

HDD+DVD Recorder

** Before attempting to connect, operate or adjust this product, please save and read the User Guide completely.*

** The style of the HDD+DVD Recorder shown in the User Guide may be different from the actual unit due to various models.*



User Guide

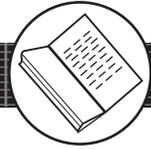
Playable Format:

HDD/DVD/DVD±R/DVD±RW/Audio CD/Kodak Picture CD/JPEG Picture CD

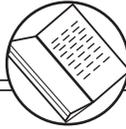
* The HDD+DVD Recorder is intended to record DVD+R or DVD+RW disc only.

* The capacity of Hard Disk Drive varies due to different models.

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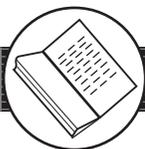


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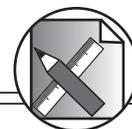
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Recording



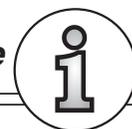
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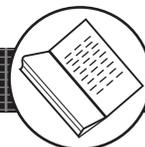
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FCC and Safety Information



CAUTION:

This unit employs a laser. Due to possible eye injury, only qualified service personnel should remove the cover or attempt to service this device. Use of controls, adjustments, or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

For the HDD+DVD Recorder with Progressive scan output:

'Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of Progressive scan picture problems, it is recommended that the user switch the connection to the "Standard Definition" output. If there are questions regarding our TV set compatibility with this model HDD+DVD Recorder, Please contact our customer service center.'

Since it is usual for DVD movies to be released at different times in different regions of the world, all players have region codes and disc can have an optional region code. If you load a disc of a different region code to your player, you will see the region code notice on the screen. The disc will not play, and should be unloaded.

(Possible region codes:)



There are 6 regions (also called "locals"). Each DVD player and disc will be played in one region ONLY.

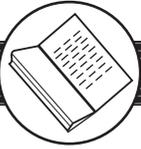
- 1: Canada, U.S., U.S. Territories
- 2: Japan, Europe, South Africa, Middle East (including Egypt)
- 3: Southeast Asia, East Asia (including Hong Kong)
- 4: Australia, New Zealand, Pacific Islands, Central America, Mexico, South America, Caribbean
- 5: Former Soviet Union, Indian Subcontinent, Africa (also North Korea, Mongolia)
- 6: China

Never make or change connections with the power switched on.

CAUTION VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM (WARNING LOCATION: INSIDE ON LASER COVER SHIELD)

1. Read these instructions.
2. Keep these instructions.





Important Safety Instructions

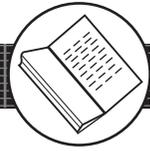
1. Read these instructions.
2. Keep these instructions.
3. Pay attention to all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a damp cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized-type plug. A polarized plug has two blades with one wider than the other. The wide blade is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plug, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way; such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



WARNING: To reduce the risk of fire or electric shock, do not expose to rain, moisture, dripping or splashing.

No objects filled with liquids, such as vases, shall be placed on top of the recorder.

Precautions



Please read these precautions before operating the unit.

■ Power cord protection

To avoid any malfunctions of the unit, and to protect against electric shock, fire or personal injury, please observe the following.

- Hold the plug firmly when connecting or disconnecting the AC power cord.
- Keep the AC power cord away from heating appliances.
- Never put any heavy object on the AC power cord.
- Do not attempt to repair or reconstruct the AC power cord in any way.

■ Placement

Avoid placing the unit in areas of:

- direct sunlight or heating radiators, or closed automobiles
- high temperature (over 350°C) or high humidity (over 90%)
- much dust as the internal parts may be seriously damaged.

■ Non-use periods

When the unit is not being used, turn it off. When left unused for a long period of time, the unit should be unplugged from the household AC outlet.

■ No fingers or other objects inside

- Touching internal parts of the unit is dangerous, and may cause serious damage to the unit. Do not attempt to disassemble the unit.
- Do not put any foreign object on the disc tray.

■ Keep away from water/magnet

- Keep the unit away from flower vases, tubs, sinks, etc. If liquids are spilled into the unit, serious damage could occur.
- Never bring a magnet or magnetized object near the unit.

■ Stacking

- Place the unit in a horizontal position, and do not place anything heavy on it.

■ Condensation

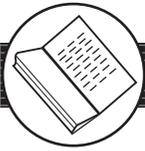
Moisture may form on the lens in the following conditions:

- immediately after a heater has been turned on
- in a steamy or very humid room
- when the unit is suddenly moved from a cold environment to a warm one If moisture forms inside the unit, it may not operate properly. In this case, turn on the power and wait about one hour for the moisture to evaporate.

■ If there is noise interference on the TV while a broadcast is being received

Depending on the reception condition of the TV, interference may appear on the TV monitor while you watch a TV broadcast and the unit is left on. This is not a malfunction of the unit or the TV. To watch a TV broadcast, turn off the unit.





Definition of Terms

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, the ANGLE button can be used to view the scene from different angles.

Chapter Number

These numbers are recorded on HDD and DVD discs. A title is subdivided into many sections, each of which is numbered, and specific parts of video presentations can be searched quickly using these numbers.

DVD

A high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG II) and high-density recording technology, DVD enables aesthetically pleasing full-motion video to be recorded over long periods of time (for instance, a whole movie can be recorded). A DVD disc normally has 4.7GB capacity and is able to record 2hrs of high quality DVD movie.

DVD+R

This means DVD+Recordable. These Discs can be recorded and finalized only once.

DVD+RW

This means DVD+ReWritable. These Discs can be recorded on repeatedly.

Finalize

After being recorded and finalized, the recorded disc can be played back on a regular DVD player if the DVD player can take DVD+R discs.

HDD

HDD refers to the internal hard disc drive of the recorder. It is a fragile piece of equipment. Backing up important recordings onto DVD+R/RW is recommended in order to protect against accidental loss.

Subtitles

These are the printed lines appearing at the bottom of the screen which translate or transcribe the dialogue. They are recorded on DVD discs.

Play Time

This indicates the play time which has elapsed from the start of a disc or a title. It can be used to find a specific scene quickly. (It may not work with some discs.)

Title Number

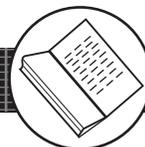
These numbers are recorded on DVD discs. When a disc contains two or more movies, these movies are numbered as title 1, title 2, etc.

Track Number

These numbers are assigned to the tracks which are recorded on audio CDs. They enable specific tracks to be located quickly.



About This User Guide

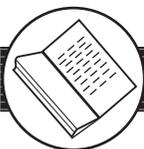


Note: Before attempting to connect, operate or adjust this product, please save and read this *User Guide* completely.

Thank you for buying the HDD+DVD Recorder. We sincerely hope you can enjoy the pleasure of recording and playing back pictures through this quality unit with only certain simple operations to follow. By using the HDD+DVD Recorder, you can enjoy the programs recorded in the HDD, DVDs, audio CDs, or watch TV shows through external devices. What's more, you can record these shows to HDD, DVD+R or DVD+RW discs according to your favor.

Instructions in this *User Guide* describe mainly the use of the remote control. Buttons with the same or similar marking on your HDD+DVD Recorder have the same functions as those of the remote control. For introduction to the panels (HDD+DVD Recorder), buttons (Remote Control), and various connections, please refer to the *Quick Guide*.





Feature Reference

About the Internal HDD:

Please use the recorder following the guidelines below to protect against possible HDD failure. It is recommended to always back up important recordings onto DVD+R/RW discs in order to protect against accidental loss.

- Install and operate the recorder on a stable and level surface
- Do not move the recorder while it is on
- Do not block the rear vent/cooling fan
- Do not move the recorder immediately after switching it off
- Do not use the recorder in places that may be subject to sudden changes in temperature, or in excessively hot or humid environmental conditions
- It could cause loss of recording data if there is a power failure during recording programs.
- As the recorder is switched on, do not unplug from the wall socket or switch the electricity off from the breaker switch.

Scheduled Recording:

- Number of events: 8 (Freq, Start time, Duration, Mon-Fri/Weekly Mon/Weekly Tue, etc)
Up to 1 month in advance
- Programming mode: OTR, Remote
- Timer programming: VCR Plus+ & manual

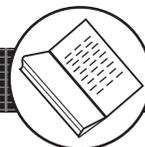
4.7GB DVD+R / DVD+RW disk

Rec Mode	Rec Time	Resolution (pixels)	Vertical Freq.
HQ	About 1 Hr	720 x 576 (PAL)	50 Hz
SP	About 2 Hr	720 x 480 (NTSC)	60 Hz
LP	About 3 Hr	360 x 576 (PAL)	50 Hz
EP	About 4 Hr	360 x 480 (NTSC)	60 Hz
SLP	About 6 Hr	352 x 288 (PAL) 352 x 240 (NTSC)	50 Hz 60 Hz

40 / 80 / 120 / 160 GB Harddisk

Rec. Mode	Recording Time	Resolution (pixels)	Vert. Freq.
HQ	About 8 / 16.5 / 25 / 33.5 Hr	720 x 576 (PAL)	50 Hz
SP	About 16 / 33 / 50 / 67 Hr	720 x 480 (NTSC)	60 Hz
LP	About 24 / 50 / 75 / 100 Hr	360 x 576 (PAL)	50 Hz
EP	About 32 / 66 / 100 / 134 Hr	360 x 480 (NTSC)	60 Hz
SLP	About 48 / 100 / 150 / 201 Hr	352 x 288 (PAL) 352 x 240 (NTSC)	50 Hz 60 Hz

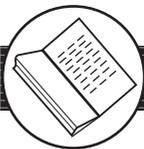
Before Operation



This section covers significant information about the unit's general behavior. Please read the below information carefully.

- As turning on the HDD+DVD Recorder, the unit directly enters to DVD mode.
- If a disc is already placed on the disc tray, the recorder will start to load the disc right after power is turned on. It will be invalid by pressing  **HDD/DVD** to switch to HDD mode or  **Source** to change connected source during loading.
- If Auto Play is set on, the recorder will start to play the disc or display its menu after loading.
- To switch to HDD mode, please do the following:
 1. If there is no disc placed in the recorder, press  **HDD/DVD** on the remote control to switch to HDD mode.
 2. If there is a disc placed in the recorder, press  **Stop** twice to completely stop DVD playback. Press  **HDD/DVD** on the remote control to switch to HDD mode.
- When pressing  **Stop** for a first time during DVD playback, the recorder turns to a pre-stop status and memorizes the position where the playback is stopped. To start play from where the playback has been stopped, press  **Play**.
- If intending to completely stop DVD playback in order to operate the other functions in pass-through mode, press  **Stop** for a second time following the previous stop operation.
- When recording programs to a DVD+RW or DVD+R disc, after the disc is loaded and its disc menu is displayed on the screen, press  **Record** once to switch the recorder to record mode. Then press  **Source** to select a preferred source for recording. To start the recording, press  **Record** again.
- To display the title menu during HDD playback, press  **Menu** or  **Title**. To leave the menu, press  **Play**.
- To return to the title menu during DVD playback, press  **Menu** or  **Title**.
- As  appears on the right top corner of the screen, it indicates that the action is prohibited or not available.





Quick Disc Playback

HDD Quick Playback



Getting Started



- 1 Press **STANDBY/ON** button on the HDD+DVD Recorder or **Power** on the remote control to turn on the HDD+DVD Recorder.



- 2 Turn on the TV set, and switch it to the correct Video Input source (Video 1, etc.).



- 3 If intending to play the programs recorded in HDD, press **HDD/DVD** on the remote control to select HDD mode.

- 4 Press **Play**, a title menu appears on the screen, and the latest recorded program starts playback behind the title menu.



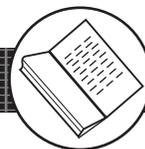
Note: HDD Playback can be proceeded only when there is one or more programs recorded in the hard disc.

- 5 Press on the remote control to highlight a preferred title. The selected title will be played behind the title menu immediately after being highlighted.

- 6 To leave the title menu and watch the program, press **Play** again.

- 7 Press **Volume** to adjust volume.

- 8 To stop playback and operate the inputs of external sources (TV, CVBS1, Video1 and DV etc.) in pass-through mode, press **Stop**.



Quick Playback of Other Discs

- 1 Press **STANDBY/ON** button on the HDD+DVD recorder or **Power** on the remote control to turn on the HDD+DVD Recorder.



- 2 Turn on the TV set, and switch it to the correct Video Input source (Video 1, etc.).

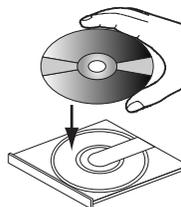


- 3 If intending to play the programs in DVD or other playable discs, press **HDD/DVD** on the remote control to select DVD mode.

- 4 Press **Eject** to open the disc tray. Place the disc onto the tray.



Note: Hold the disc without touching its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.



- 5 Press **Eject**. Disc tray will close and start playback.

- 6 If it does not start playback, do the following:
If playing DVD/DVD±R/DVD±RW, a disc menu appears. Press on the remote control to select a preferred title. Press **Play** to start playback.

- 7 Press **Volume** to adjust volume.

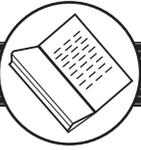
- 8 To stop playback, press **Stop**.



*Note: When pressing **Stop** for the first time during playback, the recorder turns to a pre-stop status and memorizes the position where the playback is stopped. To start play from where the playback has been stopped, press **Play**.*

- 9 To operate the inputs of external sources (TV, CVBS1, Video1 and DV etc.) in pass-through mode, press **Stop** again.





Quick Recording

HDD Quick Recording

- 1 Press **STANDBY/ON** button on the HDD+DVD Recorder or **Power** on the remote control to turn on the HDD+DVD Recorder.
- 2 If intending to record programs in HDD, press **HDD/DVD** on the remote control to select HDD mode. Turn on the TV.

To Record from External Sources

- 3 Press **Source** on the remote control repeatedly to toggle to the external A/V input sources you wish to record.

Note: To record from your videotape player, you can connect it to S-VIDEO1 input connector of your HDD+DVD Recorder, and press **Source** to select S-Video1 on TV.

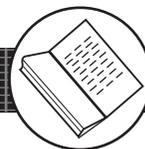
To Record TV Program

- 3 Press **Source** on the remote control repeatedly to see TV channels through the HDD+DVD Recorder.

Note: To view local TV programs through this recorder, you have to proceed Channel Scan first. Please refer to **Chapter 1-2: Channel Scan Setting** on page 17 for details.

- 4 Press **Channel** or **Number Button(s)** to select a preferred channel for recording.
- 5 Press **Record** to start recording the selected channel.
- 6 To stop recording, press **Stop**.



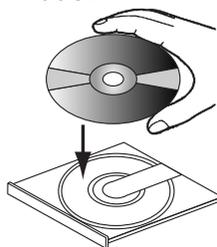


DVD+R and DVD+RW Quick Recording

1 Press **STANDBY/ON** button on the HDD+DVD Recorder or **Power** on the remote control to turn on the HDD+DVD Recorder.

2 Press **Eject** to open the disc tray. Place a DVD+R/DVD+RW disc onto the tray, and press **Eject** to close it. After the disc is loaded, and its menu is displayed on the screen, press **Record** once to switch the recorder to record mode.

Note: Hold the disc without touching its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.



To Record from External Sources

3 Press **Source** on the remote control repeatedly to toggle to the external A/V input sources you wish to record.

Note: To record from your videotape player, you can connect it to S-VIDEO1 input connector of your HDD+DVD Recorder, and press **Source** to select S-Video1 on TV.

To Record TV Program

3 Press **Source** on the remote control repeatedly to see TV channels through the HDD+DVD Recorder.

Note: To view local TV programs through this recorder, you have to proceed Channel Scan first. Please refer to **Chapter 1-2: Channel Scan Setting** on page 17 for details.

4 Press **Channel** or **Number Button(s)** to select the preferred channel for recording.

5 Press **Record** to start recording the selected channel.

6 To stop recording, press **Stop**.



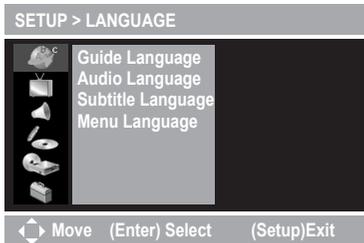


1 Initial Setting

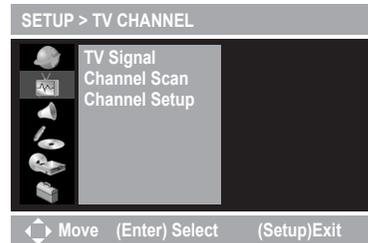
This chapter covers all the OSD settings for your HDD+DVD Recorder. There are six major functions in the Setup menu, including LANGUAGE, TV CHANNEL, AUDIO & VIDEO, RECORD, DISC and SYSTEM. By proceeding these OSD settings, you can select options that suit best to your equipment.

The six major OSD settings:

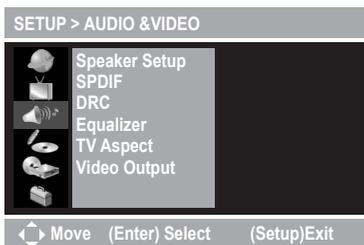
1. Under LANGUAGE Setup



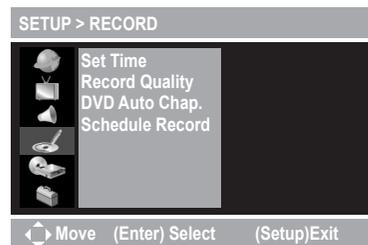
2. Under TV CHANNEL Setup



3. Under AUDIO & VIDEO Setup

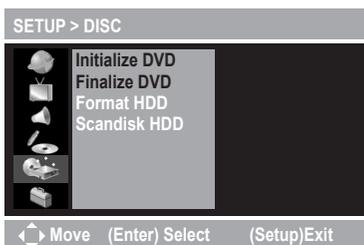


4. Under RECORD Setup



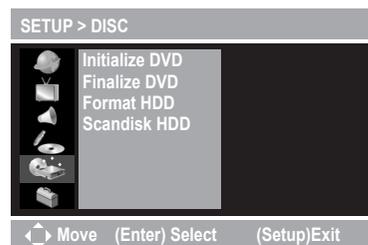
5. Under DISC Setup

a When No Disc is placed

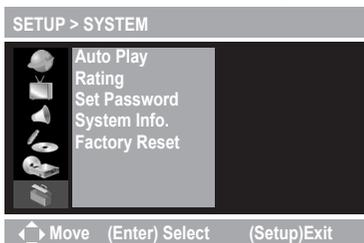


5. Under DISC Setup

b When a DVD+R/RW is placed



6. Under SYSTEM Setup



1 Initial Settings - continued



In Advance:

- 1 Press  **STANDBY/ON** button on the HDD+DVD Recorder or  **Power** on the remote control to turn on the HDD+DVD Recorder.



Or



- 2 Turn on the TV set, and switch it to the correct Video Input Source (Video 1, etc.).



- 3 Press  **Setup** to display the main Setup Menu.



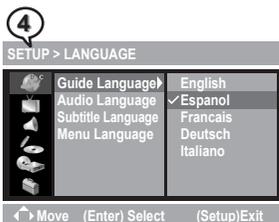
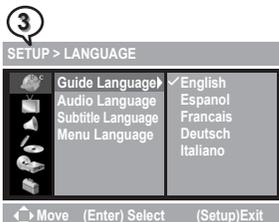
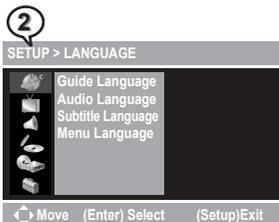


1-1 Language Setup

Guide Language Setting

Guide Language is a function for selecting Setup menu and on-screen language displays.

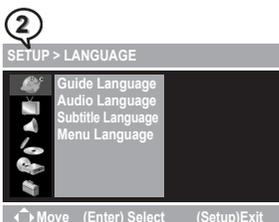
- 1 Press **Setup** to display the main Setup Menu.
- 2 As **LANGUAGE SETUP** icon is highlighted, a primary option window appears on the right.
- 3 Press **>** to highlight **Guide Language**, and a secondary option window appears on the right.
- 4 Press **>** again and then **^** **v** to highlight a preferred language among the options. Press **Enter** and a tick appears in front of the selected language.
- 5 To return to the main Setup Menu, press **<** twice. To leave the main Setup Menu, press **Setup**.



Audio Language Setting

Audio Language is a function for selecting DVD audio language outputs of discs.

- 1 Press **Setup** to display the main Setup Menu.
- 2 As **LANGUAGE SETUP** icon is highlighted, a primary option window appears on the right.
- 3 Press **>** and then **v** to highlight **Audio Language**, and a secondary option window appears on the right.
- 4 Press **>** again and then **^** **v** to highlight a preferred language among the options. Press **Enter** and a tick appears in front of the selected language.
- 5 To return to the main Setup Menu, press **<** twice. To leave the main Setup Menu, press **Setup**.



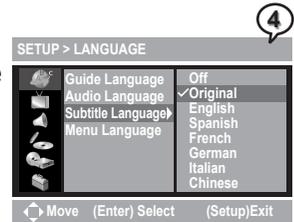
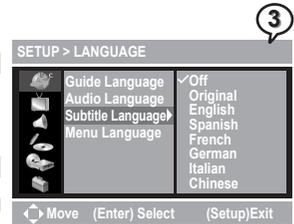
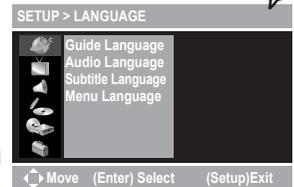
1-1 Language Setup - continued



Subtitle Language Setting

Subtitle Language is a function for selecting DVD subtitle language outputs of discs.

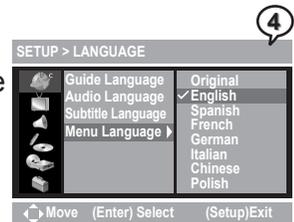
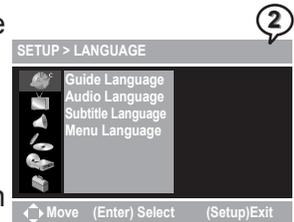
- 1 Press **Setup** to display the main Setup Menu.
- 2 As **LANGUAGE SETUP** icon is highlighted, a primary option window appears on the right.
- 3 Press **>** and then **v** to highlight **Subtitle Language**, and a secondary option window appears on the right.
- 4 Press **>** again and then **^** **v** to highlight a preferred language among the options. Press **Enter** and a tick appears in front of the selected language.
- 5 To return to the main Setup Menu, press **<** twice. To leave the main Setup Menu, press **Setup**.



Menu Language Setting

Menu Language is a function for selecting DVD menu language displays of discs.

- 1 Press **Setup** to display the main Setup Menu.
- 2 As **LANGUAGE SETUP** icon is highlighted, a primary option window appears on the right.
- 3 Press **>** and then **v** to highlight **Menu Language**, and a secondary option window appears on the right.
- 4 Press **>** again and then **^** **v** to highlight a preferred language among the options. Press **Enter** and a tick appears in front of the selected language.
- 5 To return to the main Setup Menu, press **<** twice. To leave the main Setup Menu, press **Setup**.

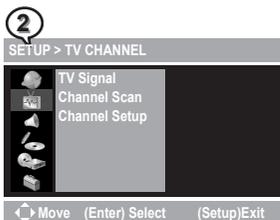




1-2 TV Channel Setup

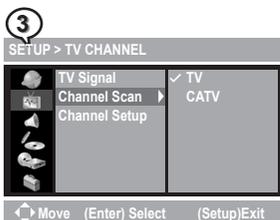
TV Signal Setting

TV Signal is a function for setting the source of TV signal receiver.



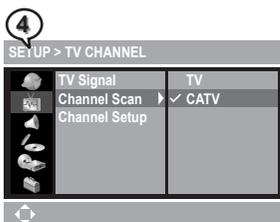
1 Press **Setup** to display the main Setup Menu.

2 Press to highlight **TV CHANNEL SETUP** icon, and a primary option window appears on the right.



3 Press to highlight **TV Signal**, and a secondary option window appears on the right.

4 Press again and then to highlight a preferred option. Press and a check appears in front of the selected option.



5 To return to the main Setup Menu, press twice. To leave the main Setup Menu, press **Setup**.

1-2 TV Channel Setup



Channel Scan Setting

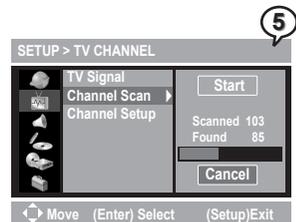
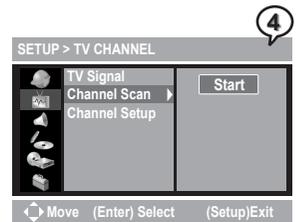
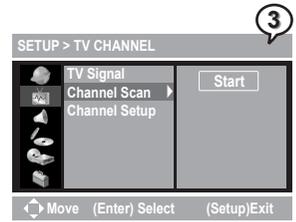
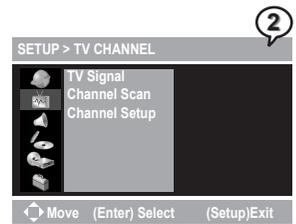
Channel Scan is a function of searching available TV channels which can be viewed through the HDD+DVD Recorder.

- 1 Press **Setup** to display the main Setup Menu.
- 2 Press **Down** to highlight **TV CHANNEL SETUP** icon, and a primary option window appears on the right.
- 3 Press **Right** and then **Down** to highlight **Channel Scan**, and a **Start** icon appears on the right window.
- 4 Press **Right** again to highlight **Start** and then **Enter** to start Channel Search. The recorder will store all the receivable stations into channels. This process may take several minutes to complete. The available Channel numbers will be displayed on the screen.
- 5 To cancel scanning, press **Enter** as **Cancel** is highlighted.
- 6 To return to the main Setup Menu, press **Left** twice. To leave the main Setup Menu, press **Setup**.



Note:

- While proceeding Channel Search, it will erase and replace all previously stored channels.
- To watch TV programs through the recorder after Channel Search is proceeded, press **Source** repeatedly until TV Channels appear on the screen.





1-2 TV Channel Setup - continued

Channel Setup Setting

Channel Setup is a function for selecting channels that can be watched through the recorder.

1 Press **Setup** to display the main Setup Menu.

2 Press to highlight **TV CHANNEL SETUP** icon, and a primary option window appears on the right.

3 Press and then to highlight **Channel Setup**, and a secondary option window appears on the right.

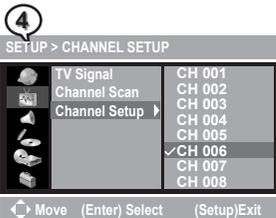
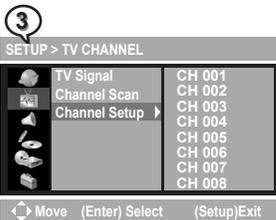
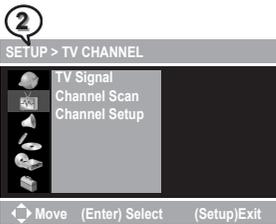
4 Press again and then to highlight a preferred channel. Press and a tick appears in front of the selected channel.

5 Repeat the above step to set the other preferred channels.

Note:

- These selected channels can be viewed as operating **Channel** on the remote control.
- Those unselected channels can only be operated by pressing **Number botton(s)**.

6 To return to the main Setup Menu, press twice. To leave the main Setup Menu, press **Setup**.



1-3 Audio & Video Setup



Speaker Setup Setting (Optional)

Speaker Setup is a function of setting the applied amplifiers.

- 1 Press **Setup** to display the main Setup Menu.
- 2 Press **Down** to highlight **AUDIO & VIDEO SETUP** icon, and a primary option window appears on the right.
- 3 Press **Right** to highlight **Speaker Setup**, and a secondary option window appears on the right.
- 4 Press **Right** again and then **Up** **Down** to select a preferred option. Press **Enter** and a check appears in front of the selected option.
- 5 To return to the main Setup Menu, press **Left** twice. To leave the main Setup Menu, press **Setup**.



Note:

- This function is available on HDD+DVD Recorder with 5.1 channel audio output.



SPDIF Setting

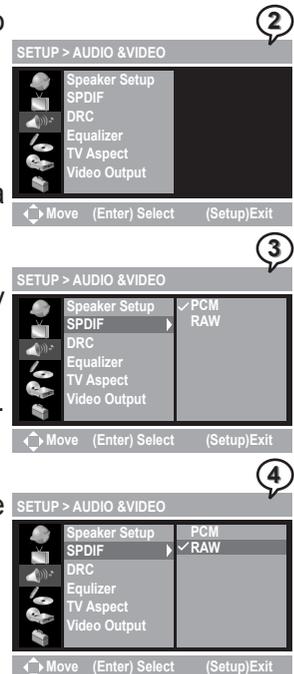
SPDIF is a function of selecting a proper audio output system to for the applied amplifiers.

- 1 Press **Setup** to display the main Setup Menu.
- 2 Press **Down** to highlight **AUDIO & VIDEO SETUP** icon, and a primary option window appears on the right.
- 3 Press **Right** and then **Down** to highlight **SPDIF**, and a secondary option window appears on the right.
- 4 Press **Right** again and then **Up** **Down** to select a preferred option. Press **Enter** and a check appears in front of the selected option.
- 5 To return to the main Setup Menu, press **Left** twice. To leave the main Setup Menu, press **Setup**.



Note:

- Select **PCM** when connecting to a 2-channel digital stereo amplifier.
- Select **RAW** when connecting the recorder's Digital Out jack to a Dolby Digital or DTS decoder (or other equipment with a Dolby Digital decoder).





1-3 Audio & Video Setup - continued

DRC Setting

DRC (Dynamic Range Compression) provides a function for compressing dynamic range of the audio output.

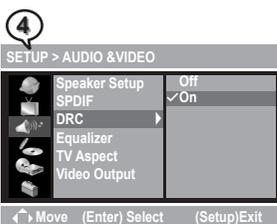
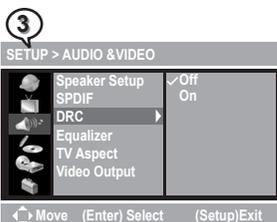
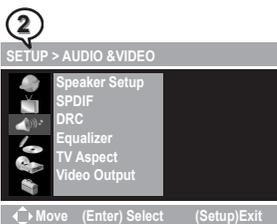
- 1 Press **Setup** to display the main Setup Menu.
- 2 Press to highlight **AUDIO & VIDEO SETUP** icon, and a primary option window appears on the right.
- 3 Press and then to highlight **DRC**, and a secondary option window appears on the right.
- 4 Press again and then to highlight a preferred option. Press and a check appears in front of the selected option.
- 5 To return to the main Setup Menu, press twice. To leave the main Setup Menu, press **Setup**.

Note: With the DVD format, a program's soundtrack in the most accurate and realistic presentation can be performed by digital audio technology. However, in some cases, a compressed dynamic range of the audio output (the difference between the loudest sounds and the quietest ones) might be required. For example, to view programs at night without disturbing other people, DRC function can help to achieve the effect.

Equalizer Setting

Equalizer provides a function for adjusting the performance of audio output.

- 1 Press **Setup** to display the main Setup Menu.
- 2 Press to highlight **AUDIO & VIDEO SETUP** icon, and a primary option window appears on the right.
- 3 Press and then to highlight **Equalizer**. Press again and an Equalizer window appears on the screen.

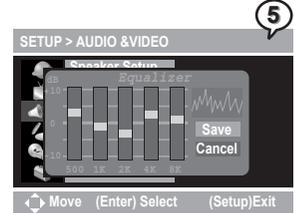
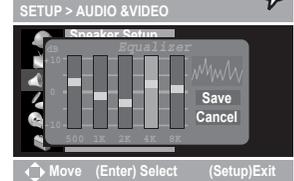


1-3 Audio & Video Setup - continued



Equalizer Setting - continued

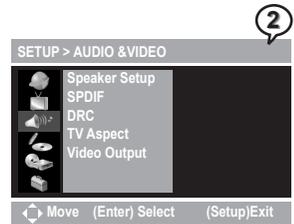
- 4 Press to highlight each event, and then press to adjust the dB values.
- 5 Press to highlight **Save** to save the setting, or press and then to highlight **Cancel** to cancel.
- 6 To return to the main Setup Menu, press . To leave the main Setup Menu, press **Setup**.



TV Aspect Setting

TV Aspect provides a function of selecting (4:3) or (16:9) TV type to for view programs through the HDD+DVD Recorder.

- 1 Press **Setup** to display the main Setup Menu.
- 2 Press to highlight **AUDIO & VIDEO SETUP** icon, and a primary option window appears on the right.
- 3 Press and then to highlight **TV Aspect**, and a secondary option window appears on the right.
- 4 Press again and then to highlight a preferred option.



a 4:3 Letter Box

Select "4:3 LetterBox" for a conventional size TV set.

Black bands appear at top and bottom of screen (letter-box style).

- Video material not formatted in the pan & scan style is played in the letter-box style.





1-3 Audio & Video Setup - continued

TV Aspect Setting - continued



b 4:3 Pan Scan

Select "4:3 PanScan" for a conventional size TV set.

- Video material formatted in the pan & scan style is played in that style (the left and right edges are cut off).



c 16:9 Wide

Select "16:9 Wide" for a wide-screen TV set to played in "FULL" size.

- Setting the wide-screen TV to "FULL" mode is also necessary.
- Each screen shows an example when the video material for a wide-screen is played.

5 Press  and a check appears in front of the selected option.

6 To return to the main Setup Menu, press  twice. To leave the main Setup Menu, press  **Setup**.

Video Output Setting

Video Output is the function of selecting a type of video output according to the output format.



1 Press  **Setup** to display the main Setup Menu.

2 Press  to highlight **AUDIO & VIDEO SETUP** icon, and a primary option window appears on the right.



3 Press  and then  to highlight **Video Output**, and a secondary option window appears on the right.

4 Press  again and press   to highlight a preferred option. Press  and a check will be shown in front of the selected option.



5 To return to the main Setup Menu, press  twice. To leave the main Setup Menu, press  **Setup**.



Note:

- Select **YCrCb** when TV provides Component feature and the unit's P-Scan Pr Y Pb Out jacks are connected to the TV's Component In jacks.

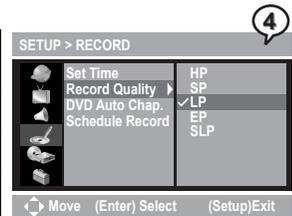
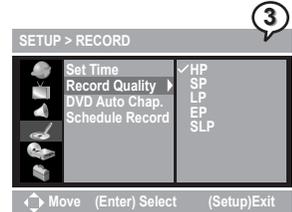
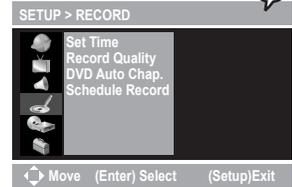
1-4 Record Setup



Record Quality Setting

Record Quality is a function of setting various recording qualities according to the user's needs.

- 1 Press **Setup** to display the main Setup Menu.
- 2 Press to highlight **RECORD SETUP** icon, and a primary option window appears on the right.
- 3 Press and then to highlight **Record Quality**, and a secondary option window appears on the right.
- 4 Press again and then to highlight a preferred option. Press and a tick appears in front of the selected option.



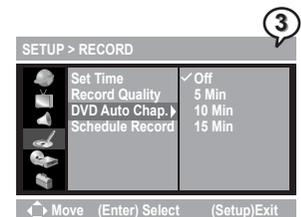
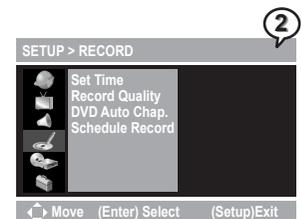
Record Mode	Recording Time for 40/80/120/160 GB Hard Disc	DVD+R/RW Recording Time
HQ: High Quality	Approx. 8/16.5/25/33.5 Hours	Approximate 1 Hour
SP: Standard Play	Approx. 16/33/50/67 Hours	Approximate 2 Hours
LP: Long Play	Approx. 24/50/75/100 Hours	Approximate 3 Hours
EP: Extended Play	Approx. 32/66/100/134 Hours	Approximate 4 Hours
SLP: Standard Long Play	Approx. 48/100/150/201 Hours	Approximate 6 Hours

- 5 To return to the main Setup Menu, press twice. To leave the main Setup Menu, press **Setup**.

DVD Auto Chapter Setting

DVD Auto Chapter is a function for automatically setting chapters in recording programs.

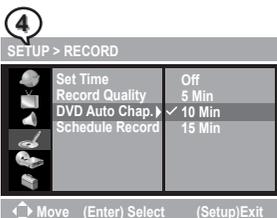
- 1 Press **Setup** to display the main Setup menu.
- 2 Press to highlight **RECORD SETUP** icon, and a primary option window appears on the right.
- 3 Press and then to highlight **DVD Auto Chap.**, and a secondary option window appears on the right.





1-4 Record Setup - continued

DVD Auto Chapter Setting - continued



4 Press again and then to highlight a preferred option. Press and a tick appears in front of the selected option.

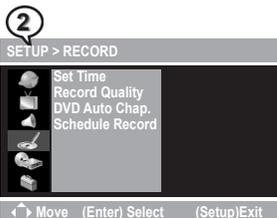
5 To return to the main Setup Menu, press twice. To leave the main Setup Menu, press **Setup**.



*Note: The recording program is automatically inserted a new chapter according to the selected interval time. If **Off** is selected, there will be only one chapter existed.*

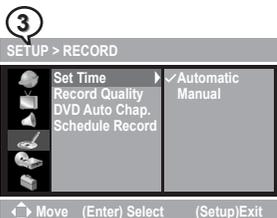
Set Time Setting

Set Time is a function of setting time clock in the HDD+DVD Recorder.



1 Press **Setup** to display the main Setup Menu.

2 Press to highlight **RECORD SETUP** icon, and a primary option window appears on the right.



3 Press to highlight **Set Time**, and a secondary option window appears on the right.

4 Press again and then to highlight a preferred option.

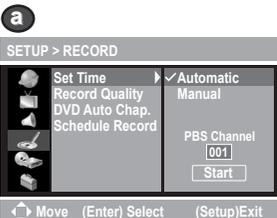
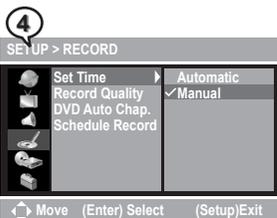
a Automatic Setup

• Press or **Number Button(s)** to adjust PBS channel. Press to highlight **Start** and then .

• Wait for the setup finishing or press to cancel the setup.



Note: The automatic time setting is set through scanning your local PBS channel. If the time was not set correctly, use manual setup to adjust.

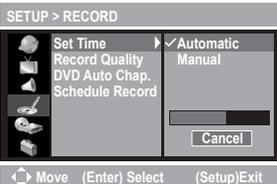


b Manual Setup

• Press and a time setup menu appears.

• Press to highlight **M/D/Y** (Month/Day/Year) and **H**(Hour): **M**(Minute).

• Press **Number Button(s)** or to change the setting of the highlighted event.



1-4 Record Setup - continued



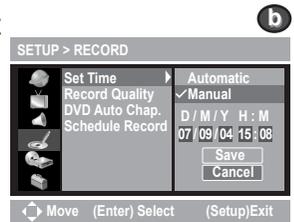
Set Time Setting - continued

- Press to highlight **Save** to save the setup, or highlight **Cancel** to cancel the setup. Press .

- 5 To return to the main Setup Menu, press twice. To leave the main Setup Menu, press **Setup**.



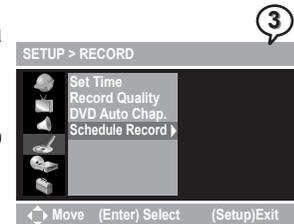
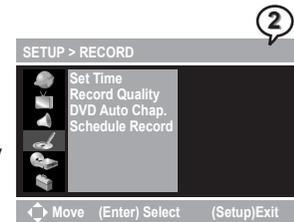
Note: Everytime before proceeding schedule recording, **Set Time** setting needs to be checked again to make sure the time information is correct.



Schedule Record Setting

Schedule Record is a function of setting recording schedules.

- 1 Press **Setup** to display the main Setup menu.
- 2 Press to highlight **RECORD SETUP** icon, and a primary option window appears on the right.
- 3 Press and then to highlight **Schedule Record**, and a secondary option window appears on the right.
- 4 Press again to enter the setup table. Press to select a row and press to enter a setup window.



- 5 **a** **VCR+ Code Setup**

VCR+ Code is an easy numeric system. All settings can be made by entering the desired program's code (3-8 digits number), which is available in the program guide or specified newspapers.

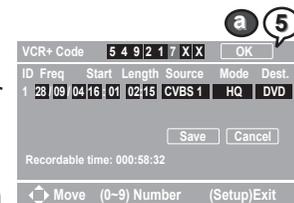
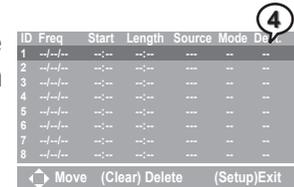
- Press and **Number Button(s)** to enter VCR+ Code. Highlight **OK** and press after entering the code.

- A **Mapped to channel** window appears, press or **Number Button(s)** to adjust Channel number if necessary.

- Press to highlight **Save** and press . **Freq**, **Start**, **Length** and **Source** are set automatically.

- Press to highlight **Mode** and **Dest..** Press to alter the setting if necessary.

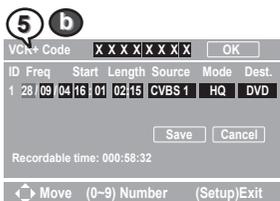
- When finishing all settings, press to highlight **Save** or **Cancel** to save or cancel the settings and then press to return to Schedule Record menu.





1-4 Record Setup - continued

Schedule Record Setting - continued



b Manual Setup

• Ignore the part of VCR+ Code setting and press to highlight the other events. Press **Number Button(s)** or to change the settings of each event.

Press to browse various settings for each event:

Freq. (Date)	Start	Length	Source	Mode	Dest. (Destination)
01/01/05	00:00	00:00	PR 001	HQ	DVD
Wkly Sun			DV	SLP	HDD
Wkly Sat			SCART	EP	
Wkly Fri			SVIDEO2	LP	
Wkly Thu			SVIDEO1	SP	
Wkly Wed			CVBS2		
Wkly Tue			CVBS1		
Wkly Mon					
Daily					
Mon-Fri					

• As finishing all settings, press to highlight **Save** or **Cancel** to save or cancel the settings and then press to return to Schedule Record menu.

6 To delete a schedule, press to highlight an ID, and then press **Clear**. An option window appears, press to highlight **Yes** or **No** and press .

7 To return to the main Setup Menu, press twice. To leave the main Setup Menu, press **Setup**.



Note:

• When the recording time of a new schedule is overlapped with the time of a previously set schedule, a window will appear to remind you that the entry of new schedule is invalid, and the time needs to be reset.

• Schedule recording can only be activated when the recorder is power off, but in Stand-by mode. If the recorder is still on when the schedule time is approaching, a time box will appear on the screen to remind you to turn off the recorder.

1-5 Disc Setup



Initialize DVD Setting

Initialize DVD provides the function of formatting DVD+RW discs.

- 1 Press **Setup** to display the main Setup Menu.
- 2 Press **↓** to highlight **DISC SETUP** icon, and a primary option window appears on the right.
- 3 Press **→** to highlight **Initialize DVD**.
- 4 Press **→** again to highlight **Start** and press **Enter**.
- 5 An option window appears.

a Press **Enter** as **No** is highlighted to cancel initializing the DVD disc.

To return to the main Setup Menu, press **←** twice. To leave the main Setup Menu, press **Setup**.

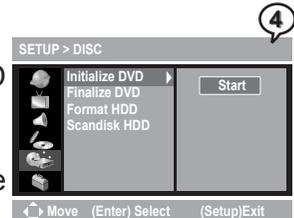
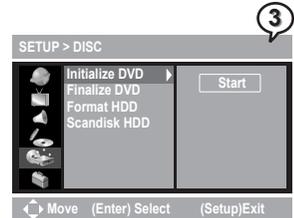
b Press **→** to highlight **Yes** and then press **Enter** to begin initializing the DVD disc.

To leave Setup Menu, press **Setup**.



Note:

- When **Initialize DVD** setting is in progress, the attempt of pressing any button on the remote control to cancel or pause the command will be invalid.
- This function will erase all programs recorded in the DVD disc, please reconsider the necessity of such acts before proceeding the function.





1-5 Disc Setup - continued

Finalize DVD Setting

Finalize DVD is a function for finalizing DVD+R discs.

- 1 Press **Setup** to display the main Setup Menu.
- 2 Press to highlight **DISC SETUP** icon, and a primary option window appears on the right.
- 3 Press and then to highlight **Finalize DVD**.
- 4 Press again to highlight **Start** and press .
- 5 An option window appears.

a Press as **No** is highlighted to cancel finalizing the DVD disc.

Press twice to return to the Setup Menu or press to leave.

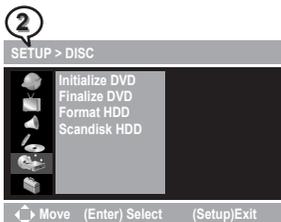
b Press to highlight **Yes** and then press to begin finalizing the DVD disc.

To leave Setup Menu, press .



Note:

- The function of **Finalize DVD** can be applied only **once** to a DVD+R disc.
- When **Finalize DVD** setting is in progress, the attempt of pressing any button on the remote control to cancel or pause the command will be invalid.





Format HDD Setting

Format HDD is a function for formatting HDD.

- 1 Press **Setup** to display the main Setup Menu.
- 2 Press to highlight **DISC SETUP** icon, and a primary option window appears on the right.
- 3 Press and then to highlight **Formatting HDD**.
- 4 Press again to highlight **Start** and press .
- 5 An option window appears.

a

Press as **No** is highlighted to cancel Formatting HDD.

Press twice to return to the Setup Menu or press to leave.

b

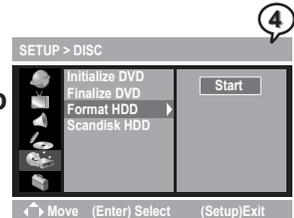
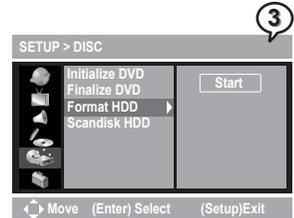
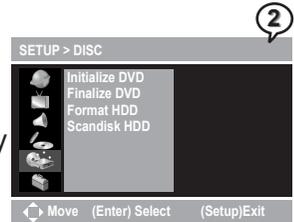
Press to highlight **Yes** and then press to begin formatting HDD.

To leave Setup Menu, press **Setup**.



Note:

- When **Format HDD** setting is in progress, the attempt of pressing any button on the remote control to cancel or pause the command will be invalid.
- This function will erase all programs recorded in HDD, please reconsider the necessity of such acts before proceeding the function.





1-5 Disc Setup - continued

Scandisk HDD Setting

Scandisk HDD is a function of scanning HDD to check if any defect occurs in the hard disc.

1 Press **Setup** to display the main Setup Menu.

2 Press to highlight **DISC SETUP** icon, and a primary option window appears on the right.

3 Press and then to highlight **Scandisk HDD**.

4 Press again to highlight **Start** and press .

5 An option window appears.

a Press as **No** is highlighted to cancel scanning HDD.

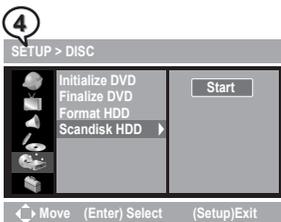
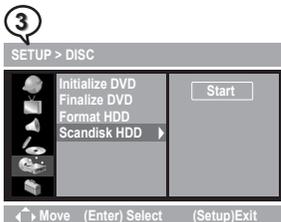
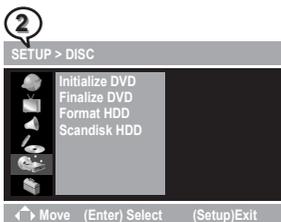
Press twice to return to the Setup Menu or press to leave.

b Press to highlight **Yes** and then press to begin scanning HDD.

To leave Setup Menu, press .



*Note: When **Scandisk HDD** setting is in progress, the attempt of pressing any button on the remote control to cancel or pause the command will be invalid.*



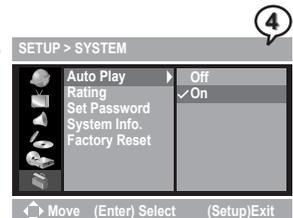
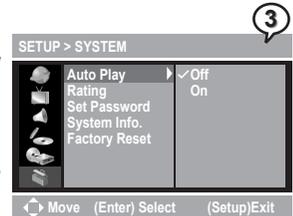
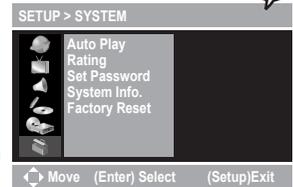
1-6 System Setup



Auto Play Setting

Auto Play is a function of setting automatic playback for DVD discs as the discs are loaded.

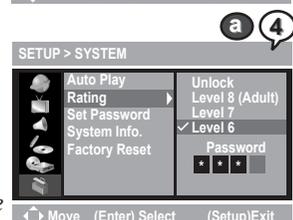
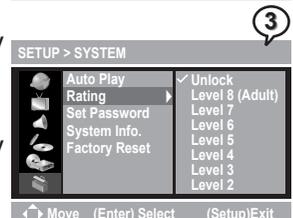
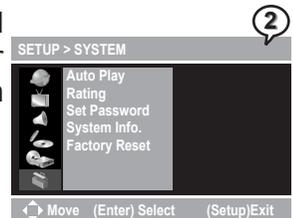
- 1 Press **Setup** to display the main Setup Menu.
- 2 Press to highlight **SYSTEM SETUP** icon. A primary option window appears on the right.
- 3 Press to highlight **Auto Play**, and a secondary option window appears on the right window.
- 4 Press and then to select a preferred option. Press and a check will be shown in front of the selected option.
- 5 To return to the main Setup Menu, press twice. To leave the main Setup Menu, press **Setup**.



Rating Setting

Rating Setting is a function of setting rating level for Parental Control. Movies on DVDs may contain scenes not suitable for children and therefore may contain Parental Control information that applies to the complete disc or to certain scenes on the disc.

- 1 Press **Setup** to display the main Setup Menu.
- 2 Press to highlight **SYSTEM SETUP** icon, and a primary option window appears on the right.
- 3 Press and then to highlight **Rating**, and a secondary option window appears on the right window.
- 4 Press and then to highlight a level. Press .
 Enter the password to set the new rating level.



*Note: Please refer **Set Password Setting** on the next page to review the function of setting password.*



1-6 System Setup - continued

Rating Setting - continued



4 **b**

If the entered password is wrong, an option window will appear. Press to highlight **Yes** or **No**, and then press to re-enter the password or leave the setting.

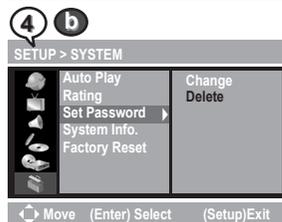
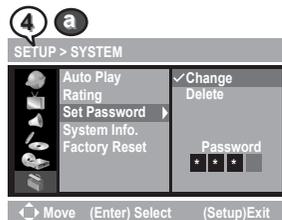
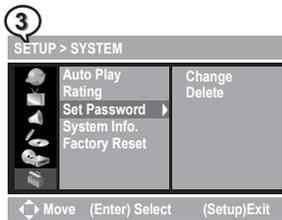
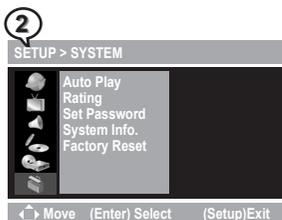
5

To return to the main Setup Menu, press twice. To leave the main Setup Menu, press **Setup**.



Note: Ratings are country-dependent. If Unlock is selected, Parental Control will be not active and the disc will be played in full.

Set Password Setting



Set Password is a function of setting a password for operating the function of Rating.

1

Press **Setup** to display the main Setup Menu.

2

Press to highlight **SYSTEM SETUP** icon, and a primary option window appears on the right.

3

Press and then to highlight **Set Password**, and a secondary option window appears on the right window.

4

Press and then to highlight an preferred option. Press .

a Change

Enter the default password “9999” or the previously set password.
Enter new password and verify.

b Delete

Enter the previously setted password and the **Delete** option will become invalid until the new password is set.

5

To return to the main Setup Menu, press twice. To leave the main Setup Menu, press **Setup**.

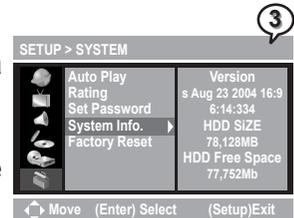
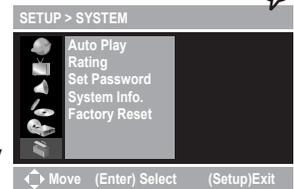
1-6 System Setup - continued



System Information Setting

System Information is the function of providing system information of the recorder.

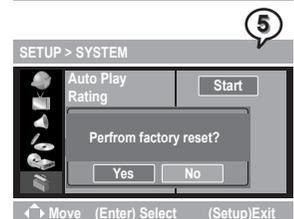
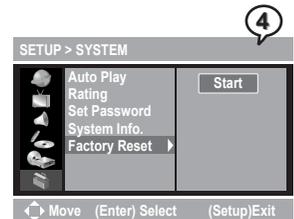
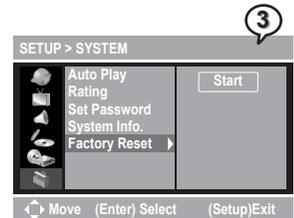
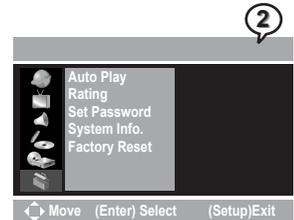
- 1 Press **Setup** to display the main Setup Menu.
- 2 Press to highlight **SYSTEM SETUP** icon, and a primary option window appears on the right.
- 3 Press and then to highlight **System Info.**, and a information window appears on the right.
- 4 To return to the main Setup Menu, press twice. To leave the main Setup Menu, press **Setup**.



Factory Reset Setting

Factory Reset is a function for setting the recorder to the default setting.

- 1 Press **Setup** to display the main Setup Menu.
- 2 Press to highlight **SYSTEM SETUP** icon, and a primary option window appears on the right.
- 3 Press and then to highlight **Factory Reset**.
- 4 Press again to highlight **Start** and press .
- 5 An option window appears.



- a** Press as **No** is highlighted to cancel factory reset.

To return to the main Setup Menu, press twice. To leave the main Setup Menu, press **Setup**.

- b** Press to highlight **Yes** and then press to begin factory reset.



2-1 Operation with HDD and DVD

Preparations:

- Press on the **Power** button of the TV set, and select “Video” as the TV input.
- Press on the **Power** button of the stereo system if the recorder has been connected to a stereo system.

Basic HDD Playback



- 1 Press **Power** on.
- 2 Press **HDD/DVD** to select HDD mode.
- 3 Press **Play**, a title menu appears on the screen, and the lastest recorded program starts playback behind the title menu.
- 4 Press on the remote control to highlight a preferred title. The seleted title will be played behind the title menu immediately as being highlighted.
- 5 To leave the title menu and watch the program, press **Play** again.

Basic DVD Playback



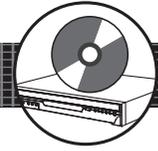
- 1 Press **Power** on.
- 2 Press **HDD/DVD** to select DVD mode.
- 3 Press **Eject** to open the disc tray.
- 4 Place a disc onto the tray. Press **Eject** to close the disc tray. After the disc tray closing, the DVD starts playback if Auto Play is set on.
- 5 If the disc has one or more titles recorded on it, a menu will appear on the TV screen. Press to highlight a program title in the menu.
- 6 Press **Play** to start playback the selected title.

Returning to Menu Screen During HDD Playback



- 1 Press **Menu** or **Title** during HDD playback to display the title menu.
To leave the menu, press **Play**.

2-1 Operation with HDD and DVD - continued



Stopping DVD Playback and Returning to the Menu Screen (If a Menu Screen Is Available on the Disc)

- 1 Press **Menu** during DVD playback to display the title menu.



Stopping HDD Playback

- 1 To stop HDD playback and to operate the inputs of external sources (TV, CVBS1, Video1 and DV etc.) in pass-through mode, press **Stop**.



Playing Back

Stopping DVD Playback

- 1 To stop DVD playback, press **Stop**.
- 2 To operate the inputs of external sources (TV, CVBS1, Video1 and DV etc.) in pass-through mode, press **Stop** again.



Fast Forward (Fast Backward)

- 1 Press **F.BWD** or **F.FWD** during playback.
The speed of DVD advance ($\gg x2$, $\gg x4$, $\gg x8$, $\gg x16$, $\gg x30$, $\gg x60$ and $\gg x100$) or DVD reverse ($\ll x2$, $\ll x4$, $\ll x8$, $\ll x16$, $\ll x30$, $\ll x60$ and $\ll x100$) changes for each press of **F.FWD** or **F.BWD**. The speed of VCD advance ($\gg x2$, $\gg x4$, $\gg x8$ and $\gg x16$) or VCD reverse ($\ll x2$, $\ll x4$, $\ll x8$ and $\ll x16$) changes for each press of **F.FWD** or **F.BWD**.
- 2 Press **Play** to return to normal playback.



Skipping Ahead or Back to Chapters

Skipping Ahead

- Press **Next** during playback.
Skips a chapter each time you press the button.



Skipping Back

- Press **Prev.** during playback.
When you press **Prev.** once midway through a chapter, the recorder returns to the previous chapter to start playback. The recorder skips the previous chapter each time you press the button.



2-1 Operation with HDD and DVD - continued

Pausing Playback



- 1 Press **Pause** to pause the playback.
- 2 Press **Play** to return to normal playback.

Frame Advance (Step)



- 1 Press **Pause** to pause the playback. The disc is advanced by one frame each time you press the button.
- 2 Press **Play** to return to normal playback.

Slow-Motion During Playback



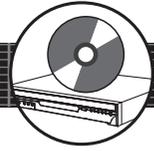
- 1 Press **Slow** during playback. The playback speed changes forwardly and backwardly (, , and) each time you press **Slow**.
- 2 Press **Play** to return to normal playback.

Selecting Scenes by Title Number



- 1 Press **Goto** during the playback. A menu box appears on the screen.
- 2 Press to select **Title**.
- 3 Press the **Number Button(s)** or to edit title number. New title will be played right after the reset.
- 4 Press **Goto** again to leave the menu box.

2-1 Operation with HDD and DVD - continued



Selecting Scenes by Chapter Number

- 1 Press **Goto** during playback. A menu box appears on the screen.
- 2 Press to select **Chapter**.
- 3 Press the **Number Button(s)** or to edit chapter number. New title will be played right after the reset.
- 4 Press **Goto** again to leave the menu box.



Playing Back

Selecting Scenes by Time

- 1 Press **Goto** during playback. A menu box appears on the screen.
- 2 Press to select **Time**.
- 3 Press the **Number Button(s)** to edit playing time. New scene will be played right after the reset of time.
- 4 Press **Goto** again to leave the menu box.



Selecting Audio System During Playback

- 1 Press **Goto** during the playback. A menu box appears on the screen.
- 2 Press to select **Audio**.
- 3 Press to edit audio setting.
- 4 Press **Goto** again to leave the menu box.





2-1 Operation with HDD and DVD - continued

Selecting Subtitle During Playback

- 1 Press **Goto** during playback. A menu box appears on the screen.
- 2 Press **Up** **Down** to select **Subtitle**.
- 3 Press **Right** **Left** to edit subtitle setting.
- 4 Press **Goto** again to leave the menu box.

Note: This function is not available in HDD mode.

Selecting Angle During Playback

- 1 Press **Goto** during playback. A menu box appears on the screen.
- 2 Press **Up** **Down** to select **Angle**.
- 3 Press the **Number Button(s)** or **Right** **Left** to edit angle number. New viewing angle will be played right after the reset.
- 4 Press **Goto** again to leave the menu box.

Note: This function is not available in HDD mode.

Displaying the Information of the Scene

Displaying the Information of the Scene

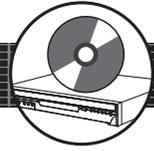
Press **Info.** during playback, a list appears to provide information, including Title, Chapter, Time, Audio, Subtitle, Angle, Remained time of Current Title Chapter and Free Space of Recordable Media, will be shown on the screen.

Stop Displaying the Information of the Scene

Press **Info.** again to close the Info. list.



2-1 Operation with HDD and DVD - continued



Repeating a Sequence Between Two Specific Points (A-B Repeat)

- 1 Press **A-B Repeat A-B** during playback.
 OFF appears on the right corner of the screen.
- 2 Press **A-B Repeat A-B** again during the playback at the point where repeat play is to start (A).
 A appears on the right corner of the screen.
- 3 Press **A-B Repeat A-B** again during the playback at the point where repeat play is to end (B).
 B appears on the right corner of the screen.
- 4 The recorder starts to play the section between A and B repeatedly.
- 5 To return to normal playback, press **A-B Repeat A-B** until **OFF** appears.



Playing Back

Repeating HDD Playback

- 1 Press **1/ALL Repeat 1/ALL** repeatedly to operate the following functions during the playback.

- TITLE** : The current Title will be played repeatedly.
- ALL** : All Titles will be played repeatedly.
- OFF** : Repeated playback will be off and return to normal playback.



Repeating DVD Playback

- 1 Press **1/ALL Repeat 1/ALL** repeatedly to operate the following functions during the playback.

- CHAPTER** : The current Chapter will be played repeatedly.
- TITLE** : The current Title will be played repeatedly.
- OFF** : Repeated playback will be off and return to normal playback.





2-1 Operation with HDD and DVD - continued

Zooming a Scene During Playback

- 1 Press **Zoom** during playback, a zoom window will appear on the right bottom side of the screen.
- 2 Press **Zoom** a number of times to watch the scene with different enlargements.
- 3 Press to choose a preferred position of the scene to view it in **Zoom %200**, **Zoom %400** and **Zoom %800**.
- 4 To return to normal playback, press **Zoom** a number of times until the zoom window disappears.



Changing Audio Soundtrack Language

- 1 Press **Audio** repeatedly during playback to select a preferred language.



Note:

- This operation functions only with discs on which multiple audio soundtrack languages are recorded.
- When the preferred language is not among the options, it may indicate that the language is not available on the disc.
- If you do not select any language as the audio soundtrack language, the DVD Recorder will play back a prior language programmed on the disc.

Changing Subtitles

- 1 Press **Subtitle** repeatedly during playback to select a preferred subtitle.
- 2 To hide subtitle, press **Subtitle** repeatedly to select "Subtitle Off".



Note:

- This operation functions only with discs that provide subtitles.
- When the preferred language is not among the options, it may indicate that the language is not available on the disc.
- If you do not select any language as the audio soundtrack language, the recorder will play back a prior language programmed on the disc.
- In some cases, the subtitle language may not change immediately to the selected one.

2-1 Operation with HDD and DVD - continued



Viewing from Different Angles

- 1 Press **Angle** repeatedly during playback to select a preferred viewing angle.



Note:

- This operation works only with discs that have been recorded with various angles. The viewing angle are shown on the player's display and you can select one from them for viewing
- The recorded angles vary depending on the disc programmed.



VCD Menu (only for VCD 2.0)

- 1 Press **PBC** twice during playback.
- 2 Press **Number Button(s)** to select a preferred item and then press to enter.
- 3 To return to the menu screen while playback, press **Return**. (This function only works when PBC function is set to ON.)



Note:

- **PBC** function provides a menu for choosing and starting from a selected chapter only on VCD 2.0 discs with menus recorded on.
- The default of **PBC** function is set to ON. By pressing **PBC** once, you'll turn off this function.



Muting the Recorder

- 1 Press **Mute** during playback, a MUTE icon appears on the left corner of the screen.
- 2 To resume the sound, press **Mute** again.



Using Volume Function

- 1 Press **Volume** during playback to adjust volume.





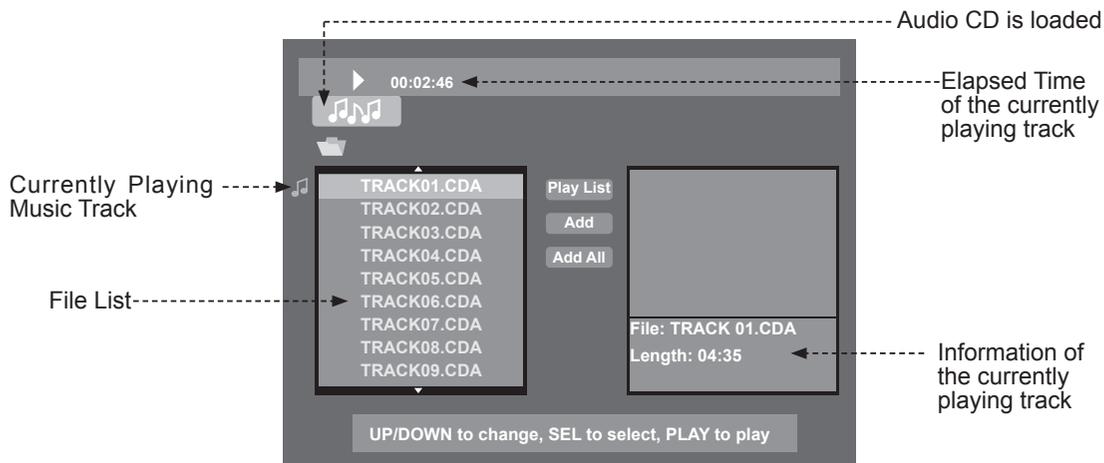
2-2 Audio CD Operation

Preparations:

- Press on the **Power** button of the TV set, and select “Video” as the TV input.
- Power on the stereo system if the recorder has been connected to a stereo system.

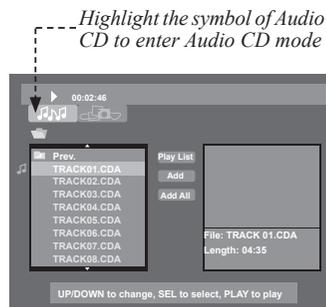
Basic Playback

- 1 Press **Power** on.
- 2 Press **HDD/DVD** to set the recorder to DVD mode.
- 3 Press **Eject** to open the disc tray. Place an audio disc onto the tray.
- 4 Press **Eject** to close the disc tray. After the disc tray closing, the recorder starts playback from the first track.
- 5 To play other tracks, press to highlight a preferred music title in the menu. Press to start playback of the selected title.

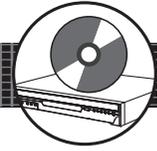


Note:

- Some discs might contain both audio and picture files, to select Audio CD mode, press to highlight the symbol of Audio CD and press .
- When a disc contains files saved in more than one folders, the folders will be displayed on the File List.
- To enter one of the folders, press to highlight the preferred folder and press . The files among the folder will be displayed on the File List.



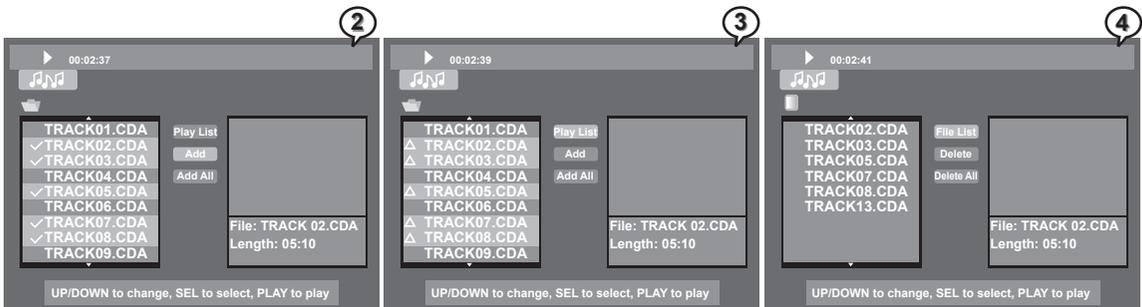
2-2 Audio CD Operation - continued



Adding Parts of Audio CD Tracks into Play List

- 1 Press to highlight a preferred music track which is going to be programmed into the Play List and then press . A tick appears in front of the selected track.
- 2 Repeat the above step to select other music tracks for Play List programming. Press to highlight **Add** and then press .
- 3 Triangle symbols appears in front of all the selected music tracks. Press to highlight **Play List** and then press .
- 4 The music tracks just selected appear in the Play List in the order according to the File List. If intending to alter the order of the music tracks, proceed **Add** each time after selecting a music track.
- 5 To play the music in the Play List, press to highlight a music track in the menu. Press to start playback the Play List from the highlighted track.
- 6 To return to the File List, highlight **File List** and press .

Note: The Programming of Play List can be proceeded both in the stop mode and during playback..



Adding All Audio CD Tracks into Play List

- 1 Press to highlight **Add All** and then press .
- 2 Triangle symbols appear in front of all the music tracks on the file list. Press to highlight **Play List** and then press . Play List displays all music tracks of the disc.





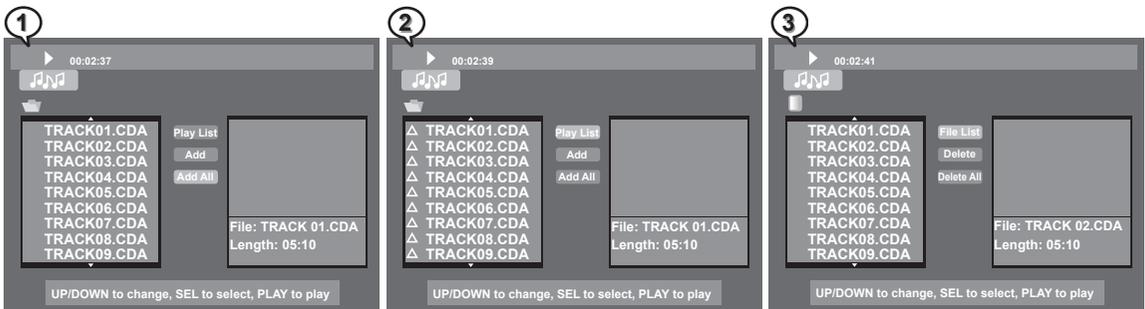
2-2 Audio CD Operation - continued

Adding All Audio CD Tracks into Play List - continued

- To play the music in the Play List, press to highlight a music track in the menu. Press to start playback the Play List from the highlighted track.
- To return to the File List, highlight **File List** and press .



Note: The Programming of Play List can be proceeded both in the stop mode and during playback..

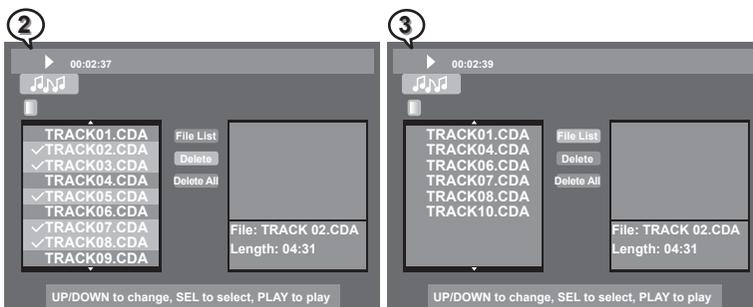


Deleting Parts of Music Tracks from Play List

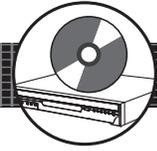
- Press to highlight a music track which is going to be removed from the Play List and then press . A tick appears in front of the selected track.
- Repeat the above step to select other music tracks which are intended to be removed for the Play List. Press to highlight **Delete** and then press .
- The selected tracks are deleted from Play List. If intending to delete music tracks one by one, highlight a music track and press **Clear**. The highlighted track will be removed from the Play List.
- To return to the File List, highlight **File List** and press .



Note: The Programming of Play List can be proceeded both in the stop mode and during playback.



2-2 Audio CD Operation - continued

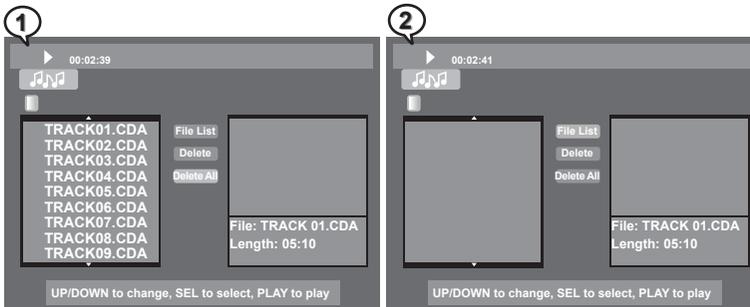


Deleting All Music Tracks from Play List

- 1 Press to highlight **Delete All** and then press .
- 2 All music tracks on the Play List are removed. To return to the File List, highlight **File List** and press .



Note: The Programming of Play List can be proceeded both in the stop mode and during playback..



Playing Back

Stopping Playback

- 1 Press **Stop** to stop the playback.



Fast Forward (Fast Backward)

- 1 Press **F.FWD** or **F.BWD** during playback.
The speed of advance (, , and) or reverse (, , and) changes for each press of **F.FWD** or **F.BWD**.
- 2 Press **Play** to return to normal playback.



Skipping Tracks Ahead or Back

Skipping Ahead

Press **Next** during playback.
A track each time you press the button.



Skipping Back

Press **Prev.** during playback.
When pressing **Prev.** midway through a track, the playback returns to the previous music track. The recorder skips a track each time pressing the button.



2-2 Audio CD Operation - continued

Pausing Playback



- 1 Press **Pause** to pause the playback.
- 2 Press **Play** to return to normal playback.

Repeating a Music Sequence Between Two Specific Times (A-B Repeat)



- 1 Press **Repeat A-B** during the playback at the time where repeat play is to start (A).
 appears on the middle top of the screen.
- 2 Press **Repeat A-B** again during the playback at the timewhere repeat play is to end (B).
 appears on the middle top of the screen.
- 3 The music track starts to play the section between time A and time B repeatedly.
- 4 To return to normal playback, press **Repeat A-B** until the icon disappears.

Repeating Playback



- 1 Press **Repeat 1/ALL** repeatedly to operate the following functions during the playback.
: The currentTrack will be played repeatedly.
: The Disc will be played repeatedly.
- 2 To return to normal playback, press **Repeat 1/ALL** until the icon disappears.

Displaying the Disc Information



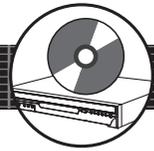
Displaying the Information of the Track

Press **Info.** during playback, a list appears to show information of Current Play, Elapse Time and Remain Time.

Stop Displaying the Information of the Track

Press **Info.** again to close the Information list.

2-3 Kodak and JPEG Picture CDs Operation



Playing Picture CDs Back

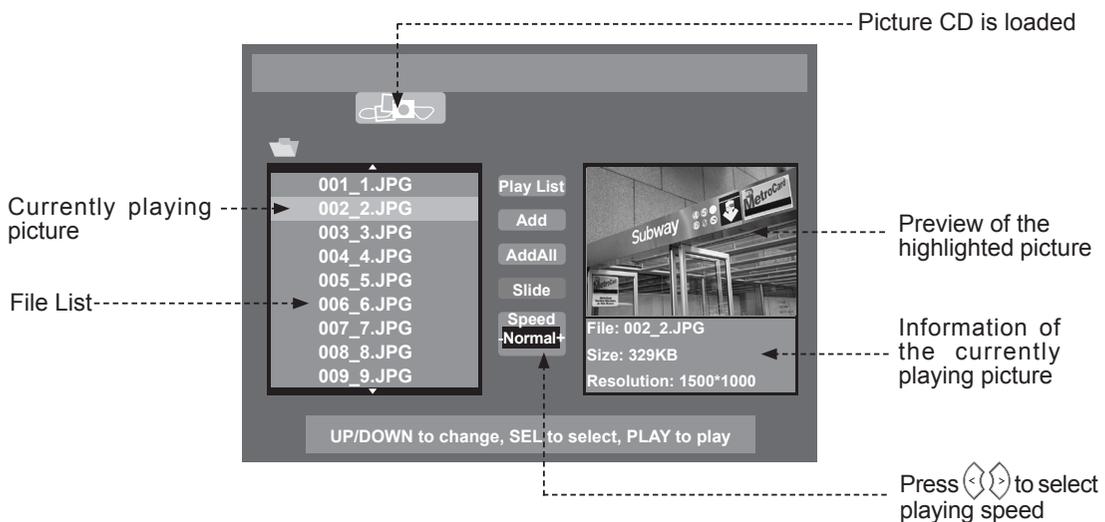
- 1 Press **Power** on.
- 2 Press **HDD/DVD** to set the recorder to DVD mode.
- 3 Press **Eject** to open the disc tray. Place a picture disc onto the tray.
- 4 Press **Eject** to close the disc tray. The recorder starts to play the picture CD back. Photos will be presented in a slide show automatically.



Playing Back

Stopping Playback to Display the File List

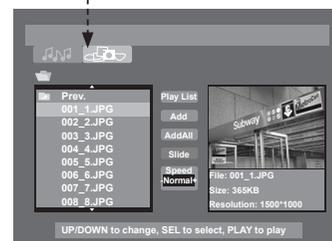
- 1 Press **Stop** to stop the playback, a File List appears on the screen.



Note:

- Some discs might contain both audio and picture files, to select Picture CD mode, press to highlight the symbol of Picture CD and press .
- When a disc contains files saved in more than one folders, the folders will be displayed on the File List.
- To enter one of the folders, press to highlight the preferred folder and press . The files among the folder will be displayed on the File List.

Highlight the symbol of Picture CD to enter Picture CD mode





2-3 Kodak and JPEG Picture CDs Operation - continued

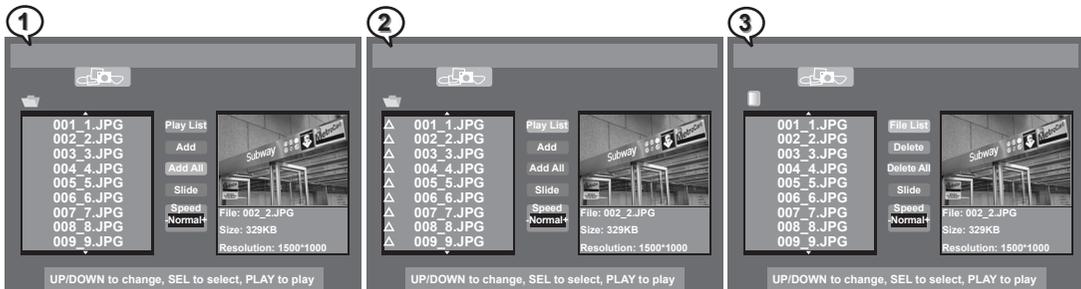
Adding Parts of Picture Files into Play List

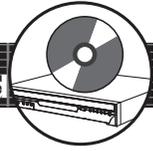
- 1 Press to highlight a preferred picture which is going to be programmed into the Play List and then press . A tick appears in front of the selected picture.
- 2 Repeat the above step to select other pictures for Play List programming. Press to highlight **Add** and then press .
- 3 Triangle symbols appears in front of all the selected pictures. Press to highlight **Play List** and then press .
- 4 The pictures just selected appear in the Play List in the order according to the File List. If intending to alter the order of the pictures, proceed **Add** each time after selecting a picture file.
- 5 To play the pictures on the Play List, press to start playback, or press to highlight **Slide** and press .
- 6 To return to the File List, highlight **File List** and press .



Adding All Picture Files into Play List

- 1 Press to highlight **Add All** and then press .
- 2 Triangle symbols appear in front of all the picture files on the File List. Press to highlight **Play List** and then press .
- 3 Play List displays all music tracks of the disc.



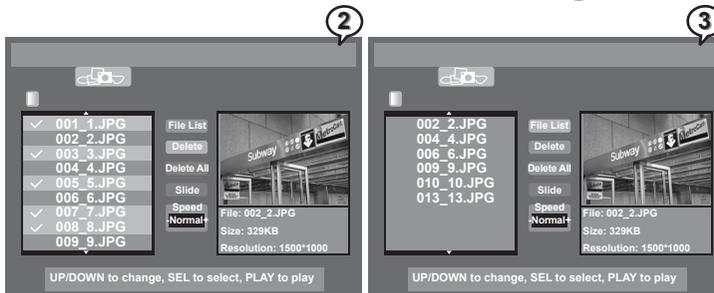


Adding All Picture Files into Play List - continued

- To play the pictures on the Play List, press to start playback, or press to highlight **Slide** and press .
- To return to the File List, highlight **File List** and press .

Deleting Parts of Picture Files from Play List

- Press to highlight a music track which is going to be removed from the Play List and then press . A tick appears in front of the selected track.
- Repeat the above step to select other music tracks which are intended to be removed for the Play List. Press to highlight **Delete** and then press .
- The selected tracks are deleted from Play List. If intending to delete music tracks one by one, highlight a music track and press **Clear**. The highlighted track will be removed from the Play List.
- To return to the File List, highlight **File List** and press .



Deleting All Picture Files from File List

- Press to highlight **Delete All** and then press .
- All picture files on the Play List are removed. To return to the File List, highlight **File List** and press .





Viewing Pictures through Other Functions

Zoom



- 1 Press **Zoom** repeatedly to view photos with different sizes Zoom x2, Zoom x4, Zoom x1/2, Zoom x1/4 and normal.
- 2 Press **Left**, **Right**, **Up**, **Down** to view different parts of the photo in close-up mode.

Pause, Next and Prev.



- 1 Press **Pause** to pause the playback. Press **Pause** to return to normal playback.
- 2 Press **Next** and **Prev.** to view the next or previous photo.

Rotating



- 1 To rotate a picture on the screen, press **Pause** and **Left**, **Right**, **Up**, **Down** to rotate the photo by 90 degree.
- 2 The Slide Show will stop after using the above functions. To resume the Slide Show, press **Next**.

Repeating



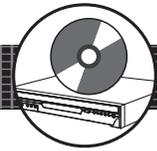
- 1 Press **Repeat 1/ALL** during playback, a REPEAT box appears on the top right corner. The slideshow will be played repeatedly.
- 2 To return normal playback, press **Repeat 1/ALL** again, and a REPEAT OFF box appears on the screen.

Information



- 1 Press **Info.** during playback, an information list appears. Some picture discs can provide the information of File, Size, Resolution, Make, Model, Time, Exposure time, F-number and ISO.
- 2 To leave the information box, press **Info.** again.

2-4 DV Operation



DV Control Function

- 1 Connect the recorder to DV.
- 2 Turn on  **Power** of the recorder and DV.
- 3 Press  **Source** on the remote control repeatedly until DV source is set.
- 4 Press  **DV Control** on the remote control. A DV controller menu appears on the top of the screen.
- 5 The DV now can be operated through the remote control of the recorder.
 - To play the DV program, press  **Play**.
 - To pause the program, press  **Pause**.
 - To fast forward or fast backward the playback, press  **F.Bwd/ F.Fwd**.
 - To stop playback, press  **Stop**.
- 6 To leave DV controller menu, press  **DV Control**.



Playing Back



3-1 Before Recording

This chapter shows you how to record HDD or DVD discs from external sources by using the remote control. Some of the functions may require readdressing your OSD Settings. Please refer to Chapter 1-4: RECORD Setup for details.

Recording Option

- (1) One touch recording from any video source
- (2) AV/DV/Tuner/Hard drive to DVD+R/DVD+RW.
- (3) AV/DV/Tuner/DVD to hard drive.

Basic Recording Troubleshooting

Please check the following if recording doesn't happen.

- (1) Correct placement of disc.
- (2) Use only hard drive or DVD+R/RW discs for recording.
- (3) Compatible disc formats.
- (4) Free recording space on disc.
- (5) Correct connections to the external equipment (please refer to the *Quick Connection Guide*).
- (6) Please place disc in recorder again if all fails.

Schedule Recording Troubleshooting

Please check the following if recording doesn't happen.

- (1) Disc is loaded onto the disc tray.
- (2) Free space on the HDD or DVD+R/RW discs
- (3) Power is turned off.
- (4) Unprotect Disc is set to On (please refer to *Chapter 4-2 Editing DVD: Editing Titles in the Title Menu* on page 62).

3-2 Recording Overview



Recording Quality Setting

- 1 Press **Quality** in the stop mode, a quality box appears on the middle button of the screen. The box indicates the current quality setting and the remain recording time of the disc.
- 2 To change the quality setting, press **Quality** repeatedly to select a preferred recording quality and check the remain time for recording.

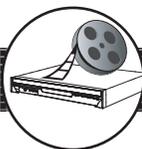


Recording External Sources to HDD

- 1 Connect the recorder to TV.
- 2 Turn on **Power** of the recorder and external equipment.
- 3 Press **HDD/DVD** to set the recorder to HDD mode.
- 4 Press **Source** on the remote control to toggle among different external A/V input sources.
- 5 Press **Record** on the remote control to begin to record. This recorder contains the function of One Touch Recording, and it can specify a time to stop recording. During recording, the following time period can be set by pressing **Record** repeatedly. The options of recording time could be vary according to the setup of recording quality and the remained disk space.

```
graph LR
    30[30 mins] --> 60[60 mins]
    60 --> 90[90 mins]
    90 --> 120[120 mins]
    120 --> 180[180 mins]
    180 --> 150[150 mins]
    30 --- Cancel[Cancel specifying a recording time]
    180 --- Cancel
```
- 6 To pause the recording, press **Pause**. To resume the recording, press **Record** again.
- 7 Press **Stop** on the remote control to stop HDD recording.
- 8 Press **Play** to review the title just recorded.





3-2 Recording Overview - continued

Recording External Sources to DVD

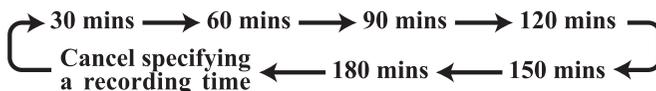


- 1 Connect the recorder to TV.
- 2 Turn on **Power** of the recorder and external equipment.
- 3 Press **HDD/DVD** to set the recorder to DVD mode.
- 4 Press **Eject** to open the disc tray.
- 5 Place a recordable DVD+RW or DVD+R disc onto the tray.
- 6 Press **Eject** to close the disc tray.



*Note: If you use an unused DVD+RW or DVD+R disc, the first reading will take about one minute. If the recorder reads a new DVD disc, a format dialogue box will appear. Highlight **OK** and press to format the disc, or highlight **Abort** and press to cancel. If the recorder reads a used DVD disc, a Title menu will show the available titles for playback and available space left for recording.*

- 7 Press **Source** on the remote control to toggle among different external A/V input sources.
- 8 Press **Record** on the remote control to begin to record. This recorder contains the function of One Touch Recording, and it can specify a time to stop recording. During recording, the following time period can be set by pressing **Record** button repeatedly. The options of recording time could be vary according to the setup of recording quality and the remained disc space.



- 9 To pause the recording, press **Pause**. To resume the recording, press **Record** again.
- 10 Press **Stop** on the remote control to stop HDD recording.
- 11 Press **Play** to review the title just recorded.

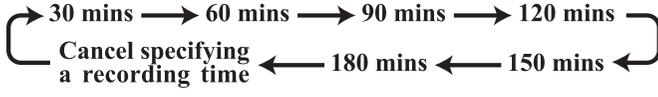


Recording

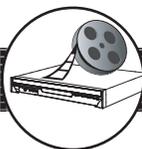
3-2 Recording Overview - continued



Recording TV Programs to HDD

- 1 Connect the recorder to the TV set.
- 2 Turn on  **Power** of the recorder and the TV set.
- 3 Press  **HDD/DVD** to set the recorder to HDD mode.
- 4 Press  **Source** on the remote control to view TV channels through the HDD+DVD Recorder.
- 5 Press  **Channel** or **Number Button(s)** to select a preferred channel to record.
- 6 Press  **Record** on the remote control to begin to record. This recorder contains the function of One Touch Recording, and it can specify a time to stop recording. During recording, the following time period can be set by pressing  **Record** button repeatedly. The options of recording time could be vary according to the setup of recording quality and the remained disk space.

- 7 To pause the recording, press  **Pause**. As the recording is paused, you can select the other channel to record. To resume the recording, press  **Record** again.
- 8 Press  **Stop** on the remote control to stop HDD recording.
- 9 Press  **Play** to review the title just recorded.





3-2 Recording Overview - continued

Recording TV Programs to DVD



- 1 Connect the recorder to the TV set.
 - 2 Turn on **Power** of the recorder and the TV set.
 - 3 Press **HDD/DVD** to set the recorder to DVD mode.
 - 4 Press **Eject** to open the disc tray.
 - 5 Place a recordable DVD+RW or DVD+R disc onto the tray.
 - 6 Press **Eject** to close the disc tray.
- Note:** If you use an unused DVD+RW or DVD+R disc, the first reading will take about one minute. If the recorder reads a new DVD disc, a format dialogue box will appear. Highlight **OK** and press to format the disc, or highlight **Abort** and press to cancel. If the recorder reads a used DVD disc, a Title menu will show the available titles for playback and available space left for recording.
- 7 Press **Source** on the remote control to view TV channels through the HDD+DVD Recorder.
 - 8 Press **Channel** or **Number Button(s)** to select a preferred channel to record.
 - 9 Press **Record** on the remote control to begin to record. This recorder contains the function of One Touch Recording, and it can specify a time to stop recording. During recording, the following time period can be set by pressing **Record** repeatedly. The options of recording time could vary according to the setup of recording quality and the remained disc space.

30 mins → 60 mins → 90 mins → 120 mins
 Cancel specifying a recording time ← 180 mins ← 150 mins ←
 - 10 To pause the recording, press **Pause**. As the recording is paused, you can select the other channel to record. To resume the recording, press **Record** again.
 - 11 To stop recording, press **Stop** on the remote control.
 - 12 Press **Play** to review the title just recorded.



Recording

3-3 Timeshift Operation



Timeshift Operation in HDD

Timeshift is a convenient function for temporarily storing TV programs in the HDD for later viewing.

- 1 Connect the recorder to the TV set.
- 2 Turn on  **Power** of the recorder and the TV set.
- 3 Press  **Source** on the remote control to view TV channels through the HDD+DVD Recorder.
- 4 Press   **Channel** or **Number Button(s)** to select a preferred channel to view.
- 5 Press  **Timeshift** while watching a TV program.
- 6 During Timeshift is proceeding, press  **Play**, and playback starts from the very beginning of the Timeshift.
- 7 To watch the timeshift program backward or forward, press   **F.Bwd** or **F.Fwd**
- 8 To pause the timeshift playback, press  **Pause**. To resume the playback, press  **Play**.
- 9 To go to the end point of Timeshift, press  **Next**.
- 10 To stop Timeshift, press  **Stop**.



Note:

- Press  **Info**. as playing the timeshift, the information box indicates the time between the current viewing point and the actual Timeshift recording point.
- The function of Timeshift can store a program in the HDD temporarily. Once stop Timeshift, the temporarily stored program will be deleted.



Recording



3-4 Schedule Recording

Using Schedule Recording

Schedule recording of this HDD+ DVD recorder provides 8 events of recording settings which allow users to record preferred programs in the most convenient ways. Please refer to Chapter 1-4 Record Setup: **Schedule Recording Setting** on page 25 for details.



4-1 Editing HDD



Deleting HDD Recording Titles

- 1 Press **HDD/DVD** to set the recorder to HDD mode.
- 2 Press **Play**, a title menu appears on the screen, and the latest recorded program starts playback behind the title menu.
- 3 Press to highlight a title that is intended to be edited.
- 4 Press , the playback will be paused, and an editing option window appears on the right.
- 5 Press to highlight **Delete** and press .
- 6 An option window appears.



a Press as **No** is highlighted to cancel deleting title.

Press to return to the HDD title menu.

b Press to highlight **Yes** and then press to begin deleting the title. The screen directly returns to the title menu.

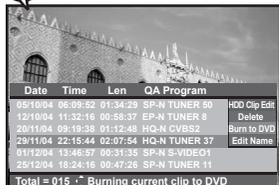




4-1 Editing HDD - continued

Dubbing HDD Recording Titles

8



- 1 Press **Eject** to open the disc tray.
- 2 Place a recordable DVD+RW or DVD+R disc onto the tray.
- 3 Press **Eject** to close the disc tray.
- 4 Press **HDD/DVD** to set the recorder to HDD mode.
- 5 Press **Play** to display the title menu. The recording is directly playing the last recorded title.
- 6 Press to highlight a title that is intended to be edited.
- 7 Press , the playback will be paused, and an editing option window appears on the right.
- 8 Press to highlight **Burn to DVD** and press .
- 9 An option window appears.
 - a Press as **No** is highlighted to cancel dubbing the title.
Press to return to the HDD title menu.
 - b Press to highlight **Yes** and then press to begin dubbing the title. After the dubbing process is finished, review the DVD title menu to check if the dubbing is successfully operated.

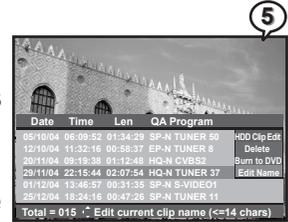


4-1 Editing HDD - continued



Editing Title Names in HDD

- 1 Press **HDD/DVD** to set the recorder to HDD mode.
- 2 Press **Play** to display the title menu. The recording is directly playing the last recorded title.
- 3 Press to highlight a title that is intended to be edited.
- 4 Press , the playback will be paused, and an editing option window appears on the right.
- 5 Press to highlight **Edit Name** and press .
- 6 A keyboard menu appears. Press to select characters and press to enter.
- 7 To leave the keyboard menu, press select **Done** and press . The new named title will be shown on the title menu.

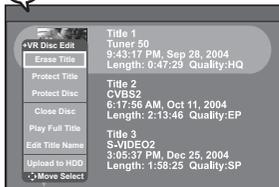




4-2 Editing DVD

Editing Titles in the Title Menu

3



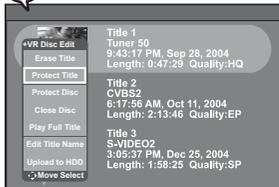
Erase Title

- 1 Press to highlight a title that is intended to be edited in the Title Menu.
- 2 Press **Edit**, an edit menu appears.
- 3 Press to highlight **Erase Title** and press to process the erasure.
- 4 The updated Title Menu will appear on the screen.



Editing

3



Protect/Unprotect Title

- 1 Press to highlight a title that is intended to be edited in the Title Menu.
- 2 Press **Edit**, an edit menu appears.
- 3 Press to highlight **Protect Title/Unprotect Title** and press .



*Note: If the title is protected, the functions of **Erase Title**, **Close Disc**, **Make Compatible** and **Edit Title Name** will become invalid. To resume these functions, unprotect the title.*

2



Protect/Unprotect Disc

- 1 Press **Edit**, an edit menu appears.
- 2 Press to highlight **Protect Disc/Unprotect Disc** and press .



*Note: If the Disc is protected, the functions of **Erase Title**, **Close Disc**, **Make Compatible** and **Edit Title Name** will become invalid. To resume these functions, unprotect the Disc.*

4-2 Editing DVD - continued



Editing Titles in the Title Menu - continued

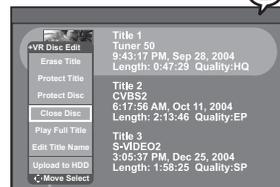
Close Disc (only for DVD+R discs)

- 1 Press **Edit**, an edit menu appears.
- 2 Press to highlight **Close Disc** and press to start the process.



Note:

- If a DVD+R disc is closed, the disc will not be able to be recorded or erased programs.
- As this command may not be paused or cancelled, please reconsider the necessity of such acts.



Make Compatible (only for DVD+RW discs)

- 1 Press **Edit**, an edit menu appears.
- 2 Press to highlight **Make Compatible** and press to start the process.



Note: If a DVD+RW disc is made compatible, the disc will be able to be played in other DVD recorders or players.



Editing

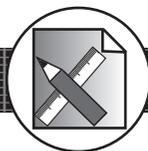
Play Full Title

- 1 Press to highlight a title that is intended to be edited in the Title Menu.
- 2 Press **Edit**, an edit menu appears.
- 3 Press to highlight **Play Full Title** and press . The title starts playback.



Note: The function of **Play Full Title** can play the whole title back, including all the hidden chapters.





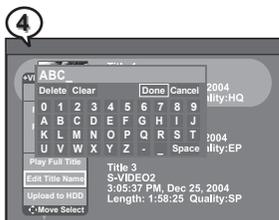
4-2 Editing DVD - continued

Editing Titles in the Title Menu - continued



Edit Title Name

- 1 Press to highlight a title that is intended to be edited in the Title Menu.
- 2 Press **Edit**, an edit menu appears.
- 3 Press to highlight **Edit Title Name** and press .
- 4 A keyboard menu appears. To enter a new title name into the display row on the top, press to select letters and press to enter.
- 5 Select **Done** and press to leave the keyboard menu after keyboarding the new title. The updated title will be shown on the title menu.



Upload to HDD

- 1 Press to highlight a title that is intended to be edited in the Title Menu.
- 2 Press **Edit**, an edit menu appears.
- 3 Press to highlight **Upload to HDD** and press .
- 4 A Dubbing box appears on the right bottom corner and shows the status of the dubbing process.
- 5 To review the dubbing title after uploading to HDD, press **HDD/DVD** to set the recorder to HDD mode.
- 6 Press **Play** to display the title menu. Press to highlight the title. Press **Play** again to leave the menu.



Editing Titles During Playback

Insert Chapter

- 1 Press to highlight a title and press **Play**.
- 2 Press **Edit** during playback, an edit menu appears.
- 3 Press to highlight **Insert Chapter**. As the title is played to the preferred point for inserting a new chapter, press . A new chapter is created.



Note:

- Chapters are markers inside a title. The playback can be skipped from chapter to chapter.
- To check the information about the chapters of a title during playback, press **Info** during playback (please refer to *Chapter 2-1 Operations with HDD, DVD and VCD: Displaying the Information of the Scene on page 38*).



Delete Chapter

- 1 Press to highlight a title and press **Play**.
- 2 Press **Edit** during playback, an edit menu appears.
- 3 Press to highlight **Delete Chapter**. As the title is played to the chapter intended to be removed, press .



Note:

- The program section of the deleted chapter will be automatically merged into the previous chapter.
- To check the information about the chapters of a title during playback, press **Info** during playback (please refer to *Chapter 2-1 Operations with HDD, DVD and VCD: Displaying the Information of the Scene on page 38*).



Hide Chapter

- 1 Press to highlight a title and press **Play**.
- 2 Press **Edit** during playback, an edit menu appears.
- 3 Press to highlight **Hide Chapter**. As the title is played to the chapter intended to be hidden, press .





4-2 Editing DVD - continued

Editing Titles During Playback - continued



Note:

- After proceeding **Hide Chapter**, those hidden chapters will not be shown up during the normal playback.
- To play those hidden chapters, press **Goto** and refer to **Chapter 2-1 Operations with HDD, DVD and VCD: Selecting Scenes by Chapter Number** on page 37 for operation.
- To play the whole title included the hidden chapters, please refer to **Chapter 4-2 Editing DVD: Editing Titles in the Title Menu - Play Full Title** on page 63.

4



Show Chapter

- 1 Press to highlight a title that is intended to be edited in the Title Menu.
- 2 Press **Edit**, an edit menu appears. Press to highlight **Play Full Title** and press . The title starts playback.
- 3 Press **Edit** during playback, an edit menu appears.
- 4 Press to highlight **Show Chapter**. As the title is played to the hidden chapter that is intended to be shown again, press .

1



Change Thumbnail

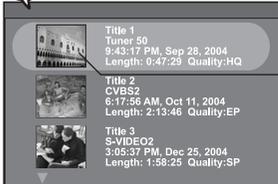
- 1 Press to highlight a title and press **Play**.
- 2 Press **Edit** during playback, an edit menu appears. Press to highlight **Change Thumbnail** and then when the preferred image for the new thumbnail appears on the screen.
- 3 Press **Menu** or **Title** to return to the title menu. The new thumbnail will be shown on the screen.



Note:

- After pressing **Menu** or **Title** to go back to the title menu, a **Change Thumbnail** box appears. It might take 15~30 seconds before the new index picture appears on the title menu.

3



Thumbnail is changed

5-1 Troubleshooting



Before requesting service for the HDD+DVD Recorder, check the chart below for a possible cause of the problem you are experiencing. Some simple checkups or a minor adjustment on your part may eliminate the problem and restore proper operation.

SYMPTOM (COMMON)	REMEDY
No power.	<ul style="list-style-type: none">• Insert the power plug securely into the power outlet.• Check if the ON/OFF button on the front of the recorder is set to on.• Check if no power at the AC outlet by plugging in another appliance for a test.
The recorder does not start playback when PLAY is pressed.	<ul style="list-style-type: none">• Condensation has formed: wait about 1 to 2 hours to allow the recorder to dry out.• The recorder cannot play discs other than DVDs and audio CDs.• Check if the disc is defective by trying another disc.• Check the region (local) code.
The recorder starts playback but stops immediately.	<ul style="list-style-type: none">• The disc may be dirty and may require cleaning.• Ensure that the disc is installed with the label side up.
No picture.	<ul style="list-style-type: none">• Ensure that the equipment is connected properly.• Ensure that the input setting for the TV is "Video".• Check if the TV is on.• Select the same channel and source on the TV as on the recorder.
No sound.	<ul style="list-style-type: none">• Ensure that the equipment is connected properly.• If using a HiFi amplifier, try another sound source.• Check the Audio Output Setting menu to make sure that Analog Output is selected.
Distorted sound.	<ul style="list-style-type: none">• Ensure that the input settings for the TV and stereo system are proper.• No sound is heard during still picture (pause) or slow-motion playback.
No audio at Digital Output.	<ul style="list-style-type: none">• Check the digital connections.• Check the settings menu to make sure that the digital output is set to on.• Check if the audio format of the selected audio language matches your receiver capabilities.
Distorted picture.	<ul style="list-style-type: none">• Check the disc for fingerprints and clean with a soft cloth, wiping from center to edge.• Sometimes a small amount of picture distortion may appear. This is not a malfunction.
Completely distorted picture or no color in picture.	<ul style="list-style-type: none">• The disc format is not according to the TV-set used (PAL/NTSC).
Picture is distorted during rapid advance or rapid reverse.	<ul style="list-style-type: none">• The picture will be somewhat distorted at times: this is normal.
No rapid advance (or rapid reverse) playback.	<ul style="list-style-type: none">• Some discs may have sections which prohibit rapid advance (or rapid reverse).
No 4:3 (16:9) picture.	<ul style="list-style-type: none">• Choose the correct setup "Aspect Ratio" item which matches the TV set used.
No operations perform with the remote control.	<ul style="list-style-type: none">• Check the batteries are installed with the correct polarities (+ and -).• The batteries are depleted: replace them with new ones.• Point the remote control unit at the remote control signal sensor and operate.• Operate the remote control unit at a distance of not more than 7 meters from the remote control signal sensor.• Remove the obstacles between the remote control unit and remote control signal sensor.





5-1 Troubleshooting - continued

SYMPTOM (COMMON)	REMEDY
PLAY does not start playback even when title is selected.	<ul style="list-style-type: none">• This may be a result of the parental lock function that has been set. Confirm the "PARENTAL" setup.
Audio soundtrack and/or subtitle language is not the one selected at the initial settings.	<ul style="list-style-type: none">• If the audio soundtrack and/or subtitle language does not exist on the disc, the language selected at the initial settings will not be seen/heard.
No subtitles.	<ul style="list-style-type: none">• Subtitles appear only with discs that contain them.• Subtitles are hidden from the TV screen. Press SUBTITLE to display the subtitles.
Alternative audio soundtrack (or subtitle) language available.	<ul style="list-style-type: none">• An alternative language can not be selected may result of no more than one languages cannot be selected.
Angle cannot change.	<ul style="list-style-type: none">• This function depends on software availability. Even if a disc has a number from angles recorded, these angles may be recorded for specific scenes only.
No sound when connecting to 5.1 Channel speaker	<ul style="list-style-type: none">• Check if the disc supports 5.1 Channel.• Check if the speaker is properly connected.• Check if the audio output setting is right.
No key operation (by the DVD Recorder and/or the remote control) is effective.	<ul style="list-style-type: none">• Turn the unit off and then back to on. Alternatively, turn off the unit, disconnect the AC power cord and then re-connect it. (The recorder may not be operating properly due to lightning, static electricity or some other external factor.)
No picture and sound (for recorded disc)	<ul style="list-style-type: none">• Check if the DVD Recorder and external equipment are properly connected.• Check if the schedule recording setting is correct.• Check if using the correct recordable disc. (DVD+RW/DVD+R)• Check if power set to stand-by mode while using schedule recording.• Check if the disc has been closed. (only for DVD+R disc)
Distorted picture or no image	<ul style="list-style-type: none">• Check if the TV system setting is correct.• Check If you set output format in "Progressive Scan", then you have to set "Component" in the video output setting. The actual output format must match to the output format setting.
OSD setting doesn't be executed	<ul style="list-style-type: none">• Some setting must be stored by pressing left button. Re-check it.
Wrong time	<ul style="list-style-type: none">• Reset time.



Handling Precautions

- Hold the disc by the edges so the surface will not be soiled with fingerprints. (A)
Fingerprints, dirt and scratches can cause skipping and distortion.
- Do not write on the label side with a ball-point pen or other writing utensils.
- Do not use record cleaning sprays, benzene, thinner, static electricity prevention liquids or any other solvent.
- Be careful not to drop or bend the disc.
- Do not install more than 1 disc on the disc tray.
- Do not try to close the disc tray when the disc is not installed properly. (B)
- Be sure to store the disc in its exclusive case when not in use.

If the surface is soiled (C)

Wipe gently with a soft, damp (water only) cloth.

When wiping discs, always move the cloth from the center hole toward the outer edge.

(If you wipe the discs using a circular motion, circular scratches are likely to occur, which will cause noise.)

If the disc is brought from a cold to a warm environment, moisture may form on the disc

Wipe the moisture off with a soft, dry, lint-free cloth before using the disc.

Improper disc storage

You can damage discs if you store them in the following places:

- Areas exposed to direct sunlight
- Humid or dusty areas
- Areas directly exposed to a heat outlet or heating appliance

Playable disc format

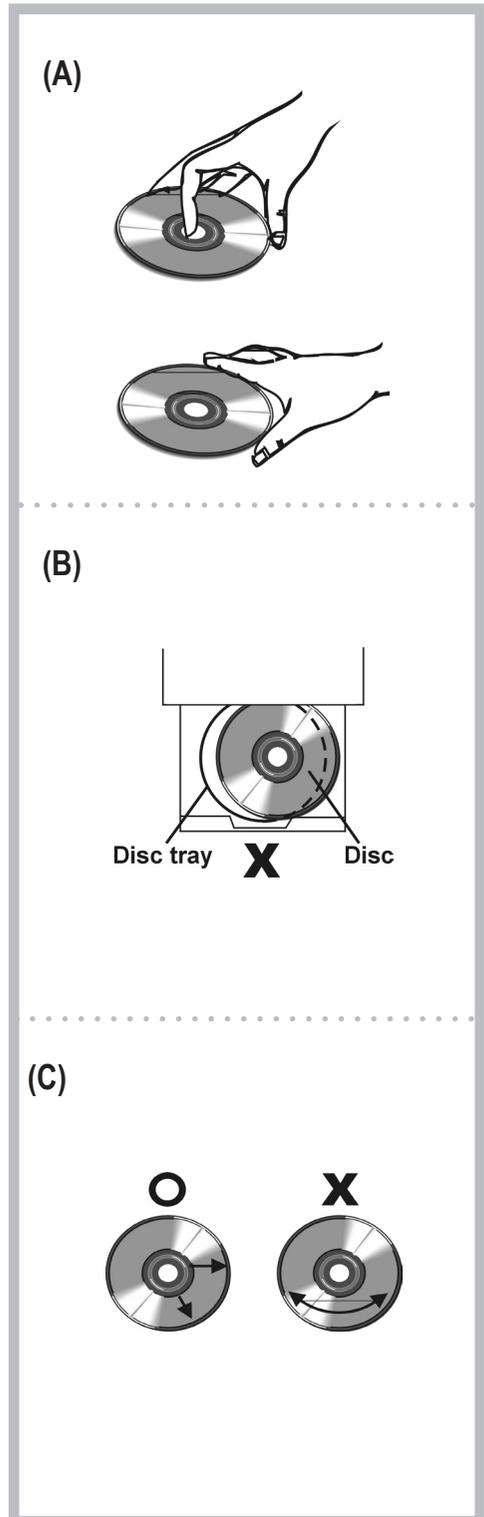
- HDD, DVD, DVD+RW, DVD+R, DVD-RW, DVD-R, CD-DA, Mixed CD-DA, JPEG file disc and Kodak Picture Disc.

Recordable disc format

- HDD
- DVD+RW (Application Program)
- DVD+R

Maintenance

- Be sure to turn the unit off and disconnect the AC power cord before maintaining the unit.
- Wipe this unit with a dry soft cloth.
If the surfaces are extremely dirty, wipe clean with a cloth which has been dipped in a weak soap-and-water solution and wrung out thoroughly, and then wipe again with a dry cloth.
- Never use alcohol, benzene, thinner, cleaning fluid or other chemicals. And do not use compressed air to remove dust.



HDD+DVD
RECORDER