments (including under direct sunlight).
Don't glue paper or put stickers onto the disc, or use a pencil, ball-point pen or other sharp-tipped writing instrument. These could all damage the disc.

For more detailed care information see the instructions that come with discs.
Do not load more than one disc into the recorder.

Damaged discs

Discs spin at high speed inside the recorder. If you can see that a disc is cracked, chipped, warped, or otherwise damaged, don't risk using it; you could end up damaging the recorder.
This recorder is designed for use with conventional, fully circular discs only. Use of shaped discs is not recommended for this product. Pioneer disclaims all liability arising in connection with the use of shaped discs.

Cleaning the pickup lens

The DVD recorder's lens should not become dirty in normal use, but if for some reason it should malfunction due to dust or dirt, consult your nearest Pioneer-authorized service center. Although lens cleaners for CD players are commercially available, we do not recommend using them since some may damage the lens.

Handling video tapes

Please do not use the following kinds of video tape:
- Dusty or mouldy tape
- Tape on which liquid has been spilled
- Tape which has been broken and then repaired
- Tape which has become unwound from the spools in the cassette
- Dirty heads and very long length, thin video tape can cause problems such as uneven playback.
- When using a new video tape, fast-forward to the end, then rewind it back to the start before using.
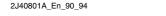- Avoid dropping video tapes or exposing them to severe vibration.

Storing video tapes

- After using a video tape, rewind it back to the beginning and return to its case.
- Do not store tapes:
  - in excessively dusty places
  - in excessively hot or humid places
  - in direct sunlight
  - near air-conditioners or heaters
  - near strong magnetic fields

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.

Normal   When head is dirty

✎ Note

- DO NOT ATTEMPT TO CLEAN THE VIDEO HEADS OR SERVICE THE UNIT BY REMOVING THE TOP 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.
- We do not recommend using wet-type head-cleaning cassettes as they may damage the unit.

Moving the recorder

If you need to move the recorder, first remove the disc and the cassette, if they are loaded, and close the disc tray. Next press **STANDBY/ON** to switch the power to standby. Lastly, disconnect the power cord.

Resetting the recorder

If you need to, you can reset the recorder to all its factory settings.

1 Make sure that the recorder is on and remove the disc.

2 Press and hold ■ STOP and press ⏻ STANDBY/ON.
The recorder turns off with all settings reset.

Hints on installation

We want you to enjoy using this unit for years to come, so please bear in mind the following points when choosing a suitable location for it:

Do...

- ✓ Use in a well-ventilated room.
- ✓ Place on a solid, flat, level surface, such as a table, shelf or stereo rack.

Don't...

- ✗ Use in a place exposed to high temperatures or humidity, including near radiators and other heat-generating appliances.
- ✗ Place on a window sill or other place where the recorder will be exposed to direct sunlight.
- ✗ Use in a dusty or damp environment or in a room where it will be exposed to excessive cigarette smoke.
- ✗ Place directly on top of an amplifier, or other component in your stereo system that becomes hot in use.
- ✗ Use near a television or monitor as you may experience interference-especially if the television uses an indoor antenna.
- ✗ Use in a kitchen or other room where the recorder may be exposed to smoke or steam.
- ✗ Use on a thick rug or carpet, or cover with cloth-this may prevent proper cooling of the unit.
- ✗ Place on an unstable surface, or one that is not large enough to support all four of the unit's feet.

Specifications

GENERAL

Power supply .... AC 120V 60Hz
Power consumption .... Operation: 29W
Standby: 2.5W (if display window is off.)
Weight .... 5.0 kg (11.0 lb.)
Dimensions .... 430 mm (W) x 90 mm (H) x 330 mm (D)
(16-5/16 in. (W) x 3-9/16 in. (H) x 13 in. (D))
Operating temperature .... 41°F to 95°F (5°C to 35°C)
Operating humidity .... Less than 80% RH
Inputs/Outputs:
  Video ....In: 1Vp-p/75 ohm
Out: 1Vp-p/75 ohm
  Audio .... In: –8dBm/50k ohm
Out: –8dBm/1k ohm
  Antenna .... UHF/VHF IN/OUT: 75 ohm coaxial
Program .... 12 programs/1 month
Power off memory .... Approx. 30 min.

VCR section

Video head .... 4 Rotary Heads
Audio track .... Hi-Fi Sound - 2 Tracks
MONO Sound - 1 Track
Hi-Fi frequency response .... 20Hz to 20,000Hz
Hi-Fi dynamic range .... More than 90dB
Tuner .... 181 Channel Freq. Synthesized
  VHF 2-13
  UHF 14-69
  CABLE .. 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. 1minute and 48 seconds
(with T-120 Cassette Tape)(at＋25˚C)

DVD section

Signal system .... NTSC
Applicable disc .. DVD (12cm, 8cm[Self Recording/Playback
only]), CD (12cm, 8cm)
Recording format .... DVD-Video Recording (VR mode)
DVD-VIDEO (Video mode)
Recording discs .... DVD-RAM, DVD-RW, DVD-R
Recording time (based on a 4.7GB disc)
  XP .... Approx. 60 min
  SP .... Approx. 120 min
  LP .... Approx. 240 min
  EP .... Approx. 360 min

Audio characteristics
frequency response .... DVD: 4Hz - 22kHz
CD: 4Hz - 20kHz
S/N Ratio 90dB
Harmonic distortion .... Less than 1%
Wow and flutter .... Less than 0.01% Wrms
Dynamic range .... More than 90dB

Output .... Video: (RCA) 1 Vp-p/75 ohm
Audio : (RCA) –12 dB/1k ohm
Digital Audio : 0.5Vp-p/75 ohm
Pickup .... CD : Wavelength: 780 nm
Maximum output power: 8.5 mW
DVD : Wavelength: 660 nm
Maximum output power: 120 mW

ACCESSORIES

Remote control 1
Dry cell batteries (AAA/R03) 2
Audio / Video cable (red/white/yellow) 1
RF antenna cable 1
Blank DVD-RW disc 1
Warranty card 1
Quick Start Guide 1
Operating Instructions

*Note: The specifications and design of this product are subject
to change without notice, due to improvement.*

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