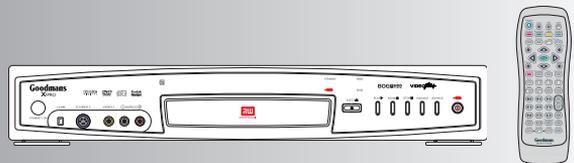


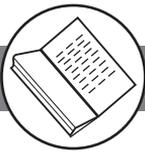
Goodmans



GHDD177DVDR

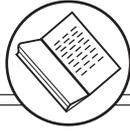
Digital Versatile Disc/Hard Disk Recorder
with Remote Control

User Guide



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1 Recording Functions



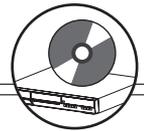
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2 HDD and DVD

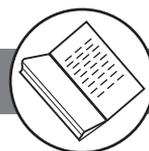


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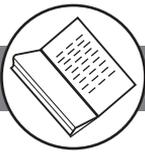
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Important Safeguards

For your own safety read following instructions carefully before attempting to connect this recorder to the mains.

Mains Supply: 230 ~ 50Hz - AC only

This unit is designed to operate on a **230V~50Hz** supply only. Connecting it to other power sources may damage it. Ensure that the supply corresponds to the information on the rating label at the rear of the recorder.

This component system may be fitted with a non-rewireable plug. If it is necessary to change the fuse in a non-rewireable plug the fuse cover must be refitted. If the fuse cover becomes lost or damaged, the plug must not be used until a replacement, available from the manufacturer, is obtained. It is important that the colour of the replacement fuse cover corresponds with the colour marking on the base of the plug.

If the plug needs to be changed because it is not suitable for your socket, or becomes damaged, it should be cut off and an appropriate plug fitted following the wiring instructions below. The plug must then be disposed of safely, as insertion into a 13A socket is likely to cause an electrical hazard.

IMPORTANT

The wires in the mains plug should be connected as shown in the diagram.

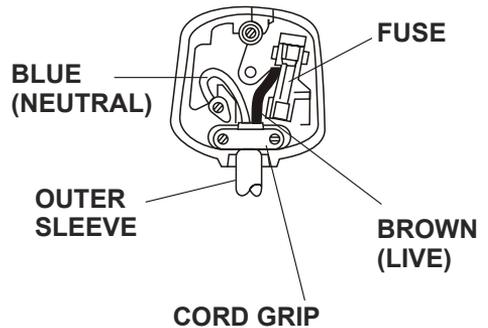
The colours of the wires in the mains lead of the unit may not correspond with the coloured markings identifying the terminals in your plug. Connect them as follows:-

The wire which is coloured blue must be connected to the terminal which is marked with the letter 'N' or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red.

There should be no connection to the earth terminal of your plug.

If a 13 Amp (BS 1363) Plug is used, a 3 Amp Fuse must be fitted, or if any other type of Plug is used a 3 Amp or 5 Amp Fuse must be fitted, either in the Plug or Adaptor, or on the Distribution Board.



This symbol means that this unit is double insulated. An earth connection is not required.

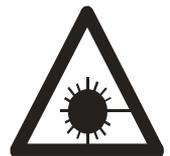
DANGER

LASER SAFETY

CAUTION : USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

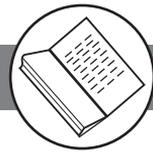
INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED. AVOID DIRECT EXPOSURE TO BEAM

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service



CAUTION

To prevent electric shock, disconnect from the mains before removing cover. No user serviceable parts inside. Refer servicing to qualified service personnel.



To Achieve the utmost in enjoyment and performance, please read this manually carefully before attempting to operate the unit in order to become familiar with its features, and assure you years of faithful, trouble free performance and listening pleasure.

Important Notes

- Keep instructions the safety and operating instructions should be retained for future reference.
- Avoid installing the unit in locations described below:
 - Exposed to direct sunlight or close to heat radiating appliances such as electric heaters.
 - On top of other stereo equipment that radiate too much heat.
 - Places lacking ventilation or dusty places.
 - Places subject to constant vibration.
 - Humid or moist places.
- Make sure not to obstruct the ventilation opening.
- Operate turning controls and switches as instructed in the manual.
- Before turning on the power for the first time, make certain the power cord is properly installed.
- Store your DVDs in a cool area to avoid damage from heat.

For safety reasons, do not remove any covers or attempt to gain access to the inside of the product. Refer any servicing to qualified personal.

Do not attempt to remove any screws or open the casing of the unit; there are no user serviceable parts inside, refer all servicing to qualified service personal.



CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK), NO USER SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONAL.

DANGEROUS VOLTAGE



Conductor dangerous voltage, that may be of sufficient magnitude to constitute a risk of electric shock to persons is present within this product's enclosure.

ATTENTION

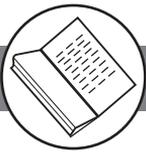


The owner's manual contains important operating and maintenance instructions, for your safety, it is necessary to refer to the manual.

WARNING : TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO DRIPPING OR SPLASHING.

Note:

This unit will become warm when used for a long period of time. This is normal and does not indicate a problem with the unit.



Important Notes

Hearing is very important to you and to us so please take care when operating this equipment. It is strongly recommended that you follow the listed guidelines in order to prevent possible damage or loss of hearing.

ESTABLISH A SAFE SOUND LEVEL

- Over time your hearing will adapt to continuous loud sounds and will give the impression that the volume has in fact been reduced. What seems normal to you may in fact that be harmful. To guard against this **BEFORE YOUR HEARING ADAPTS** set the volume at a low level.
- Slowly increase the level until you can hear comfortable and clearly and without distortion
- Damage to your hearing is accumulative and is irreversible.
- Any ringing or discomfort in the ears indicates that the volume is maybe too loud.

Once your have established a comfortable listening level, **DO NOT INCREASE THE SOUND LEVEL FURTHER.**

The following list of typical sound levels may assist you in recognising just how loud you have set the volume level.

DECIBLE
Level(dB)

Example

30dB	Quiet library, soft whisper.
40dB	Living room, fridge freezer bedroom away from traffic.
50dB	Normal conversation, quiet office, light traffic.
60dB	Electric sewing machine.
70dB	Vacuum cleaner, hair dryer, noisy restaurant

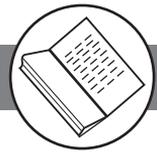
THE FOLLOWING NOISE CAN BE HARMFUL UNDER CONSTANT EXPOSURE

80dB	Average city traffic, alarm clock buzzer at 2 feet, food mixer.
90dB	Motorcycle heavy goods vehicle, petrol lawn mower.
100dB	Pneumatic drill, chair saw, garbage truck, discotheque/night-club.
120dB	Rock band concert, thunderclap fast train passing by.

PERMANENT LOSS OF HEARING

140dB	THRESHOLD OF PAIN GUNSHOT 2 feet away, Jet plane taking off.
-------	--

Important Safety Instructions



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)



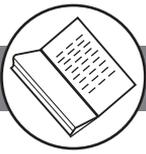
WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

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.



This symbol on the product or in the instructions means that your electrical and electronic equipment should be disposed at the end of its life separately from your household waste. There are separate collection systems for recycling in the EU.

For more information, please contact the local authority or your retailer where you purchased the product.



Precautions

Please read these precautions before operating this 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 35°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 this 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.

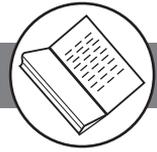
■ Condensation

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 this 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.



Thank you for purchasing this 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. Through this HDD/DVD Recorder, you can watch DVDs, play audio CDs, or watch TV shows through external devices. What's more, you can record programs to HDD and backup your archives to a DVD+RW disc.

This HDD/DVD Recorder supports the following Media Formats:

--Playable format

- DVD, DVD+R, DVD+RW, DVD-R, DVD-RW, VCD, SVCD, CD-DA, Mixed CD-DA, MP3, WMA Audio CD, JPEG file disc and Kodak Picture disc.

--Recordable disc format

- DVD+RW (Application Programme)
- DVD+R

How to Proceed in This Manual

Using the DVD recorder and its features may be confusing at first. Please follow the order below to help you to set up your DVD recorder.

1 Check the contents of the package.

Refer to the section of "**PACKAGE CONTENTS**" in the *manual* that was included with this unit. You should have the items listed in the section.

2 Get acquainted with the recorder.

Refer to the sections of "**Parts and Controls**" in the manual. It will let you get familiar with the parts and buttons on the main unit and remote control as you proceed throughout the manual.

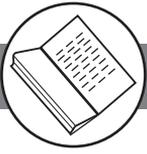
3 Make the necessary connections.

Refer to the section of "**CONNECTIONS**" in the manual. It will guide you how to make the connections with external audio and video device.

4 Set the necessary settings from the initial setup menu.

Before you operate the DVD recorder, refer to the section of **Chapter 4:Initial Settings** in

(To continue to the next page)



About This Manual-continued

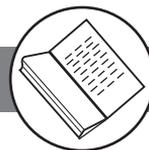
the manual. It will provide on-screen menus with different options to let you select the proper settings corresponding to the system.

5 Record a disc.

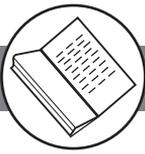
You can record your favourite shows from local cable TV, or music and picture from an external audio and video device to HDD and backup them onto a DVD+R or DVD+RW media. Refer to section of **Chapter 1-2 Recording** in the manual.

6 Play back a disc.

After making all the connections and menu setups, you can start to play DVD, DVD+R, DVD+RW, DVD-R, DVD-RW, JPEG photo CD, Video CD, MP3, or CD discs with the recorder. Refer to section of **Chapter 2-1 : HDD and DVD Operations** , or **Chapter 3-1 : Audio CD Playback**.



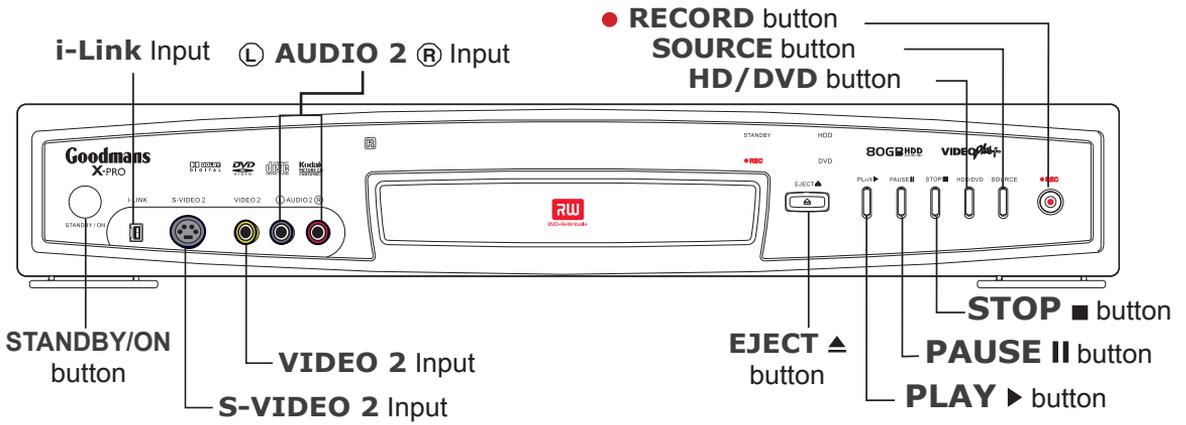
Included in this package should be:
GHDD177DVDR Recorder
Remote control
2 x AAA batteries for the remote control
RCA AV line cable
RF coaxial cable
Scart to scart cable
Component video cable
Blank DVD+RW disc
User guide
Quick reference



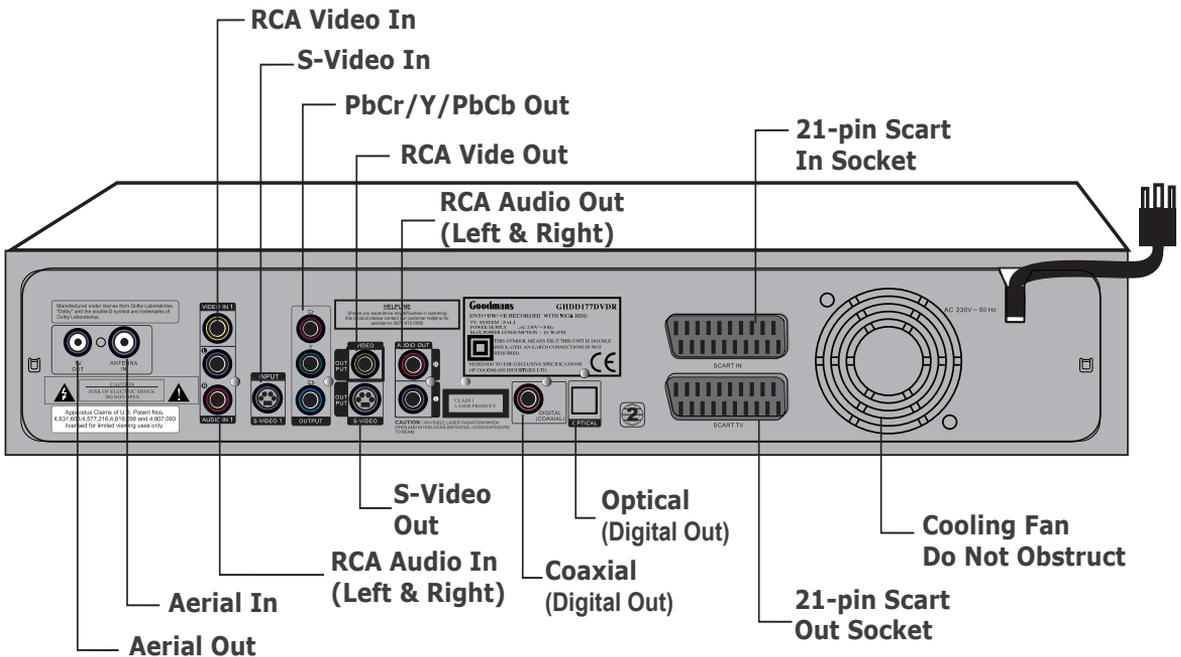
Parts and Controls

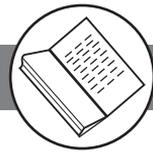
Front View

Getting Started

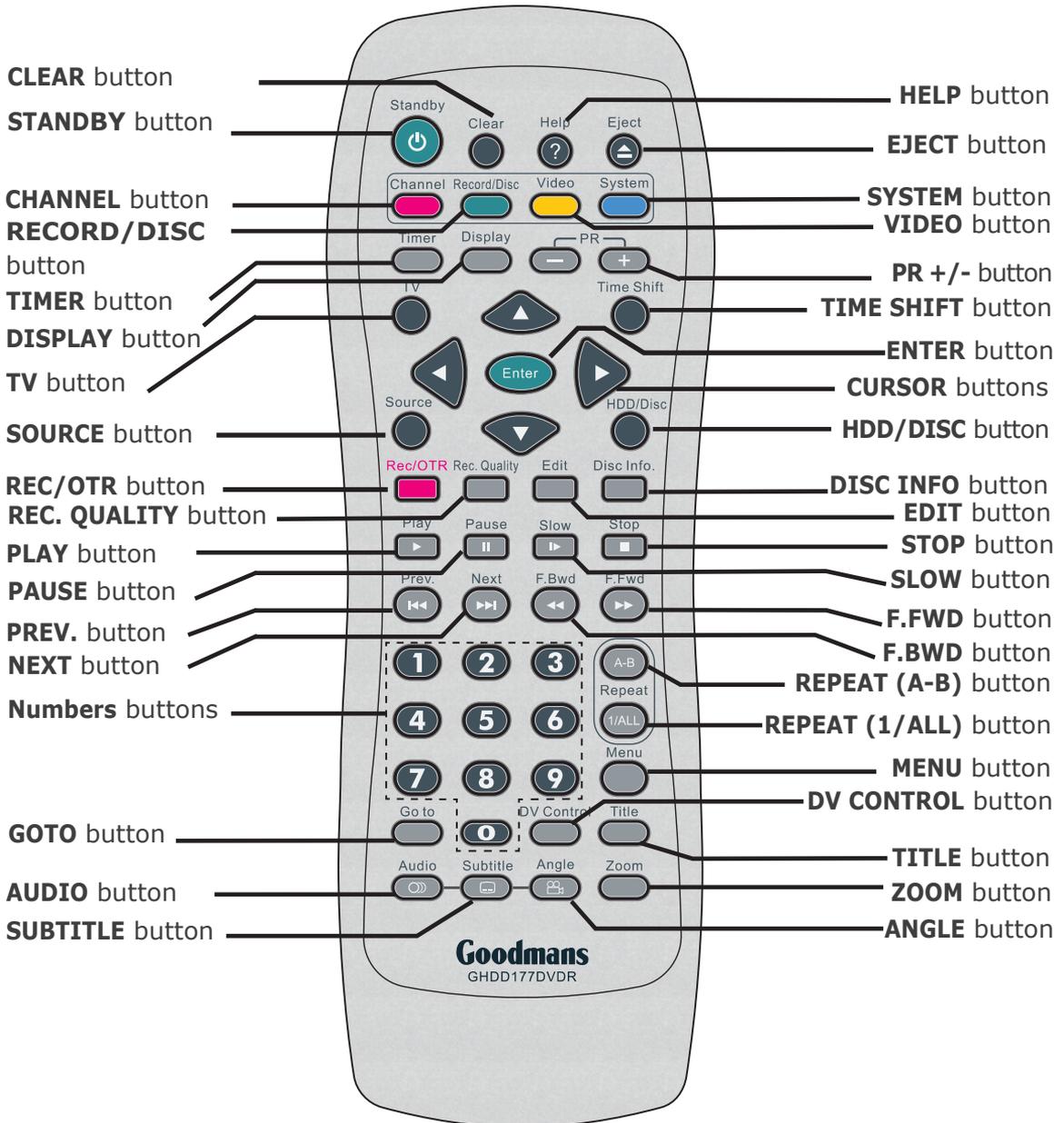


Back View



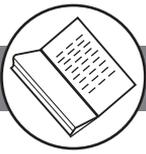


Remote Control



NOTE

If you encounter some difficulties while operating this recorder, press  (**Help**) button to obtain some useful tips, such as DISC/MEDIA INFO, IMPORTANT NOTES, USEFUL BUTTONS, and TROUBLESHOOTING to guide you through for using this recorder.

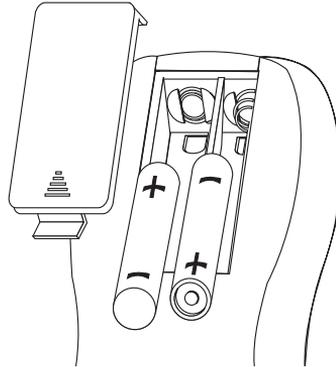


The Remote Control

Installing the batteries

Locate the remote control, and remove the battery cover.
Insert two AAA size batteries into the compartment.

Note: Refer to the diagram inside the battery compartment for correct installation of batteries.



We recommend the use of Alkaline batteries.

Using The Remote Control

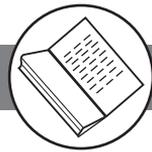
To use the remote control, point it at the front of the DVD player, towards the sensor situated to the right of the DVD drawer.

The remote control has a range of up to 6 metres from the DVD player and at an angle of up to 60 degrees.

Do not block the path of the beam from the remote control to the DVD player.

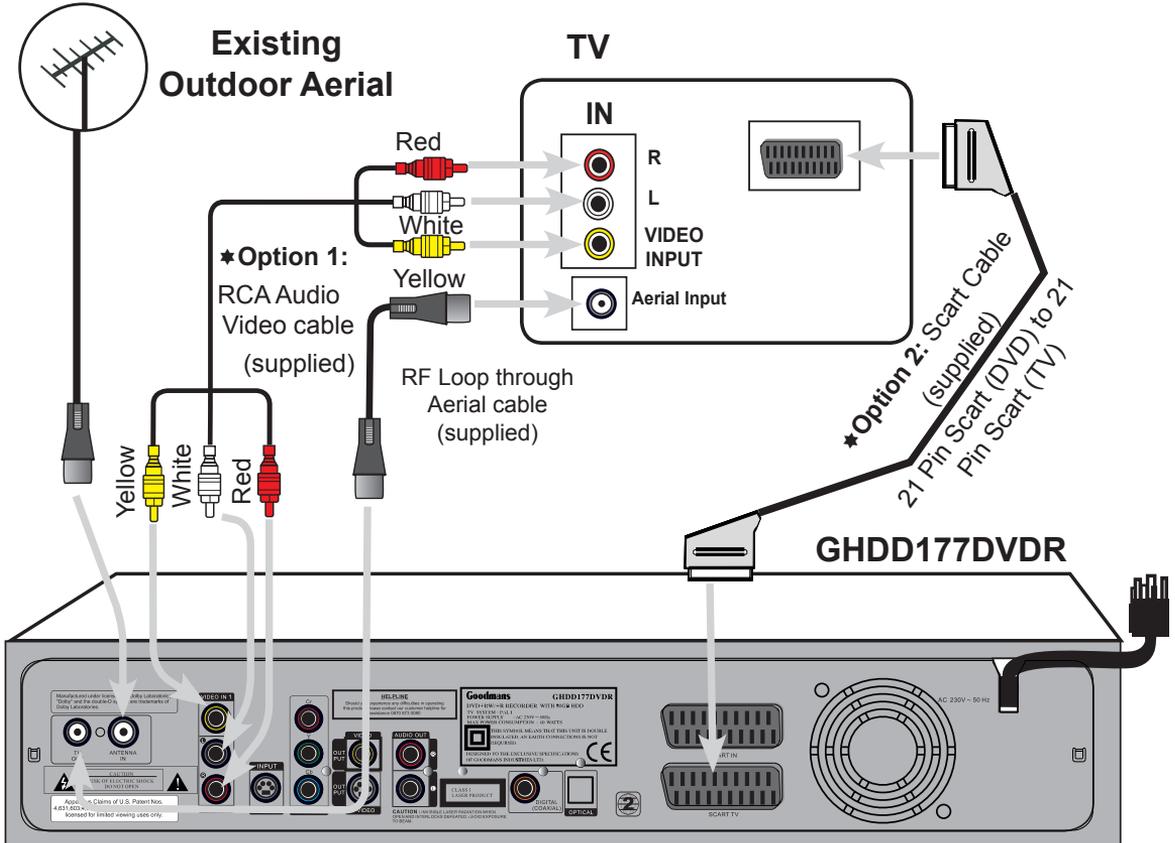
Note: Sunlight or very bright light will reduce the remote control sensitivity.

Connecting External Equipment

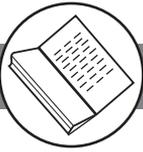


- Turn the power off to your TV / Recorder before making any connections.

Connecting to a TV



***Note:** Only use one of the above mentioned options 1 or 2 to connect the recorder to your TV otherwise it will cause picture interference.

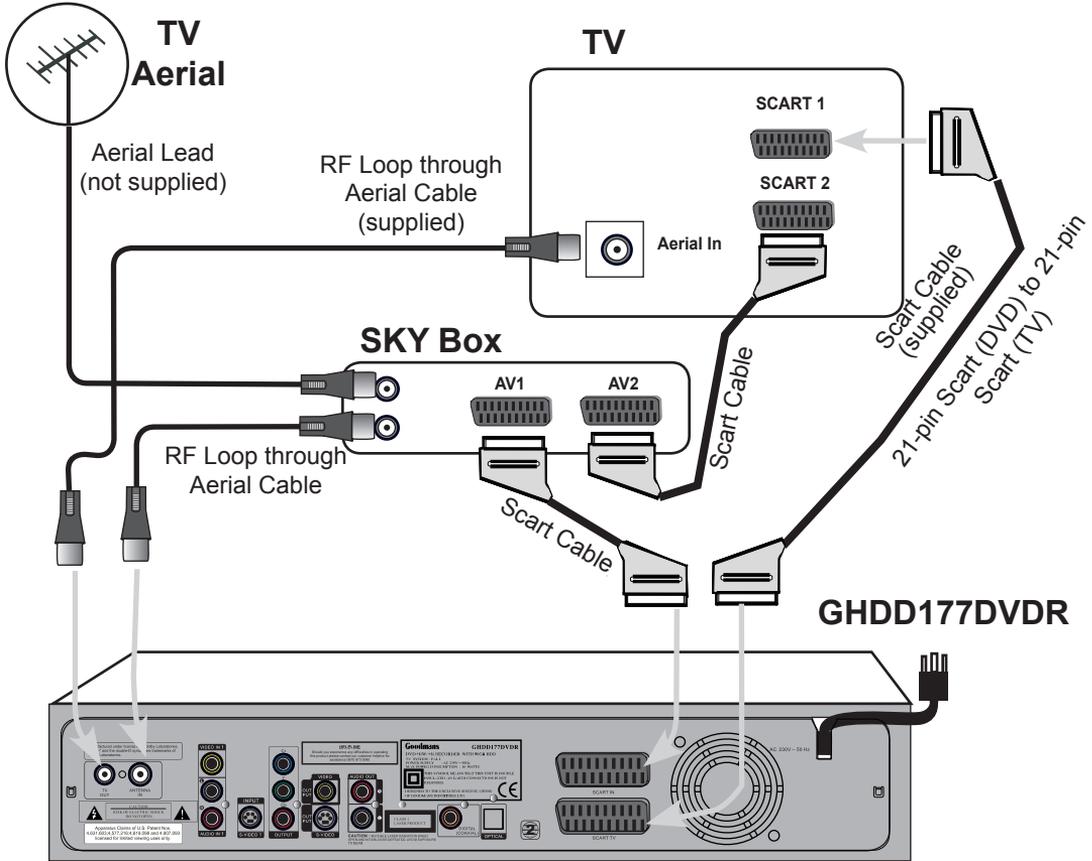


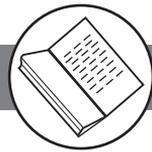
Connecting External Equipment

Connecting to a SKY Box

Turn the power off to your TV / Recorder before making any connections.

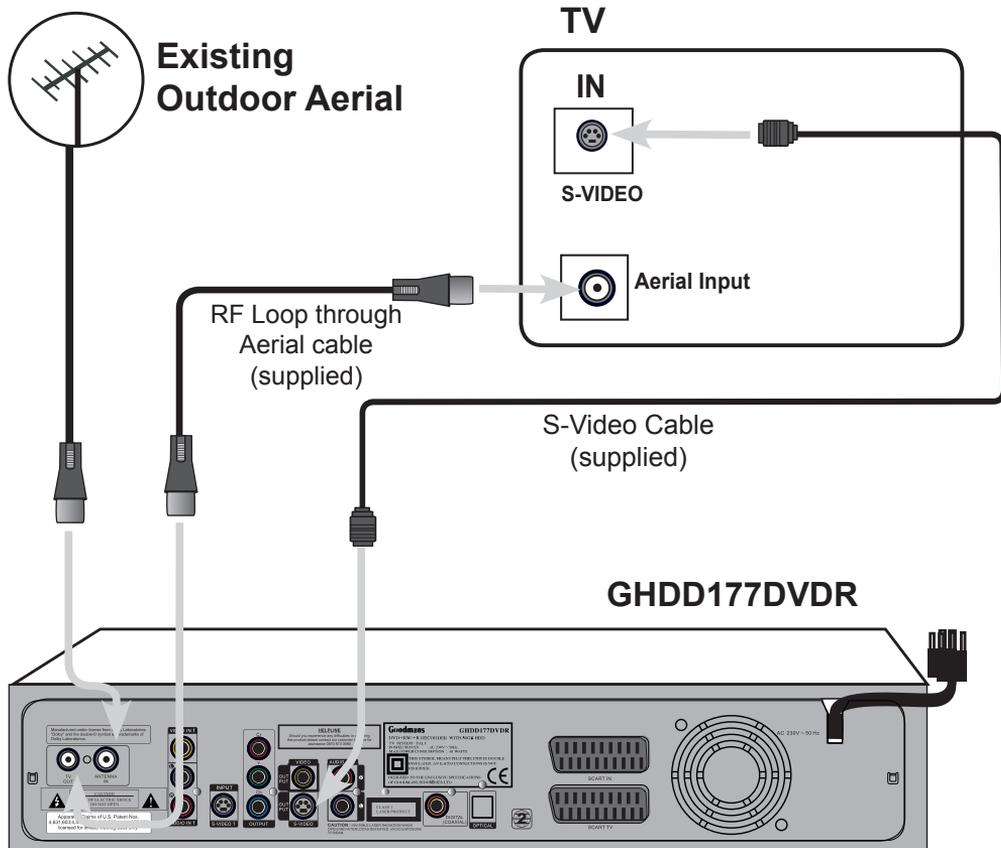
Getting Started

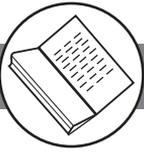




Connecting to a TV Using S-Video Cable

If your TV has a S-Video or S-VHS (super video) Input, connect this DVD Recorder's S-Video socket to your TV's S-Video In socket, this will provide a better viewing result on TV. Make sure to set Video Output Settings to S-Video from VIDEO Setup Screen.



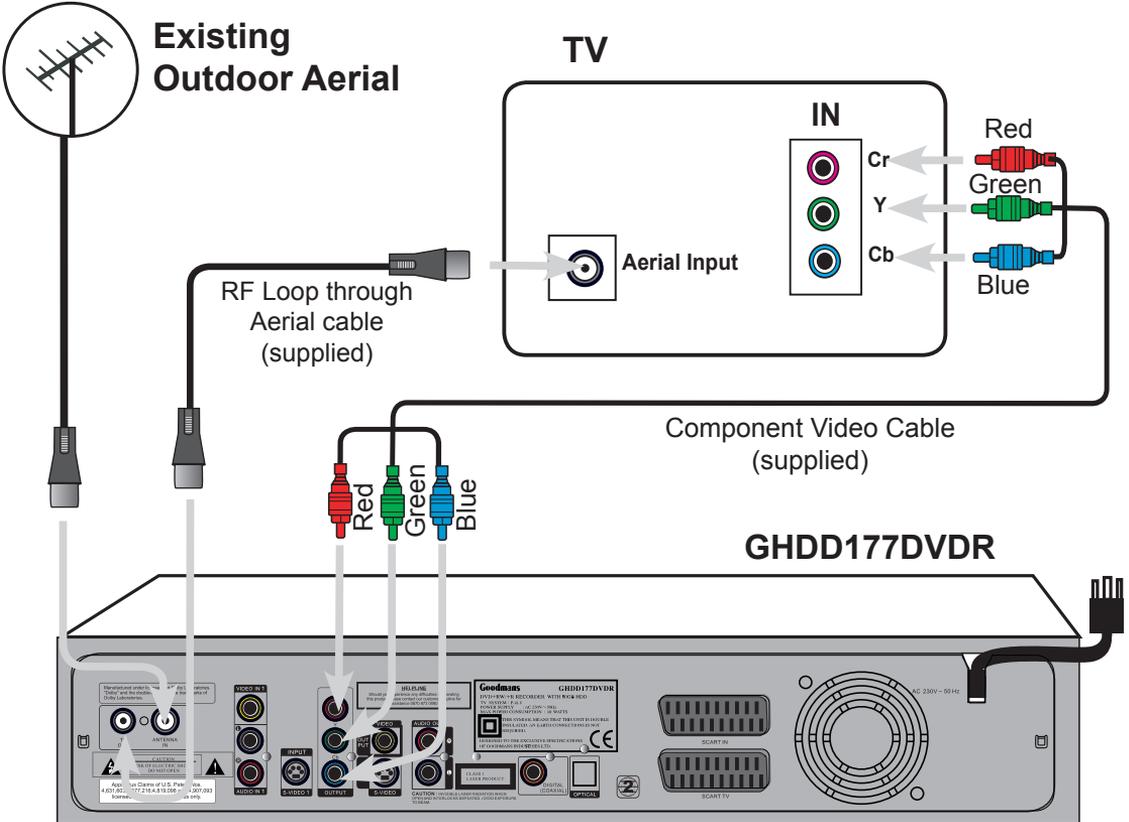


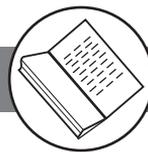
Connecting External Equipment

Connecting to a TV Using Component Video Cable

If your TV has Component Video input, connect this DVD Recorder's Cr Y Cb sockets to your TV's Cr Y Cb In sockets, this will obtain the best viewing result. Make sure to set Video Output Settings to RCA Component from VIDEO Setup Screen.

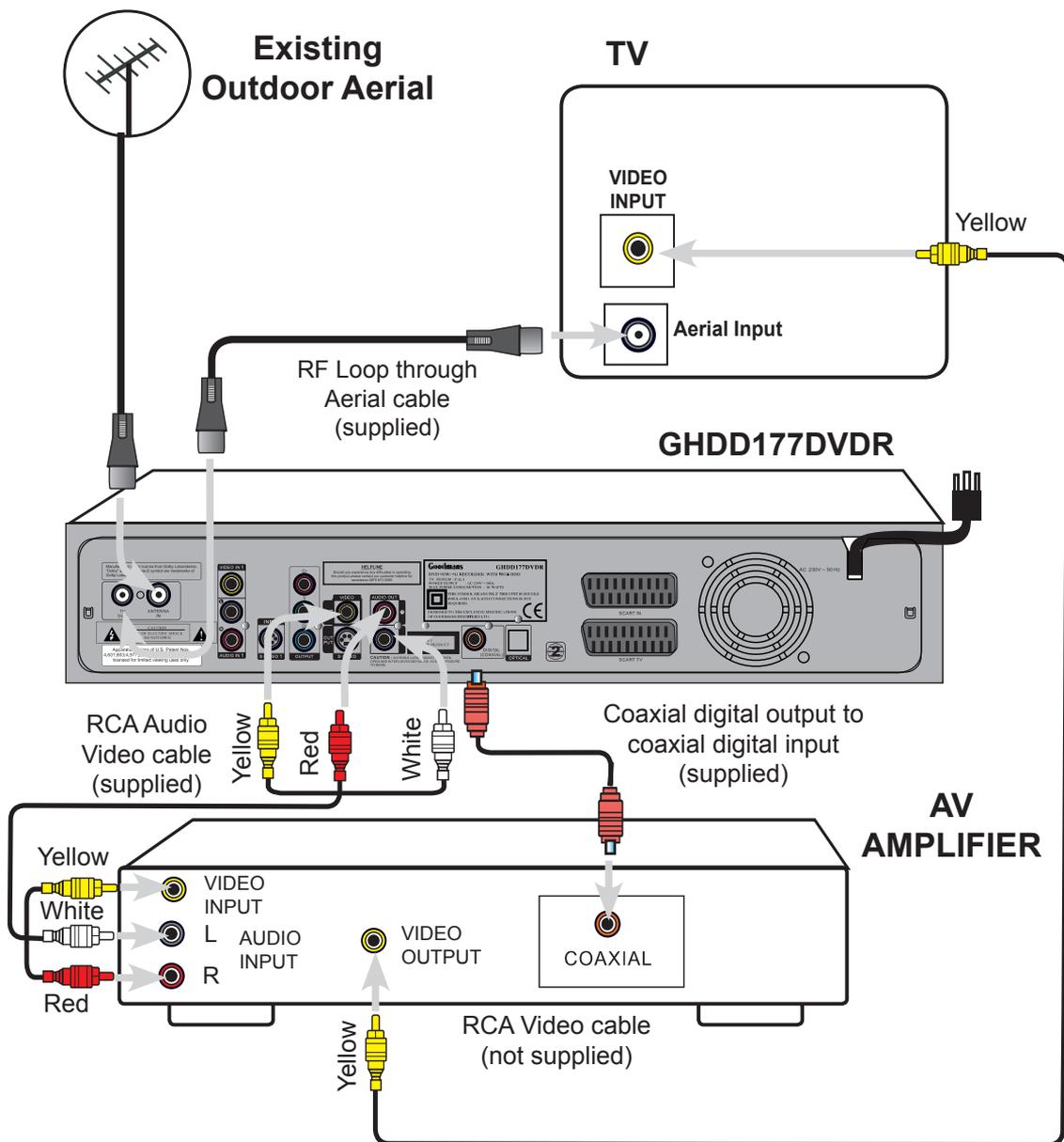
Getting Started

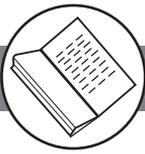




Connecting to an AV Amplifier

When you're playing a DVD with digital surround sound tracks, you can either connect this player to a compatible digital decoder or an AV amplifier (for models that support built-in decoding) if the disc was recorded in Dolby Digital format.

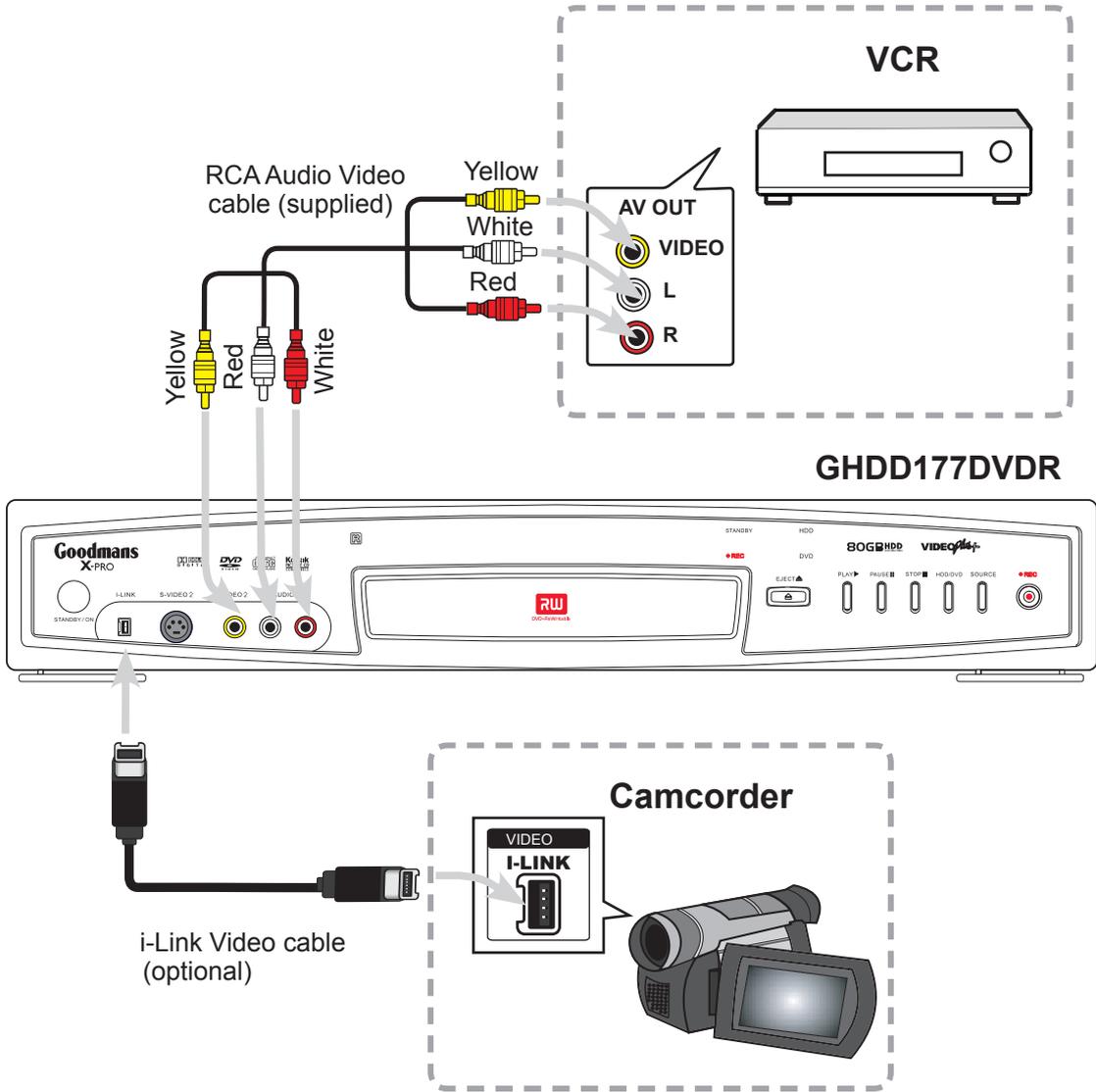




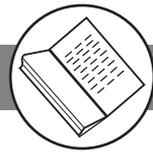
Connecting External Equipment

Connecting to Other AV Equipment

Getting Started



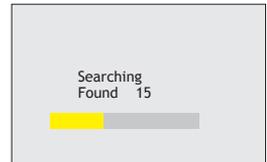
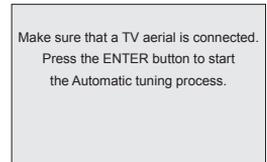
- ★ You can connect to a VCR or Camcorder, or other AV device using RCA Audio Video cable.
- ★ Alternatively, you can may connect to a Camcorder via an i-Link (IEEE 1394) cable.



HDD Quick Recording

If you are operating this recorder for the first time, please establish proper connection with TV and aerial (Refer to “Connecting External Equipment” section), then follow the on-screen instruction to make the first initial setting. For more details on recording, refer to “Chapter 1 : Recording Functions”. For more details on advanced initial setting, refer to “Chapter 5 : Initial Settings”.

- 1 Turn on your TV.
- 2 Press **STANDBY/ON** button on this HDD+DVD Recorder or **Standby** on your remote control.
 - An on-screen country setup dialog box appears on the screen.
- 3 Use / buttons to select a country and press **Enter**.
 - Your DVD Recorder will automatically start tuning in all the receivable programmes to your TV. This process may take several minutes to be done.



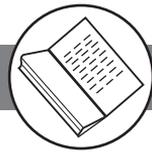
To Record from External Sources

- 4 Press **HDD/Disc** on your remote control to select HDD mode.
- 5 Press **Source** on the remote control repeatedly to toggle to your designated A/V input source.
 - Note: To record from your videotape player, connect it to its S-VIDEO1 input connector and press **Source** to select S-VIDEO1.

To Record TV Program

- 6 Press **TV** on the remote control to switch to TV mode.
 - Note: To view local TV programmes through this recorder, proceed by performing Auto Tuning System first. Please refer to Chapter 5-1: Auto Tuning System Setting on page 57 for details.
- 7 Use **PR +/-** or **Number Button(s)** to select a preferred programme for recording.
- 8 Press **Record/OTR** to start recording the selected programme.
- 9 Press **Stop** to stop recording.

Quick Playback



HDD Playback

- 1 Press  **Standby** to turn on the recorder.
- 2 Press  **HDD/Disc** to switch to HDD mode.
- 3 Press  **Play**, a title menu appears on the screen listing all of the recorded programmes.
- 4 Use  /  on the remote control to highlight a preferred title. The selected title will be played behind the title menu immediately as being highlighted.
- 5 Press  **Enter** to select titles from the list that you wish to play.
- 6 Press  **Play** to exit the menu and start playing the selected title(s).
- 7 Press  **Menu** or  **Title** to recall the title menu.
- 8 Press  **Stop** to stop playback.



Num	Date	Time	Length	QA	Program
1	05/10/04	06:09:52	01:34:29	SP	SCART
2	12/10/04	11:32:16	00:58:37	EP	CVBS1
3	20/11/04	09:19:20	01:12:48	HQ	SCART
4	23/11/04	22:19:45	02:37:54	HQ	COMP1
5	01/12/04	13:46:57	00:51:35	SP	CVBS1
6	25/12/04	18:24:18	00:47:26	SP	COMP1

DVD Playback

- 1 Press  **Standby** to turn on the recorder.
- 2 Press  **HDD/Disc** to switch to DVD mode.
- 3 Press  **Eject** to open the disc tray.
- 4 Place a playable disc onto the tray. Press  **Eject** to close the disc tray.
- 5 Press  **Play**, a title menu appears on the screen listing 3 recorded programmes per page. Use  /  to highlight a program title and to scroll to next page.
- 6 Press  **Enter** or  **Play** to start playback the selected title.
- 7 Press  **Menu** or  **Title** to return to title menu.
- 8 Press  **Stop** to stop playback.



	Title 1 Prog02 2:36:11 PM, Apr 9, 2004 Length: 0:30:42 Quality:HQ
	Title 2 S-VIDEO2 8:20:49 PM, Jan 10, 2005 Length: 0:20:18 Quality:SP
	Title 3 SCART 11:22:08 PM, Apr 15, 2005 Length: 0:12:33 Quality:EP



1-1 Before Recording

This chapter mainly show you how to record programmes from external sources using the remote control. Some of the functions can also be done through the OSD Settings. Please refer to [Chapter 5-2: RECORD/DISC Setup](#) for details.

- Before Timer recording, check the date and time setting again to make sure the information of the date and time is correct. Please refer to [Chapter 5-5 Timer Setup](#) for more details.
- Make sure this Recorder is connected to external equipment correctly. Please refer to “[Connecting External Equipment](#)” section for more details.
- This Recorder is only compatible with DVD+R or DVD+RW discs for recording.

POOR RECORDINGS: To prevent ruined recordings always check on the following:

1. Always purchase good quality / named branded discs's. Some cheap / unbranded discs may give rise to skipped / portions of the recordings to be missed.
2. It is essential that the discs are kept clean from finger prints and scratches. Always put the disc back into its holder when not in use.
3. A feature of this DVD recorder is that it will carry on recording over scratches / blemishes or badly made disc's. On play back of the recording this will show as parts of the recording being skipped. This is NOT A FAULT OF THE PLAYER but a disc problem. Replace the disc with a new one if this occurs.

Record Quality Setting

1 Press Rec. Quality button on the remote control. A Record Quality dialog box appears on the screen.

2 Press Rec. Quality button repeatedly to cycle through the preferred record quality.



HQ (High Quality): to record about one hour

SP (Standard Play): to record about two hours

LP (Long Play): to record about three hours

EP (Extended Play): to record about four hours

SLP (Standard Long Play): to record about six hours



For details on how to do Record Quality OSD Setting, please refer to [Chapter 5-2: RECORD/DISC Setup](#).

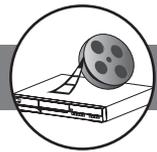
Erase/Format Setting

Erasing/formatting HDD or DVDs can only be done through the OSD Setting. Please refer to [Chapter 5-2: RECORD/DISC Setup](#) for details.

Finalize Setting

- Before a non-ReWritable DVD can be played on another DVD player it has to be finalized. Re-Writable DVDs do not have to be finalised in order to play on other DVD players.
- DVD Finalization can be only done through the OSD Setting. Please refer to [Chapter 5-2: RECORD/DISC Setup](#) for details.

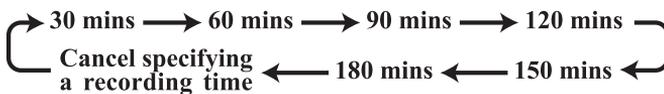
1-2 Recording



Recording TV Programmes to HDD

- 1 Connect the recorder to the TV set.
- 2 Turn on  **Standby** of the recorder and the TV set.
- 3 Press  **HDD/Disc** to set the recorder to HDD mode.
- 4 Press  **TV** on the remote control to view TV channels through the HDD+DVD Recorder.
- 5 Press  **PR +/-** or Number Button(s) to select a channel to record from.
- 6 Press  **Record/OTR** on the remote control to begin recording.

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  **Rec/OTR** 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  **Rec/OTR** again.
- 8 Press  **Stop** on the remote control to stop HDD recording.
- 9 Press  **Play** to review the title just recorded.





1-2 Recording

Recording to HDD Whilst Watching

To record to Hardrive using the internal TV tuner and at the same time playback a DVD / Movie disc.

- 1 Press the  **EJECT** button and insert a movie disc. Close the tray.
- 2 Press the  **TV** button and select which TV channel you want to record.
- 3 Press the  **Record** button to start recording to HDD.
- 4 Press the  **HDD/Disc** button to select DVD mode.
- 5 Press the  **Play** button or follow the DVD/Movie start up menu to watch the movie.
- 6 To stop the recording press the  **HDD/Disc** button and press the  **Stop** button.
- 7 To return to watching the movie press the  **HDD/Disc** button to select the DVD mode.

To record to Hardrive using Scart input whilst at same time viewing a DVD

- 1 Press the  **EJECT** button and insert a movie disc. Close the tray.
- 2 Press the  **Source** button and select Scart input.
- 3 Playback the external devise attached to the Scart input and then press the  **Record** button to start recording to HDD.
- 4 Press the  **HDD/Disc** button to select DVD mode.
- 5 Press the  **Play** button or follow the DVD/Movie start up menu to watch the movie.
- 6 To stop the recording press the  **HDD/Disc** button and press the  **Stop** button.
- 7 To return to watching the movie press the  **HDD/Disc** button to select the DVD mode.

To Record to Hardrive whilst at same time playing back a previously made recording from the hardrive.

You may record from the Scart input or from the internal TV tuner.

- 1 Select TV or Scart source then press  **Record** to start recording to HDD.
- 2 Press the  **Play** button to view the HDD recording titles.
- 3 Select the recording to be played using the arrow up/down buttons then press the  **Play** button.
- 4 To stop the recording being made currently to the HDD press the  **Stop** button twice.





Video Plus+ Recording

1 Press **Timer** at stop mode to display the menu.

2 Select “Video Plus+” and press **Enter**.

Nine boxes appear.

3 Input the Video Plus + code number using the remote control, then press **Enter**.

Check your local newspaper or TV programme guide for Video Plus+ code corresponding to the programme you want to record. If you want to correct the number. Press button to go back to the previous number. Select OK and press (ENTER) to confirm.

4 Input the Mapping to channel number .

You can find the this number next to the Video Plus+ code in your TV programme guide.

5 Press to select Save then press **Enter**.

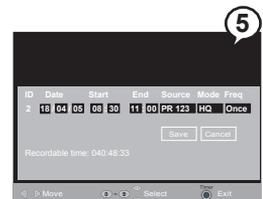
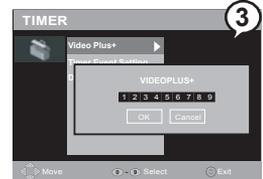
The programme summary appears. You can use buttons on the remote control to highlight and change the options, then press (ENTER).

6 Press **Enter** again.

A programme list with 8 entries information appears. You can move buttons on the remote control to select each entry for editing, then press (ENTER).

To finish the setup operation

Press to exit from Timer setup screen.



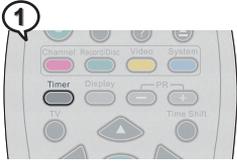
Important:

After the recording schedule has been set up, a message will appear reminding the recording time and storage location. Press the **POWER** button to switch to standby mode.



1-2 Recording-continued

Timer Recording



1 Press **Timer** at stop mode to display the menu.



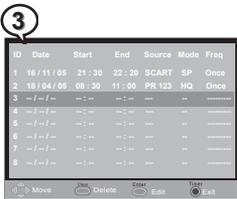
2 Use to select "Timer Event Setting" and press **Enter**.

3 Press to select one entry, then press **Enter**.

This DVD Recorder provides up to 8 entries for schedule recording.

4 Use to select the item you wish to change and use or number buttons to change the settings, then press **Enter**.

5 Use to scroll through the following items.



Example:

ID	Date	Start	End	Source	Mode	Freq
1	11/05/05	21:30	22:20	SCART	SP	Once
2	11/04/05	08:30	11:00	PR 123	HQ	Once
3	- / - / -	- : -	- : -	-	-	-
4	- / - / -	- : -	- : -	-	-	-
5	- / - / -	- : -	- : -	-	-	-
6	- / - / -	- : -	- : -	-	-	-
7	- / - / -	- : -	- : -	-	-	-
8	- / - / -	- : -	- : -	-	-	-

Use to select the source of your A/V signals.

The default setting will be shown on screen for your reference after you select and enter one entry.



6 Press **Power** button to switch to standby mode.



- Make sure Date and Time of this DVD Recorder be the same as your local time. If not, check Date/Time Setting to correct it. (Refer to [Timer Setup section](#))
- Make sure the POWER source is uninterrupted during schedule recording.

To finish the setup operation

Press **Timer** to exit from Timer setup screen.

Important:

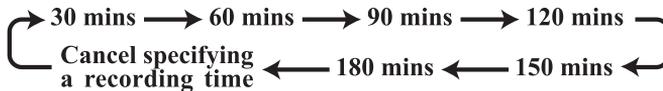
After the recording schedule has been set up, a message will appear reminding the recording time and storage location. Press the **POWER** button to switch to standby mode.

1-2 Recording-continued



To Record from External Source

- 1 Connect the recorder to TV.
- 2 Press **Standby** to turn on the recorder and external equipment.
- 3 Press **HDD/Disc** to set to HDD mode.
- 4 Press **Source** on the remote control to toggle among external input sources.
- 5 Press **Rec/OTR** on the remote control to begin recording.
- 6 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 **Rec/OTR** 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**. To resume the recording, press **Rec/OTR** again.
- 8 Press **Stop** on the remote control to stop recording.
- 9 Press **Play** to review the title just recorded.





1-2 Recording-continued

Timeshift Operation in HDD



1 Recording Functions

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

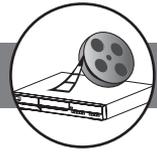
- 1 Connect the recorder to the TV set.
- 2 Turn on  **Power** of the recorder and the TV set.
- 3 Press  **Source** on the remote control to view TV channels through the HDD+DVD Recorder.
- 4 Press  **PR+/-** or **Number Button(s)** to select a channel to view.
- 5 Press  **Timeshift** while watching 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  **Disc 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 stopped Timeshift, the temporarily stored program will be deleted.

1-3 Editing



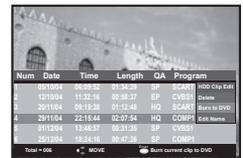
Deleting HDD Recording Titles

- 1 Press **HDD/Disc** 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 Use **▲ / ▼** to select a clip to delete.
- 4 Press **▶** to bring up the HDD Clip Edit menu.
- 5 Use **▲ / ▼** to select Delete and press **Enter**.
An option window appears, select Yes to confirm.
- 6 Press **◀** to return to the HDD title menu.



Dubbing HDD Recording Titles

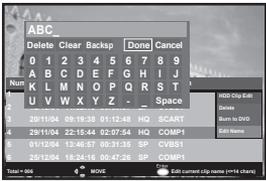
- 1 Press **Eject** to open the disc tray.
- 2 Place a recordable DVD onto the tray.
- 3 Press **Eject** to close the disc tray.
- 4 Press **HDD/Disc** to set the recorder to HDD mode.
- 5 Press **Play** to display the title menu.
- 6 Use **▲ / ▼** to highlight a title to dub.
- 7 Press **▶** to bring up the HDD Clip Edit menu.
- 8 Use **▲ / ▼** to select Burn to DVD and press **Enter** to enter.
An option window appears, select Yes to confirm.
- 9 Press **◀** to return to the HDD title menu.



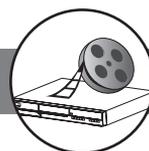


1-3 Editing-continued

Editing Title Names in HDD



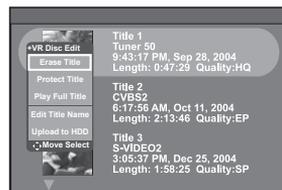
- 1 Press **HDD/Disc** to set the recorder to HDD mode.
- 2 Press **Play** to display the title menu. The recording is directly playing the lasted recorded title.
- 3 Use **▲/▼** to highlight a title to edit.
- 4 Press **▶** to bring up the HDD Clip Edit menu.
- 5 Use **▲/▼** to select Edit Name and press **Enter** to enter.
- 6 A keyboard menu appears. Use **▲/▼/▶/◀** to select characters and press **Enter** to enter.
- 7 To leave the keyboard menu, use **▲/▼/▶/◀** select **Done** then press **Enter**. The new title will reflect on the title menu.



Editing Titles in the Title Menu in DVD

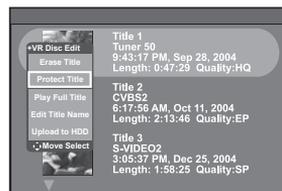
Erase Title

- 1 Use ▲ / ▼ to select a title to edit.
- 2 Press **Edit** to bring up the **+VR Disc Edit** menu.
- 3 Use ▲ / ▼ to select **Erase Title** then press **Enter** to confirm.
- 4 The updated Title Menu will appear on the screen.



Protect/Unprotect Title

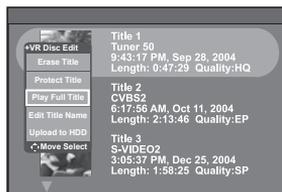
- 1 Use ▲ / ▼ to select a title to edit.
- 2 Press **Edit** to bring up the **+VR Disc Edit** menu.
- 3 Use ▲ / ▼ to select **Protect Title** or **Unprotect Title** and press **Enter**.



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

Play Full Title

- 1 Use ▲ / ▼ to select a title to edit.
- 2 Press **Edit** to bring up the **+VR Disc Edit** menu.
- 3 Use ▲ / ▼ to select **Play Full time** and press **Enter**.



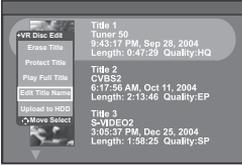
Note: Selecting *Play Full Title* will play the all titles, including hidden chapters.



1-3 Editing-continued

Editing Titles in the Title Menu in DVD - continued

Edit Title Name



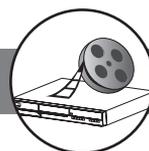
- 1 Use ▲ / ▼ to select a title to edit.
- 2 Press **Edit** to bring up the **+VR Disc Edit** menu.
- 3 Use ▲ / ▼ to select **Edit Title Name** then press to confirm.
- 4 A keyboard menu appears. Use ▲/▼/▶/◀ to select characters and press to enter.
- 5 To leave the keyboard menu, use ▲/▼/▶/◀ select **Done** then press . The new title will reflect on the title menu.



Upload to HDD

- 1 Use ▲ / ▼ to select a title to edit.
- 2 Press **Edit** to bring up the **+VR Disc Edit** menu.
- 3 Use ▲ / ▼ to select **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/Disc** to set the recorder to HDD mode.
- 6 Press **Play** to display the title menu. Use ▲ / ▼ to select the title. Press **Play** again to leave the menu.

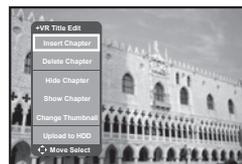




Editing Titles During DVD Playback

Insert Chapter

- 1 Use ▲ / ▼ to select a title and press **Play**.
- 2 Press **Edit** during playback, an edit menu appears.
- 3 Use ▲ / ▼ to select **Insert Chapter**. Press **Enter** at the point where you wish to insert a chapter bookmark. A new chapter is created.

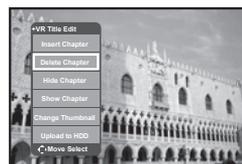


Note:

- 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 **Disc Info.** during playback.

Delete Chapter

- 1 Use ▲ / ▼ to select a title and press **Play**.
- 2 Press **Edit** during playback, an edit menu appears.
- 3 Use ▲ / ▼ to select **Delete Chapter**. Press **Enter** to delete the chapter that is currently playing.

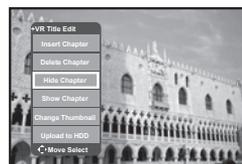


Note:

- 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 **Disc Info.** during playback.

Hide Chapter

- 1 Use ▲ / ▼ to select a title and press **Play**.
- 2 Press **Edit** during playback, an edit menu appears.
- 3 Use ▲ / ▼ to select **Hide Chapter**. Press **Enter** to hide the chapter that is currently playing.



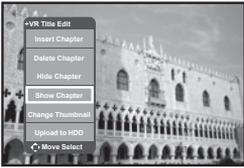
Note:

- **Hidden Chapters** will not show up during normal playback. To play the hidden chapters, press **Goto.**
- To play the whole title included the hidden chapters, please refer to - **Play Full Title** on page 34.



1-3 Editing-continued

Editing Titles During DVD Playback - continued



Show Chapter

- 1 Use ▲ / ▼ to select a title to edit.
- 2 Press **Edit** to bring up the **+VR Disc Edit** menu. Use ▲ / ▼ to select **Play Full Title** and press **Enter**.
- 3 Press **Edit** during playback, an edit menu appears.
- 4 Use ▲ / ▼ to select **Show Chapter**. Press **Enter** to reveal all hidden chapters.

Change Thumbnail

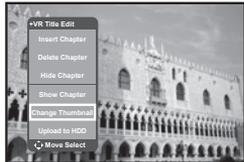


- 1 Use ▲ / ▼ to select a title and press **Play**.
- 2 Press **Edit** during playback, an edit menu appears. Use ▲ / ▼ to select **Change Thumbnail** and press **Enter** to select the immediate screen as the thumbnail photo.
- 3 Press **Menu** or **Title** to return to the title menu. The new thumbnail will reflect on the screen.



Note:

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



Thumbnail is changed

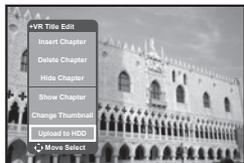
Upload to HDD

- 1 Use ▲ / ▼ to select a title to edit.
- 2 Press **Edit** during playback and use ▲ / ▼ to select **Upload to HDD** then press **Enter**.



Note:

• This option is only valid when a recordable DVD is loaded.



2-1 HDD and DVD Operations



Preparations:

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

Basic HDD Playback

- 1 Press **Standby**.
- 2 Press **HDD/Disc** to switch to HDD mode.
- 3 Press **Play**, a title menu appears on the screen and the last recorded title starts playback behind the title menu.
- 4 Use to select a title. The selected title will begin to play behind the title menu.
- 5 Press **Play** again to leave the title menu.



Basic DVD Playback

- 1 Press **Standby**.
- 2 Press **HDD/Disc** to switch to 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 is closed.
- 5 If the disc has one or more titles recorded on it, a menu will appear on the TV screen. Use to select 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 bring up the title menu.
To leave the menu, press **Play**.





2-1 HDD and DVD Operations - 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 bring up the title menu.

Stopping HDD Playback



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

Stopping DVD Playback



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

Fast Forward (Fast Backward)



- 1 Press **F.BWD** or **F.FWD** during playback. The speed of DVD advance () or DVD reverse () changes for each press of **F.FWD** or **F.BWD**. The speed of VCD advance () or VCD reverse () changes for each press of **F.FWD** or **F.BWD**.

- 2 Press **Play** to return to normal playback.

Skipping Chapters

Skipping Ahead



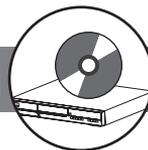
- Press **Next** during playback. Skips a chapter each time you press the button.

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 to the previous chapter each time you press the button.

2-1 HDD and DVD Operations - 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

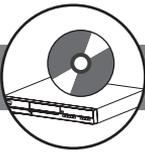
- 1 Press **Slow** during playback.
The playback speed changes forwardly and backwardly ($\blacktriangleright 1/2$, $\blacktriangleright 1/4$, $\blacktriangleright 1/8$ and $\blacktriangleleft 1/16$) each time you press **Slow**.
- 2 Press **Play** to return to normal playback.



Selecting Scenes by Title Number

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





2-1 HDD and DVD Operations - continued

Selecting Scenes by Chapter Number



- 1 Press **Go to** 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 **Go to** again to leave the menu box.

Selecting Scenes by Time



- 1 Press **Go to** 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.
- 4 Press **Go to** again to leave the menu box.

Selecting Audio System During Playback



- 1 Press **Go to** during the playback. A menu box appears on the screen.
- 2 Press **▲ / ▼** to select **Audio**.
- 3 Press **▶/◀** to edit audio setting.
- 4 Press **Go to** again to leave the menu box.



Selecting Subtitle During Playback

- 1 Press **Go to** during playback. A menu box appears on the screen.
- 2 Press **▲ / ▼** to select **Subtitle**.
- 3 Press **▶ / ◀** to edit subtitle setting.
- 4 Press **Go to** again to leave the menu box.



Note: This function is not available in HDD mode.



Selecting Angle During Playback

- 1 Press **Go to** during playback. A menu box appears on the screen.
- 2 Press **▲ / ▼** to select **Angle**.
- 3 Press the **Number Button(s)** or **▶ / ◀** to edit angle number. New viewing angle will be played.
- 4 Press **Go to** 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 **Disc 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 **Disc Info.** again to close the Info. list.



2-1 HDD and DVD Operations - continued

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



- 1 Press **Repeat A-B** during playback.
 OFF appears on the right corner of the screen.
- 2 Press **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 **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 **Repeat A-B** until OFF appears.

Repeating HDD Playback



- 1 Press **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 **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.



Zooming During Playback

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



Changing Audio Soundtrack Language

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



Note:

- This function is only valid for discs with multi-language audio soundtracks.
- When the preferred language is not among the options, it may indicate that the language is not available on the disc.
- If no audio soundtrack language is selected, the DVD Recorder will play the default language on that disc.





2-1 HDD and DVD Operations - continued

Changing Subtitles



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



Note:

- This function is only valid for discs with pre-recorded subtitles.
- When the preferred language is not among the options, it may indicate that the language is not available on that disc.
- If no audio soundtrack language is selected, the recorder will play the default language on that disc.
- In some instances, changing the subtitle language may not take place immediately after it is selected.

2 DVD & HDD

Viewing from Different Angles



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



Note:

- This function is only available with discs that have pre-recorded angle footages.

3-1 Audio CD Playback

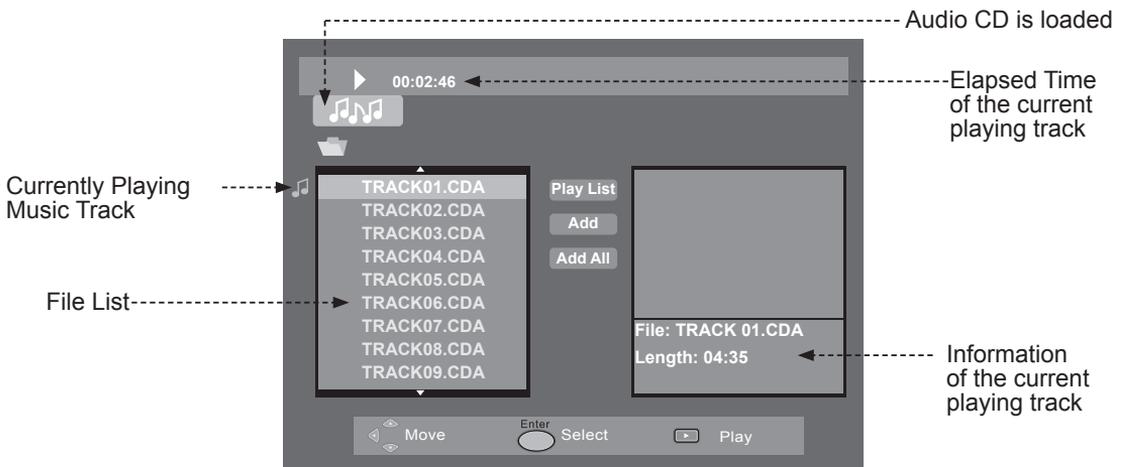


Preparations:

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

Basic Playback

- 1 Press **Standby**.
- 2 Press **HDD/Disc** 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 is closed, the recorder will start playback starting from the first track.
- 5 To play a different track, use to select a title from the menu. Press **Play** to start to playback the selected title.



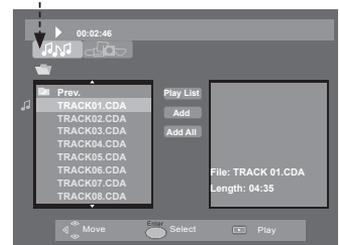
3 Audio CDs



Note:

- Some discs may contain both mixed format files. Use to select the audio tab on the upper-left corner and press .
- To enter one of the folders, use to highlight the preferred folder and press . The files among the folder will be displayed on the File List.

Highlight the symbol of Audio CD to enter Audio CD mode





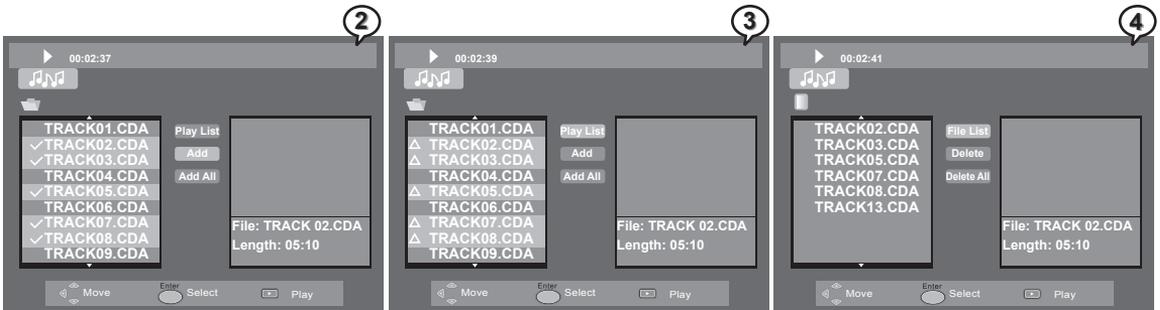
3-1 Audio CD Playback - continued

Adding Audio CD Tracks into Play List

- 1 Use ▲/▼ to select the track that you wish to add to the Play List. Press **Edit** to select. A check appears next to the selected track.
- 2 Repeat the above step to select other music tracks for Play List. Use ▶/▼ to select the **Add** tab and then press .
- 3 Triangle appears next to all of the selected music tracks. Use ▲/▼ to select the **Play List** tab 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, press **Add** each time after selecting a music track.
- 5 To play the music in the Play List, use ▶/◀ /▲/▼ to highlight a music track in the menu. Press **Play** to start playback the Play List from the highlighted track.
- 6 To return to the File List, select the **File List** tab and press .



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



Adding All Audio CD Tracks into Play List

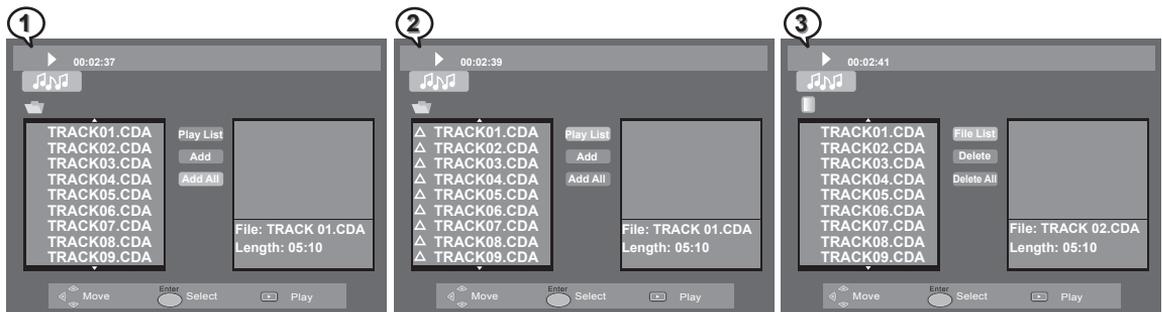
- 1 Use ▶/◀ /▲/▼ to select the **Add All** tab and then press .
- 2 Triangle appears next to all of the music tracks on the file list. Use ▲/▼ to select the **Play List** tab and then press . Play List displays all music tracks on the disc.



Adding All Audio CD Tracks into Play List - continued

- To play the music from the Play List, use **▶/◀/▲/▼** to select a music track in the menu. Press **▶** **Play** to play selected track from the Play List.
- To return to the File List, select the **File List** tab and press **Enter**.

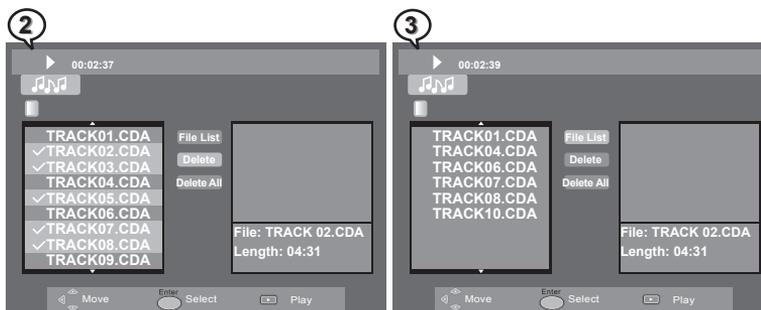
Note: Play List editing can be done in both stop and playback modes.



Deleting Tracks from Play List

- Use **▲/▼** to select a music track to be removed from the Play List and then press **□** **Edit**. A check 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. Use **▶/◀/▲/▼** to select **Delete** and then press **Enter**.
- The selected tracks are deleted from Play List. To delete single music track, select a music track with **□** **Edit** and press **○** **Clear**. The select track will be removed from the Play List.
- To return to the File List, select **File List** and press **Enter**.

Note: Play List editing can be done in both stop and playback modes.





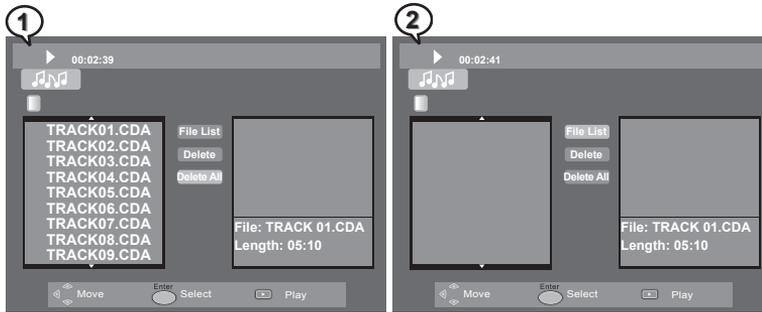
3-1 Audio CD Playback - continued

Deleting All Music Tracks from Play List

- 1 Use **▶/◀/▲/▼** to select **Delete All** and then press **Enter**.
- 2 All music tracks on the Play List are removed. To return to the File List, select **File List** and press **Enter**.



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



Stopping Playback

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



Fast Forward (Fast Backward)

- 1 Press **◀◀** F.BWD or **▶▶** F.FWD during playback. The speed of advance (▶▶2x, ▶▶4x, ▶▶8x and ▶▶16x) or reverse (◀◀2x, ◀◀4x, ◀◀8x and ◀◀16x) 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. Skips to the next track each time you press the button.



Skipping Back

- Press **◀◀** Prev. during playback. Pressing the **◀◀** Prev. midway through a track will return to the previous music track. The recorder skips a track each time the button is pressed.



Pausing Playback

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



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

- 1 Press **Repeat A-B** during the playback at the time where repeat play is to start (A).
 A-B appears on the middle top of the screen.
- 2 Press **Repeat A-B** again during the playback at the time where repeat play is to end (B).
 A-B-B appears on the middle top of the screen.
- 3 The music track starts to play the section between point A and point 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 current Track 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 Disc Information

Displaying Track Information

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



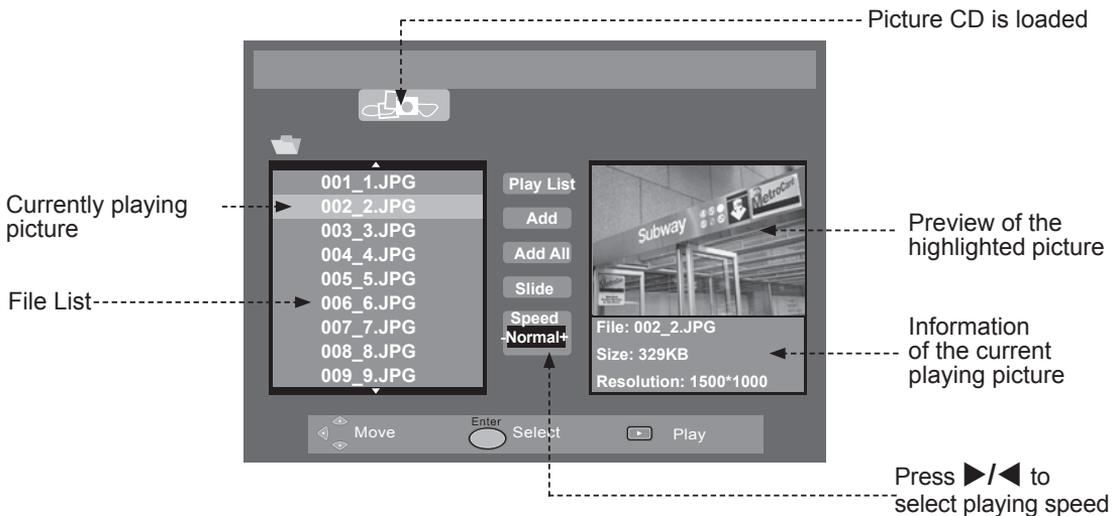
4-1 Kodak and JPEG Picture CDs

Playing Picture CDs

- 1 Press **Standby**.
- 2 Press **HDD/Disc** 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.

Stopping Playback to Display the File List

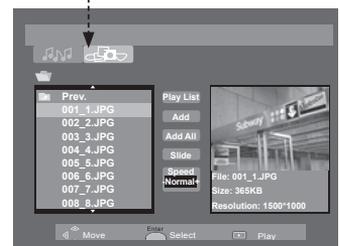
- 1 Press **Stop** to stop the playback, a File List appears on the screen.



Note:

- Some discs may contain mixed format files. To select Picture CD mode, use / to select the Picture CD tab and press .
- Discs with more than one directory will show all directories in the File List.
- To enter one of the folders, use / to select the preferred folder and press . The files among the folder will be displayed on the File List.

Select the Picture CD tab to enter Picture CD mode





Selecting Picture Files into Play List

- 1 Use ▲/▼ to select a picture and then press **Edit**. A check appears next to the selected picture.
- 2 Repeat the above step to select other pictures for Play List programming. Use ►/◀/▲/▼ to select the **Add** tab and then press **Enter**.
- 3 Triangle appears next to all of the selected pictures. Press ▲/▼ to select the **Play List** tab and then press **Enter**.
- 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, press the **Add** tab each time after selecting a picture file.
- 5 To play the pictures on the Play List, press **Play** to start playback, or use ►/◀/▲/▼ to select the **Slide** tab and press **Enter**.
- 6 To return to the File List, select the **File List** tab and press **Enter**.



Adding All Picture Files into Play List

- 1 Use ►/◀/▲/▼ to select the **Add All** tab and then press **Enter**.
- 2 Triangles appear next to all of the picture files on the File List. Use ▲/▼ to select the **Play List** tab and then press **Enter**.
- 3 Play List displays all music tracks of the disc.





4-1 Kodak and JPEG Picture CDs - continued

Adding All Picture Files into Play List - continued

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

Deleting Picture Files from Play List

- Press to select a music track which is going to be removed from the Play List and then press **Edit**. A check appears in front of the selected track.
- Repeat the above step to select other music tracks to be removed for the Play List. Use to select the **Delete** tab and then press .
- The selected tracks are deleted from Play List. To delete single music tracks, select a music track with **Edit** and press **Clear**. The selected track will be removed from the Play List.
- To return to the File List, select the **File List** tab and press .



Deleting All Picture Files from File List

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





Viewing Pictures through Other Functions

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 Press **Pause** and **▶/◀/▲/▼** 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 **Disc 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 **Disc Info.** again.





5 Initial Settings

This chapter covers all the OSD settings for your HDD/DVD recorder. Some of the settings can also be done by using the remote control.

There are five setup buttons on the remote control to choose from for the setting that best suits your case, including **Channel**, **Record/Disc**, **Video**, **System**, and **Timer**.

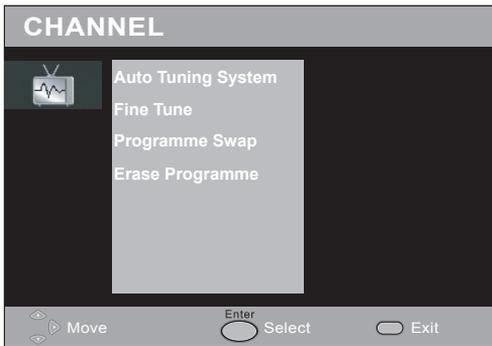


The Following is the Overview of the five OSD Settings:

A. Under **CHANNEL** Setup:

B. Under **RECORD/DISC** Setup:

a When No Disc is inserted:



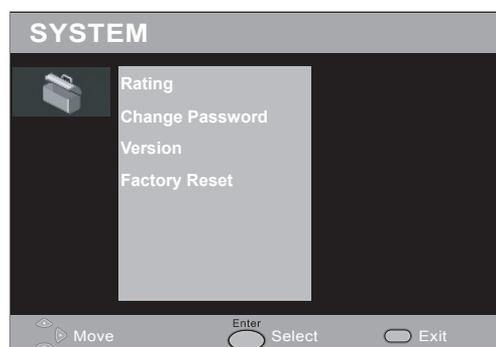
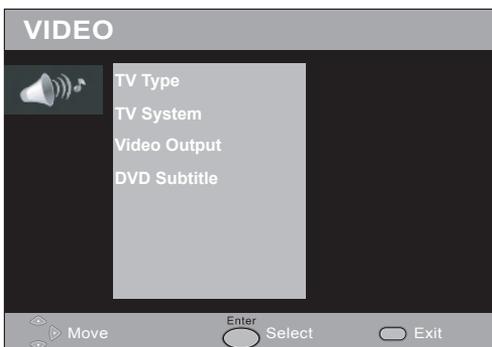
B. **b** When a DVD+R disc is inserted:

B. **c** When a DVD+RW disc is inserted:



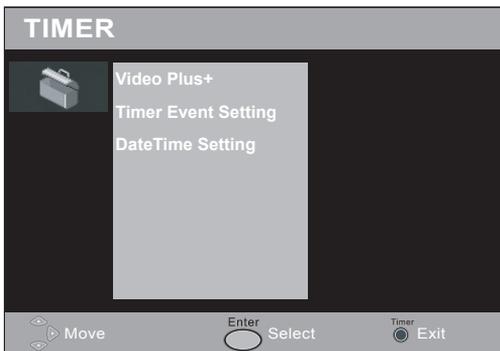
C. Under **VIDEO** Setup:

D. Under **SYSTEM** Setup:





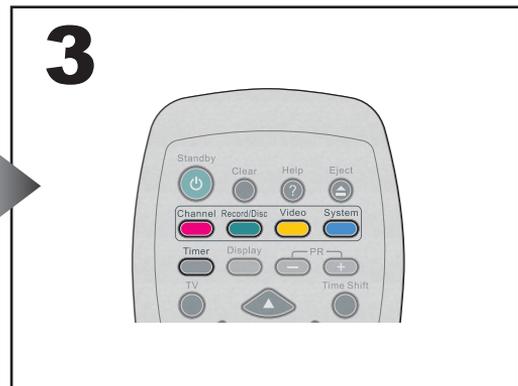
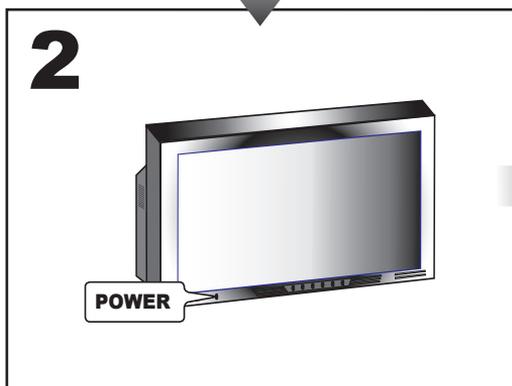
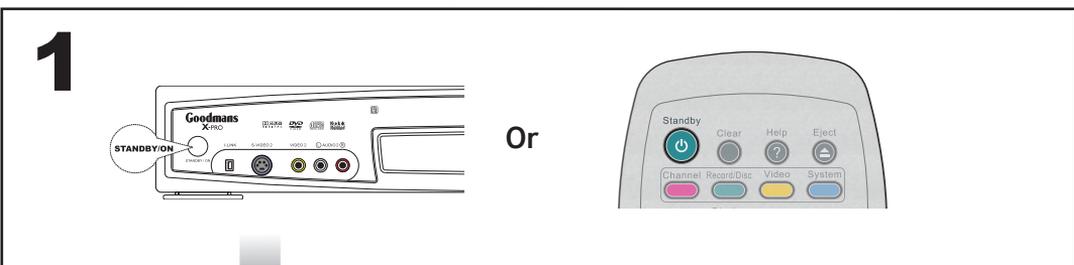
E. Under **TIMER** Setup:



Please refer to the OSD instruction to do the following setting.

In Advance:

1. Press the **STANDBY/ON** button on the DVD Recorder or the **Standby** button on the remote control to turn on your DVD Recorder.
2. Turn on your TV, and switch it to the correct Video In channel.
3. Press **Channel**, **Record/Disc**, **Video**, **System**, or **Timer** button at stop mode to display the menus.





5-1 AUTO TUNING SYSTEM Setup

Auto Tuning System Setting



Auto Tuning System is a tuner search and allows a channel to be confirmed. During initial setup, this DVD Recorder will select available TV channels. Yet, if more channels become available in your area, you may need to repeat the Channel Search to update the available channels.



1. While performing Auto Tuning, it will erase and replace all previously stored channels.
2. Before performing Auto Tuning, make sure your TV connections has been made properly.
 - For Details on how to make TV connection to your DVD Recorder, please refer to the *Quick Guide*.



1 Press Channel at stop mode to display the menu.

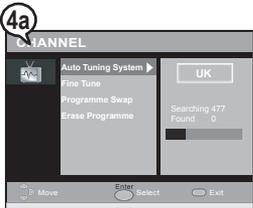
2 Select "Auto Tuning System" and press .

3 Use ▲/▼ to select a region. UK or EIRE

4 Press .



4a Auto Tuning then starts and your HDD/DVD Recorder will tune in all the receivable channels to your TV. This process may take several minutes to be done.
The total available channel numbers are displayed when Auto Tuning is finished.



To finish the setup operation

Channel
Press  to exit from Channel setup screen.



Fine Tune Setting

Using Fine Tune to adjust the channel station frequency for a best reception result.

- 1 Press **Channel** at stop mode to display the menu.
- 2 Use ▲/▼ to select “Fine Tune”, then press **Enter**.
- 3 Use ►/◀ to decrease/increase intervals, then press **Enter**.

To finish the setup operation

Press **Channel** to exit from Channel setup screen.



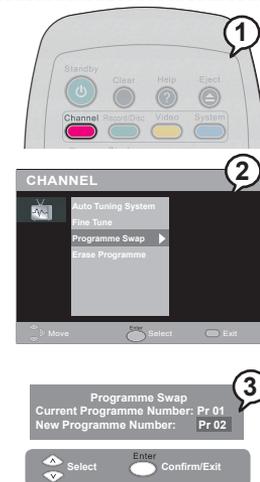
Programme Swap Setting

Using Programme Swap to reset the received channel numbers into your favourite order.

- 1 Press **Channel** at stop mode to display the menu.
- 2 Use ▲/▼ to select “Programme Swap”, then press **Enter**.
- 3 Use ▲/▼ to decrease/increase programme numbers, then press **Enter** to confirm.

To finish the setup operation

Press **Channel** to exit from Channel setup screen.

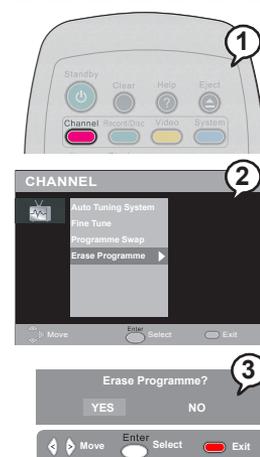


Erase Programme Setting

- 1 Press **Channel** at the playing channel you wish to erase.
- 2 Press ▼ to select “Erase Programme”, press **Enter**.
- 3 Select “YES” then press **Enter** to erase the channel.

To finish the setup operation

Press **Channel** to exit from Channel setup screen.





5-2 RECORD / DISC Setup

The RECORD/DISC Setting OSD will vary according to inserted disc type. Please refer to the OSD menu accordingly.



- If you place a blank DVD+R or DVD+RW disc, it will be formatted automatically.

Record Quality Setting



1 Press **Record/Disc** in the stop mode to display the menu.

2 Select "Record Quality" and press **Enter**.

3 Use **▲/▼** to select the preferred record quality and press **Enter**.



You can also press **Rec. Quality** button on the remote control to call out this OSD setting.

HQ (High Quality): to record about one hour for DVD

SP (Standard Play): to record about two hours for DVD

LP (Long Play): to record about three hours for DVD

EP (Extended Play): to record about four hours for DVD

SLP (Standard Long Play): to record about six hours for DVD

- The OSD Example in the left is when No Disc is placed. If you insert a DVD+R or DVD+RW disc, the OSD will be shown as follows :

a When a DVD+R disc is inserted:



b When a DVD+RW disc is inserted:



To finish the setup operation

Record/Disc

Press  to exit from Record/Disc setup screen.



Auto Chapter Setting

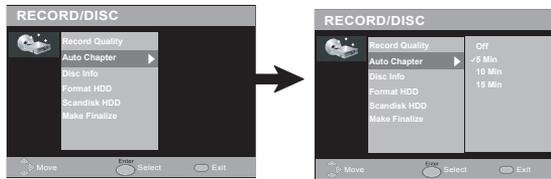
- 1 Press **Record/Disc** in the stop mode to display the menu.
- 2 Press **▼** to select “Auto Chapter” and press **Enter**.
- 3 Select **ON** by pressing **Enter** to initiate the function of Auto Chapter.

Once the Auto Chapter is on, this DVD Recorder will automatically insert a Chapter marker during recording. You can also manually insert Chapter markers after recording. For details, please refer to [Chapter 1-3: Editing](#).

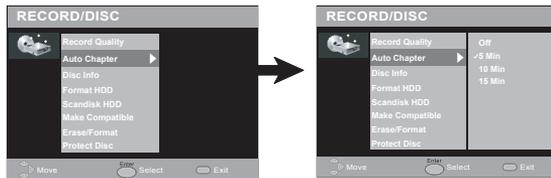
- The OSD Example in the right is when No Disc is inserted. If you insert a DVD+R or DVD+RW disc, the OSD will be shown as follows :



- a When a DVD+R disc is inserted:



- b When a DVD+RW disc is inserted:



To finish the setup operation

Record/Disc
Press **Enter** to exit from Record/Disc setup screen.



5-2 RECORD / DISC Setup-continued

Disc Info. Setting



1 Press **Record/Disc** in the stop mode to display the menu.

2 Press **▼** to select “Disc Info.” and then press **Enter**.

3 Use **▶/◀** to select to view the HDD or DVD information

2a When a DVD+R disc is inserted

2b When a DVD+RW disc is inserted



4 The related information about your disc will display on the screen, including Disc type, Total recorded title, Protected title, and Total recorded time.



To finish the setup operation

Record/Disc

Press  to exit from Record/Disc setup screen.

Format HDD Setting

5 Initial Settings



1 Press **Record/Disc** in the stop mode to display the menu.

2 Press **▼** to select “Format HDD”.

3 Press **▶** to select “Start”.

4 Press **Enter**.

5 Select “Yes” and press **Enter** to confirm.



To finish the setup operation

Record/Disc

Press  to exit from Record/Disc setup screen.





Scandisk HDD Setting

- 1 Press **Record/Disc** in the stop mode to display the menu.
- 2 Press **▼** to select “Scandisk HDD”.
- 3 Press **▶** to select “Start”.
- 4 Press **Enter**.
- 5 Select “Yes” and press **Enter** to confirm.



To finish the setup operation

Record/Disc

Press  to exit from Record/Disc setup screen.





5-2 RECORD / DISC Setup-continued

Make Finalize Setting



1 Press **Record/Disc** in the stop mode to display the menu.



2 Press **▼** to select “Make Finalize”.

3 Press **▶** to select “Start”.

4 Press **Enter**.

5 Select “Yes” and press **Enter** to confirm.



- The finalization function only works Once in DVD+R discs.
- You must finalize a DVD+R disc before it can be played on another DVD player.



To finish the setup operation

Record/Disc

Press  to exit from Record/Disc setup screen.

Make Compatible Setting



1 Press **Record/Disc** in the stop mode to display the menu.

2 Press **▼** to select “Make Compatible”.

3 Press **▶** to select “Start”.

4 Press **Enter**.

5 Select “Yes” and press **Enter** to confirm.



If you do not make your DVD+RW compatible, you can only play back this disc in this DVD Recorder.



To finish the setup operation

Record/Disc

Press  to exit from Record/Disc setup screen.



DVD+RW

Erase/Format Setting

- 1 Press **Record/Disc** at stop mode to display the menu.
- 2 Press **▼** to select “Erase/Format”.
- 3 Press **▶** to select “Start”.
- 4 Press **Enter**.
- 5 Select “Yes” and press **Enter** to confirm.



- Please confirm that the DVD+RW disc is in REC already. As this command may not be paused or cancelled, please reconsider the necessity of such acts.
- When Finalization and Erasing begin, all REC functions are locked. Please do not turn off the power at this time in case of loss of information.

To finish the setup operation

Record/Disc

Press  to exit from Record/Disc setup screen.



Protect Disc Setting

- 1 Press **Record/Disc** at stop mode to display the menu.
- 2 Press **▼** to select “Protect Disc”.
- 3 Press **▶** to select “Start”.
- 4 Press **Enter**.

- After the Disc is Protected, the “Make Compatible” and “Erase/Format” functions will be disabled.

To finish the setup operation

Record/Disc

Press  to exit from Record/Disc setup screen.





5-3 VIDEO Setup

TV Type Setting

The kind of TV set (4:3 or 16:9) connected to this DVD Recorder can be selected.



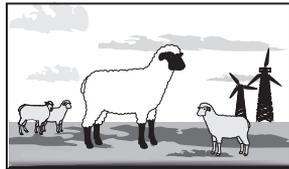
1 Press **Video** at stop mode to display the menu.

2 Select "TV type" by pressing .



3 Press  to select a preferred TV display, then press .

There are 16:9 Widescreen, 4:3 Letterbox, and 4:3 Full screen that can be used to display DVD movies on your TV.

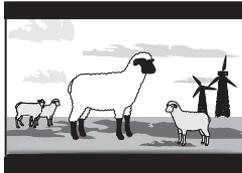


3a. 16:9 Widescreen

Select **16:9 Widescreen** if your recorder connect to a wide screen TV to play the movie in "FULL" size.

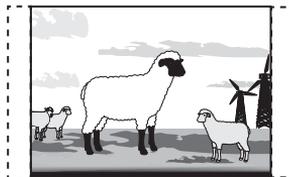
IMPORTANT

If you select this setting for a conventional size TV, this might result a distorted screen.



3b. 4:3 Letter Box

Select **4:3 Letter Box** if you want to play the movie in its original aspect ratio on a conventional size TV. The entire frame will appear on the screen, but you will see the black bars appear at the top and bottom of the screen.



3c. 4:3 PanScan

Select **4:3 PanScan** (Pan and Scan) if you want the movie to fill the entire screen of your TV. This may result the left and right edges of picture won't be seen.

To finish the setup operation

Press  to exit from Video setup screen.



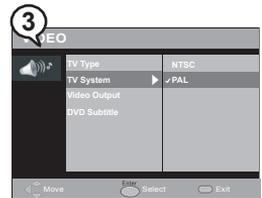
TV System Setting

Select the "PAL" or "NTSC" in accordance with your TV's system. If your TV supports both PAL and NTSC.

- 1 Press **Video** at stop mode to display the menu.
- 2 Press **▼** to select "TV System".
- 3 Use **▶/▲/▼** to select a system.
- 4 Press **Enter**.

To finish the setup operation

Press **Video** to exit from Video setup screen.



Subtitle Setting

Allows you to set various languages for the on screen display (OSD).

- 1 Press **Video** at stop mode to display the menu.
- 2 Press **▼** to select "DVD Subtitle".
- 3 Use **▶/▲/▼** to select a language.
- 4 Press **Enter**.

To finish the setup operation

Press **Video** to exit from Video setup screen.





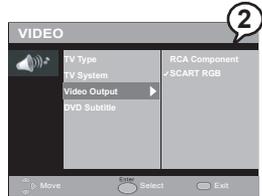
5-3 VIDEO Setup-continued

Video Output Setting

Please choose the preferred video output according to the output format.



1 Press **Video** in the stop mode to display the menu.



2 Press **▼** to select “TV System”.

3 Use **▶/▲/▼** to select a video output source.

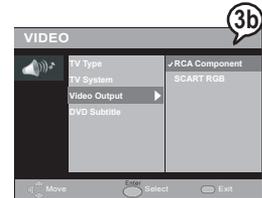
a SCART RGB

Select “SCART RGB” when you’ve connected this recorder’s SCART OUT to TV via Scart cable. This will provide a better viewing result.



b RCA Component

Select “RCA Component” when you’ve connected this recorder’s Cr Y Cb Out jacks to TV’s Cr Y Cb input via Component video cable. This will provide the best viewing result.



To finish the setup operation

Press  to exit from Video setup screen.

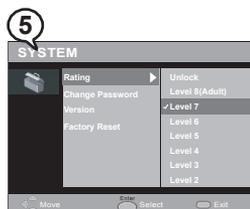
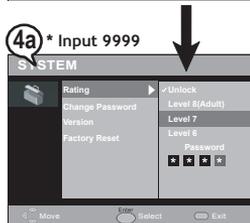
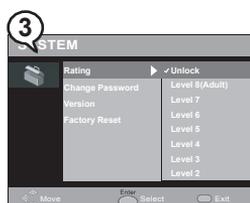
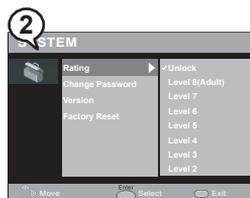
5-4 SYSTEM Setup



RATINGS Setting [DVD]

A built-in viewer rating setting enables you to lock the videos that you do not want children to view.

- 1 Press **System** at stop mode to display the menu.
- 2 Select "Rating" by pressing **Enter**.
- 3 Use **▶/▲/▼** to select a rating then press **Enter**.
- 4 Input a 4-digit password with the number buttons.
 - 4a For the first timer-- Factory pre-set password : 9999
- 5 Press **▲/▼** to select a level press **Enter**.



Rating Explanations

Unlock	No restriction
Level 8	No children under the age of 17; not recommended viewing for children under age 17.
Level 7	Parental Guidance-restricted; recommended that parents restrict children under age 17 from viewing or allow children to view only when supervised by a parent or adult guardian.
Level 6	
Level 5	Material may be unsuitable for children under the age of 13.
Level 4	Parental Guidance suggested.
Level 3	
Level 2	General Audience; recommended as acceptable for viewers of all ages.

For Your Reference:

- You can use the parental control lock ONLY with DVD video discs featured with the parental lock function.
- Some discs may not be encoded with specific rating level information though its disc jacket says that is for "adults". For those discs, RATINGS lock will not function.

To finish the setup operation

Press **System** to exit from System setup screen.



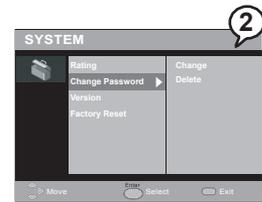
5-4 SYSTEM Setup-continued

Change/Delete PASSWORD Setting [DVD]

You can change the password to your DVD by selections.



1 Press **System** at stop mode to display the menu.



2 Select "Change Password" by pressing **Enter**.

3 Use **▶/▲/▼** to select "Change" then press **Enter**.

3a Select "Delete" if you would like to delete your current password.

3b Input a 4-digit password with the number buttons.
Factory pre-set password : 9999

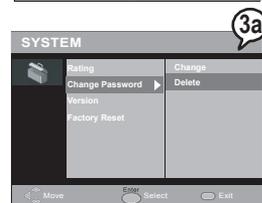


4 Enter your new password, and then press **Enter**.

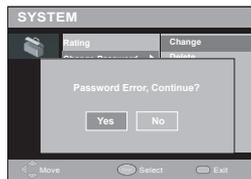
4a Input a NEW 4-digit password with the number buttons.

5 Enter your new password again for confirmation, and then press **Enter**.

Input the same 4-digit password as in Step 5 with the number buttons.



If you've inputted the wrong password, the following screen will appear:



Please then re-enter your password.

If you've forgotten your password, please select "Factory Reset" to restore to the default setting.

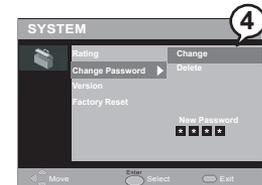
* Input 9999



To finish the setup operation

System

Press **System** to exit from System setup screen.





Version Setting

To display this recorder's model number, part number, and etc.

1 Press System at stop mode to display the menu.

2 Use ▲/▼ to select "Version" .

To finish the setup operation

Press  to exit from System setup screen.



Factory Reset Setting

You may re-set the previous settings in System to the default setting.

1 Press System at stop mode to display the menu.

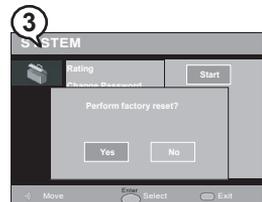
2 Use ▲/▼ to select "Factory Reset" and press .

3 Select "Yes", then press .

 After selecting "Confirm", this DVD Recorder will reset every setup item in the setup menu. When factory default is done, the machine will automatically reboot.

To finish the setup operation

Press  to exit from System setup screen.



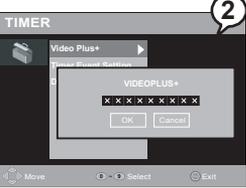


5-5 TIMER Setup

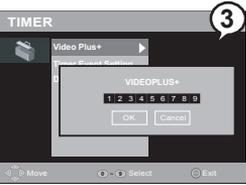
Video Plus+ Recording



1 Press **Timer** at stop mode to display the menu.



2 Select "Video Plus+" and press **Enter**.
Nine boxes appear.



3 Input the Video Plus + code number using the remote control, then press **Enter**.

Check your local newspaper or TV programme guide for Video Plus+ code corresponding to the programme you want to record. If you want to correct the number. Press **◀** button to go back to the previous number. Select **OK** and press **Enter** (ENTER) to confirm.



4 Input the Mapping to channel number .

You can find the this number next to the Video Plus+ code in your TV programme guide.



5 Press **▶** to select Save then press **Enter**.

The programme summary appears. You can use **▲/▼** buttons on the remote control to highlight and change the options, then press **Enter** (ENTER).



6 Press **Enter** again.

A programme list with 8 entries information appears. You can move **▲** or **▼** buttons on the remote control to select each entry for editing, then press **Enter** (ENTER).

To finish the setup operation

Press **Timer** to exit from Timer setup screen.

⚠ Important:

After the recording schedule has been set up, a message will appear reminding the recording time and storage location. Press the **POWER** button to switch to standby mode.

5-5 TIMER Setup-continued



Timer Recording

- 1 Press **Timer** at stop mode to display the menu.
- 2 Use **▼** to select “Timer Event Setting” and press **Enter**.



- 3 Press **▲ / ▼** to select one entry, then press **Enter**.

This DVD Recorder provides up to 8 entries for schedule recording.

- 4 Use **◀ / ▶** to select the item you wish to change and use **▲ / ▼** or number buttons to change the settings, then press **Enter**.



- 5 Use **▶** to scroll through the following items.

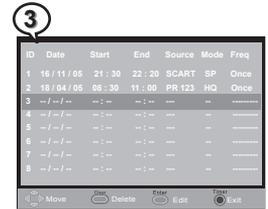


Example:

ID	Date	Start	End	Source	Mode	Freq
3	11 / 05 / 05	13 : 30	11 : 00	PR 001	HQ	Once

Use **▲ / ▼** to select the source of your A/V signals.

The default setting will be shown on screen for your reference after you select and enter one entry.



- 6 Press **Power** button to switch to standby mode.



- Make sure Date and Time of this DVD Recorder be the same as your local time. If not, check Date/Time Setting to correct it. (Refer to Timer Setup section)
- Make sure POWER source is uninterrupted during schedule recording.

To finish the setup operation

Press **Timer** to exit from Timer setup screen.

⚠ Important:

After the recording schedule has been set up, a message will appear reminding the recording time and storage location. Press the **POWER** button to switch to standby mode.

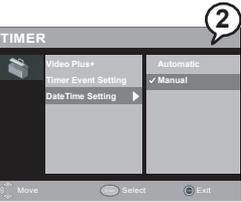


5-5 Timer Setup-continued

Date / Time Setting



1 Press **Timer** at stop mode to display the menu.



2 Press **▼** to select “Date Time Setting” and press **Enter**.

3 Use **▶/▲/▼** to select “Automatic” to adjust time automatically or “Manual” to adjust time manually. Press **Enter** to enter.

4 Use **◀/▶** to select the item you wish to change and use **▲/▼** to change the value.

Use **◀/▶** to scroll through the following items.



5 Use **◀/▶** to select “Save” and press **Enter**.

Example:

Time	18:30:20	
Date	15/04/04	THU

It will change automatically according to your setup date.



Lightbulb icon: Every time before doing timer recording, you have to check the date and time setting again to make sure the information of the date and time is correct.

To finish the setup operation

Press **Timer** to exit from System setup screen.

6-1 Troubleshooting



Before requesting service for the 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 player is set to on. • Check if no power at the AC outlet by plugging in another appliance for a test.
The player 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 player to dry out. • This player 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 player 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 player.
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.



6-1 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.

SYMPTOM (COMMON)	REMEDY
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 player 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 this DVD Recorder and outer 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. Recheck 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, benzine, 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 this 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

- DVD, DVD+RW, DVD+R, DVD-RW, DVD-R, VCD, SVCD, CD-DA, Mixed CD-DA, MP3, WMA Audio CD, JPEG file disc and Kodak Picture Disc.

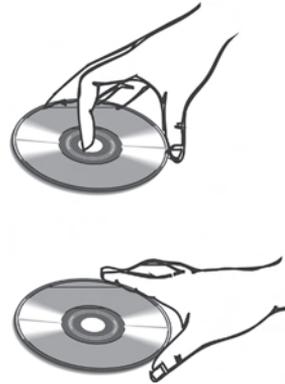
Recordable disc format

- DVD+RW (Application Programme)
- DVD+R

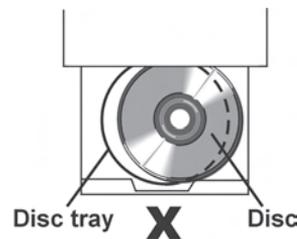
Maintenance

- 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, benzine, thinner, cleaning fluid or other chemicals. And do not use compressed air to remove dust.

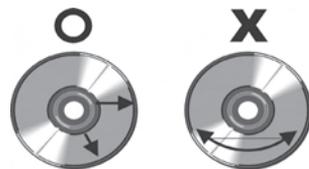
(A)



(B)



(C)





6-3 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

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

These refer to 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).

DVD has a structure consisting of two 0.6 mm thin discs which are adhered to each other. Since the thinner the disc, the higher the density at which the information can be recorded, a DVD disc has a greater capacity than a single 1.2 mm thick disc. Since the two thin discs are adhered to each other, there is the potential to achieve double-sided play sometime in the future for even longer duration play.

DVD+R

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

DVD+RW

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

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.

Time Digit

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.