

HITACHI

Inspire the Next

DVD/VCR Combo (DVD PLAYER with VIDEO CASSETTE RECORDER)

INSTRUCTION MANUAL

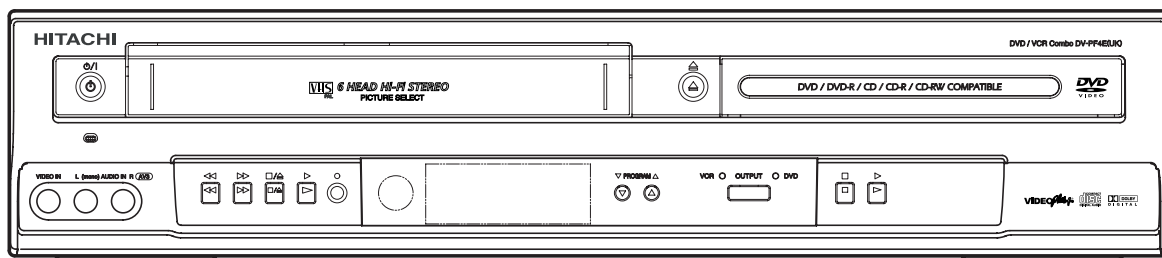


VIDEO Plus+ and PlusCode are registered trademark of Gemstar Development Corporation. The VIDEO Plus+ system is manufactured under licence from Gemstar Development Corporation.



MODEL

DV-PF4E(UK)



Instruction manual

To obtain the best performance and ensure years of trouble-free use, please read this instruction manual completely.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION:

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



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

PRECAUTIONS

A NOTE ABOUT RECYCLING

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

Power Supply

The main power supply is engaged when the main plug is plugged in a 220-240V~ 50Hz AC outlet. To operate the unit, press **⏻/I** (Standby/Power ON)) to turn on the unit.

Warning

TO AVOID THE HAZARDS OF ELECTRICAL SHOCK AND FIRE

- 1) Do not handle the power cord with wet hands.
- 2) Do not pull on the power cord when disconnecting it from AC wall outlet. Grasp it by the plug.
- 3) If, by accident, water is spilled on your DVD/VCR, unplug the power cord immediately and take the unit to our Authorized Service centre for servicing.
- 4) Do not put your fingers or objects into the DVD/VCR cassette holder.
- 5) Do not expose this unit to rain or moisture.

WARNING: LIVE PARTS INSIDE. DO NOT REMOVE ANY SCREWS.

Dew Warning

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, or after heating a cold room or under conditions of high humidity. Do not use the DVD/VCR at least for 2 hours until its inside is dry.

Caution

- 1) Do not attempt to open the cabinet. There are no parts you can service inside. Refer all servicing to qualified service personnel.
- 2) Slot and openings in the cabinet and at the side or bottom are provided for ventilation. To ensure reliable operation and to protect the unit from overheating these opening must not be blocked or covered. Avoid enclosed spaces such as book cases unless proper ventilation is provided.
- 3) Keep the unit away from the radiator heat sources.
- 4) Avoid using near strong magnetic fields.
- 5) Do not push objects of any kind into this through the cabinet slot as they could touch current carrying parts or short circuit parts resulting in a fire or electric shock.
- 6) Never spill liquid of any kind on this unit.
If liquid is spilled into the unit, consult qualified service engineer.
- 7) Use this unit in a horizontal (flat) position only.
- 8) This equipment is in Stand-by mode when it turns off whilst the power cord is connected.
- 9) Do not place anything directly on top of the DVD/VCR. Do not place the DVD/VCR directly on top of the TV.

Laser Safety

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

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

CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM.

LOCATION: * PRINTED ON THE BACK

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
KLASS 1 LASER APPARAT
CLASSE 1 PRODUIT LASER

PRECAUTIONS

Declaration of Conformity

This product complies with the requirement of the directives

EMC-Directive: 89 / 336 / EEC
Low Voltage Directive: 73 / 23 / EEC
CE Marking: 93 / 68 / EEC

EN 55013:2001
EN 55020:2002
EN 61000-3-2: 2000
EN 61000-3-3:1995+A1:2001
EN 60065:1998
EN 60825:1994+A2:2001

declare that the DVD/VCR player
DV-PF4E(UK)

are in compliance with following norms:

About Copyright

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited.

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.

CONNECTION TO POWER (For the area of Great Britain)

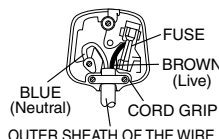
Before Switching on make sure that the voltage of your electricity supply is the same as that indicated on the rating plate.

Mains Cord

This appliance 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 is lost or damaged, the plug must not be used until a replacement available from the appliance manufacturer is obtained. It is important that the colour of the replacement fuse cover corresponds with the rating marking on the base of the plug. If the plug has 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 removed must be disposed of safely as insertion into a 13A socket is likely to cause an electrical hazard. For your own safety read the following instructions carefully before attempting to connect this unit to mains. The wires in this mains lead are coloured in accordance with the following code: BLUE=NEUTRAL, BROWN=LIVE

Important

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed 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. No connection is to be made to the earth terminal of the plug. If a 13 Amp (BS 1363) Plug is used, a 3 Amp Fuse must be fitted, of if any other type of Plug is used a 3 or 5 Amp Fuse must be fitted, either in the Plug or Adaptor, or on the Distribution Board. Mains Supply: 220 - 240 V ~50 Hz - AC only Do not make any connection to the larger pin marked with the letter "E" or by the symbol \perp or coloured green or green and yellow.



The serial number of this product may be found on the back of the DVD/VCR. No others have the same serial number as yours. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft. Serial numbers are not kept on file.

Date of Purchase		Dealer Phone No.	
Dealer Purchase from		Model No.	
Dealer Address		Serial No.	

INTRODUCTION

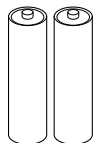
Supplied Accessories

Remote control

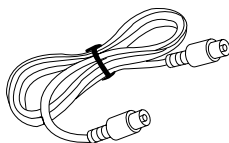


DV-RMPF4E(UK)
(TS18864)

Two AA
batteries



Aerial Cable



75 ohm (TE15231)

Symbols Used in this Manual

As shown on the right symbols appear below in some headings and notes in this manual, with the following meanings!

DVD : Description refers to playback of DVD video discs.

CD : Description refers to playback of audio CDs.

QUICK : Description refers to the items to be set in the QUICK mode.

TABLE OF CONTENTS












■ PRECAUTIONS	2	■ PLAYING A DISC	23
Power Supply	2	Basic Playback	23
Warning	2	General Features	23
Dew Warning	2	Disc Navigation	23
Caution	2	Pause	23
Laser Safety	2	Disc Menus	23
Declaration of Conformity	3	Title Menu	23
About Copyright	3	CALLING UP A MENU SCREEN DURING PLAYBACK	23
■ CONNECTION TO POWER (For the area of Great Britain)	3	Step by Step Playback	23
■ INTRODUCTION	3	Resume	24
Supplied Accessories	3	Fast Forward / Reverse Search	24
Symbols Used in this Manual	3	Slow Forward / Slow Reverse	24
■ ABOUT THE DISCS	5	Zoom	24
Playable Discs	5	Track Search	24
Unplayable Discs	5	Title / Chapter Search	24
■ FEATURES	6	Time Search	24
■ DVD/VCR SWITCHING	7	Repeat	24
■ FUNCTIONAL OVERVIEW	7	REPEAT TITLE / CHAPTER	24
FRONT PANEL	7	REPEAT TRACK	25
REAR PANEL	8	A-B REPEAT	25
Display	8	Program Playback	25
Displays During Operation	8	Random Playback	25
Remote Control	9	Audio Language	26
Loading the Batteries	9	Stereo Sound Mode	26
Tour of the remote control	10	Subtitle Language	26
■ CONNECTIONS	12	Camera Angle	26
DVD/VCR to TV Connection	12	Changing the On-Screen Display	26
Other Connections	12	Ratings Control	27
Connection to an Audio System	13	RATING LEVEL	27
Connection to a TV (for DVD/VCR)	14	IF YOU FORGET THE PASSWORD	27
■ HI-FI STEREO SOUND SYSTEM	15	CONTROL LEVELS	27
Selecting the Sound Mode	15	Marker Setup Screen	27
■ PRESET FOR USE	15	■ DVD SETUP	28
Video Channel Setting	15	Audio Setting	28
Setting the Clock	16	Virtual Surround	28
■ TUNING	16	Display Setting	28
Automatic Tuning	16	Language Setting	29
Manual Tuning	17	To Return All Selections of SETUP (except for RATINGS CONTROL) to their Default Settings	29
To Skip a Preset Channel	17	■ TROUBLESHOOTING GUIDE	30
Channel Order	17	■ SPECIFICATIONS	31
■ PLAYBACK FUNCTION	18	■ MAINTENANCE	31
Normal Playback	18	■ BATTERY SAFETY GUIDELINES	32
Auto Repeat Playback	18	■ SUBSIDIARY INFORMATION	33
Picture Select	18		
Search Functions	18		
■ RECORDING FUNCTION	19		
Normal Recording	19		
OTR (One Touch Recording)	19		
Timer Recording	19		
Hints for Timer Recording	20		
Timer Recording using the VIDEO Plus+® System	20		
PDC (Programme Delivery Control)	21		
Auto Return	21		
Copying a video tape	21		
A Status Display	22		
TV Colour System	22		
Auto Rewind	22		
Real Time Tape Counter	22		

ABOUT THE DISCS

Playable Discs

The following discs can be played back on this DVD/VCR.

- *Depending on the types or the writing method of the medium, some discs can not be played.
- Some DVD-R or CD-R/RW discs made on personal computers, or on DVD recorders may not be played back properly due to factors such as scratches, dirt or special properties of the disc.
- Discs made on personal computers may not be played back properly due to different environments or the settings of the application you use. We recommend always to use the standardized, properly formatted discs. (Please contact your Hitachi dealer for more detail).
- Some discs include region codes as shown below.
- The number inside the symbol refers to a region of the world, and a disc encoded in a specific region format can only be played back on DVD/VCR with the same region code.

Playable discs	Mark (logo)	Region code	Recorded signals	Disc size	Disc types
DVD-Video * 1,2,4,6	 	 or 	Digital video (MPEG2)	12 cm or 8cm	 Example Title 1 Chapter 1 Chapter 2 Chapter 3 Chapter 4 Title 2 Chapter 1 Chapter 2
DVD-R * 1,2,3,4,5,6	 	—			
Audio CD * 4,6		—	Digital audio	12 cm or 8cm	 Example Track 1 Track 2 Track 3 Track 4 Track 5 Track 6
CD-R CD-RW * 4,5,6	 	—			

If you cannot play back a disc which bears one of the marks above, check the following notes.

- *1: This unit conforms to the PAL colour system. Also you can play discs recorded with the NTSC colour systems via a PAL system TV set.
- *2: Certain DVD-Video discs do not operate as described in this manual due to the intentions of the disc's producers.
- *3: Only the discs which have been recorded in the video format and finalized can be played back.
Discs unfinalized or recorded in the video recording format cannot be played back.
Depending on the recording status of a disc, the disc may not be played back at all or normally (the picture or sound may be not be smooth, etc.).
- *4: Scratched or stained discs may not be played back.
- *5: Some discs cannot be played back because of incompatible recording conditions, characteristics of the recorder or special properties of discs.
- *6: You can play back discs which bear the marks above. If you use nonstandardized discs, this unit may not play them back. Even if they are played back, the sound or video quality will be compromised.

Unplayable Discs

- On the following discs, only the sound can be heard (picture cannot be viewed).

CDV

CD-G

- NEVER play back the following discs. Otherwise, malfunction may result!

CD-I

DVD with region codes other than 2 or ALL

DVD-RAM

DVD-ROM for personal computers

Photo CD

CD-ROM for personal computers

Video CD

- On the following disc, the sound MAY NOT be heard.

Super Audio CD

Note: Only the sound recorded on the normal CD layer can be delivered.

The sound recorded on the high density Super Audio CD layer cannot be delivered.

- Any other discs without compatibility indications.

DVD Mode

- **Progressive Scan system**
- **Dolby Digital sound**
By connecting this DVD/VCR to a Multi-channel Dolby Digital decoder, you can enjoy high-quality 5.1ch Dolby Digital surround sound as heard in the movie theatres.
- **Pause/fast/slow/step playback**
- **Random playback for Audio CD**
- **Program playback for Audio CD**
- **DVD menus in a desired language**
- **Screen saver/Auto power-off functions**
The screen saver program starts when there is no input from the DVD/VCR for five minutes in the stop mode. When the screen saver program is activated for 30 minutes, the power is automatically turned off.
- **Subtitles in a desired language**
- **Selecting a camera angle**
- **Choices for audio language and sound mode**
- **Ratings Control**
- **Automatic detection of discs**
This DVD/VCR automatically detects if a loaded disc is DVD or Audio CD.
- **Direct Search**
- **On-screen display**
Information about the current operation can be displayed on the TV screen, allowing you to confirm the currently active functions (such as program playback) by the remote control.
- **Search**
Chapter search / Title search / Track search / Time search
- **Repeat**
Chapter / Title / Track / All / A-B
- **Zoom**
- **Marker**
Electronic references point designated by user can be called back.
- **Disc Navigation**
Displays the first scenes of each chapter in a title.
- **Resume Play**
- **Virtual Surround**
- **EURO A/V (SCART)**
You can set SCART OUTPUT to RGB or S-VIDEO for video output.
- **MPEG sound**
This DVD/VCR can handle a disc that supports MPEG audio and the DVD/VCR is connected to a MPEG decoder.
- **Bit rate indication**
- **DRC (Dynamic range control)**
You can control the range of sound volume.

VCR Mode

Hardware specifications

- **AUDIO OUTPUT L/R jacks**
- **Auto Head Cleaner**
- **4 Head HiFi Stereo**
- **On screen Display**
- **PLL Synthesiser Tuner with 99 channels presettable**

Automatic functions

- **Auto power on system**
Automatically turns the VCR on when you insert the cassette.
- **Digital Auto Tracking (DTR)**

Playback

- **Auto Repeat**
- **2 Step Picture Search Operation**
- **Index Search**
- **Time Search**
- **Quick-Find**
- **NTSC Playback**

Recording

- **1 Year, 8 events (including Daily and Weekly Timer Recording)**
- **OTR (One Touch Recording)**
- **PDC (Programme Delivery Control)**

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

DVD / VCR SWITCHING

Since this product comprises DVD and VCR players, it is necessary to select the correct output mode.

SWITCHING TO DVD MODE

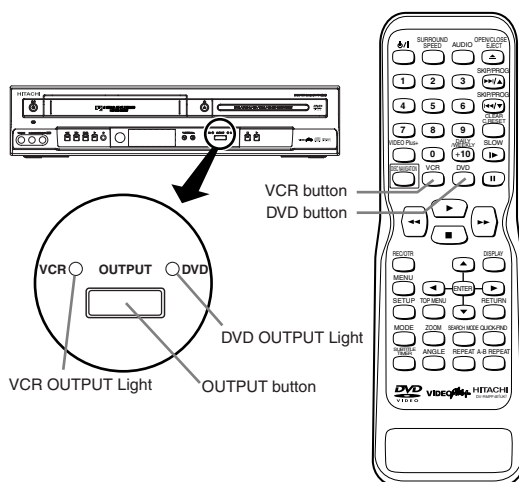
Press **DVD** on the remote control.
(Verify that the DVD OUTPUT Light is lit.)

SWITCHING TO VCR MODE

Press **VCR** on the remote control.
(Verify that the VCR OUTPUT Light is lit.)

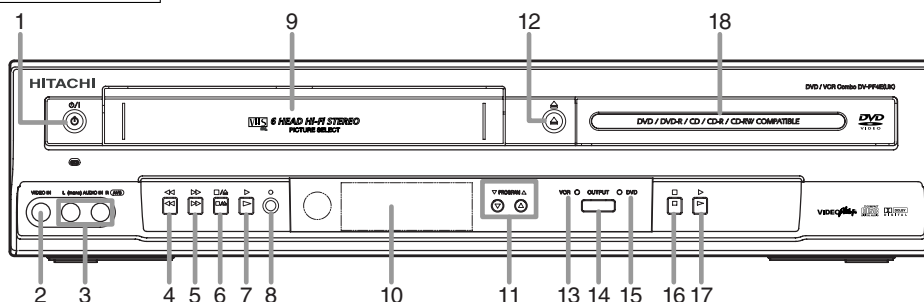
NOTE

- Pressing only **OUTPUT** on the front panel does not switch the mode of the remote control. You always need to select the correct mode on the remote control too.



FUNCTIONAL OVERVIEW

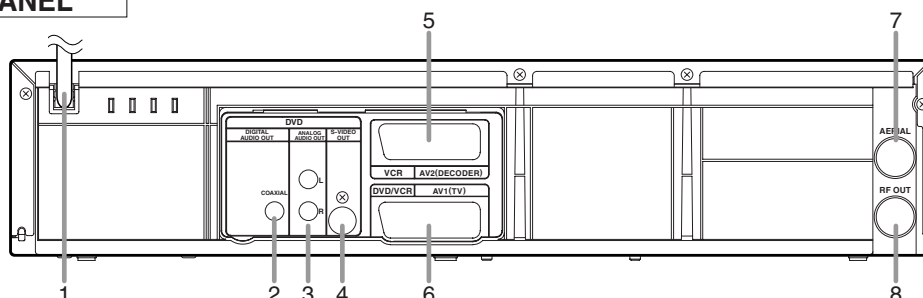
FRONT PANEL



- ⏻/I (POWER/STANDBY)**
Press to turn the power on and off.
(As to the indication of the Operate switch, "I" indicates ON and "⏻" indicates electrical power STANDBY.)
- VIDEO In Jack**
Connect a video cable coming from the video out jack of a camcorder, another VCR, or a video source (laser disc player, camcorder, etc.) here.
- AUDIO In Jacks**
Connect audio cables coming from the audio out jacks of a camcorder, another VCR, or an audio source here.
- ⏮ (REW) [VCR]**
Press to rewind the tape, or to view the picture rapidly in reverse during the playback mode (Rewind Search).
- ⏭ (F.FWD) [VCR]**
Press to rapidly advance the tape, or view the picture rapidly in forward during playback. (Forward Search).
- /▲ (STOP/EJECT) [VCR]**
STOP
Press to stop the tape motion.
EJECT
Press to remove the tape from the VCR.
- ▶ (PLAY) [VCR]**
Press to begin playback.
- (REC) [VCR]**
Press once to start a recording. Press repeatedly to start a One Touch Recording.
- CASSETTE COMPARTMENT**
- Display, Remote Sensor Window**
- PROGRAM (▲/▼) Buttons**
In VCR mode, press to change TV programmes on the VCR; press to adjust the tracking during normal or slow motion playback; press to remove vertical jitter in a Still picture.
- ▲ (OPEN/CLOSE) [DVD]**
Press to insert discs into or remove them from the tray.
- VCR OUTPUT Light**
This light appears when the VCR output mode is selected. You can only watch tapes when the green VCR OUTPUT light come on, VCR on the remote control or OUTPUT on the front panel.
- OUTPUT**
Press to select DVD mode or VCR mode.
You can switch the output mode either by pressing OUTPUT on the front panel, or by pressing DVD or VCR on the remote control. However, **if you press OUTPUT on the front panel first, you need to re-select the corresponding mode by pressing DVD or VCR on the remote control.**
- DVD OUTPUT Light**
This light appears when the DVD output mode is selected. You can only watch DVDs when the green DVD OUTPUT Light is on. To make the green DVD OUTPUT light come on, press DVD on the remote control or OUTPUT on the front panel.
- (STOP) [DVD]**
Stops operation of the disc.
- ▶ (PLAY) [DVD]**
Press to begin playback.
- Disc loading tray**

FUNCTIONAL OVERVIEW

REAR PANEL

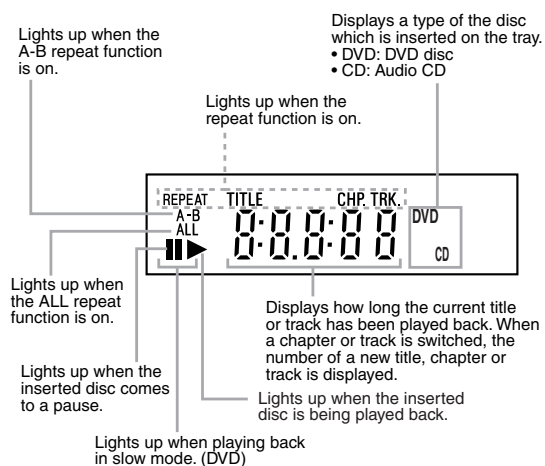


1. **MAIN (AC Power Cord)**
Connect to a standard AC plug.
2. **DIGITAL AUDIO OUT JACKS**
Use a coaxial digital cable to connect to a compatible Dolby Digital receiver. Use to connect to a Dolby Digital decoder or MPEG decoder.
3. **AUDIO OUT JACKS (ANALOG Left/Right)**
Connect to the Audio input jacks of A/V-compatible TV or wide screen TV, Stereo system.
4. **S-VIDEO OUT JACK (DVD Only)**
Use the S-Video cable to connect this jack to the S-Video jack on your A/V-compatible TV or wide screen TV for a higher quality picture.
5. **EURO AV2 (DECODER) JACK**
Use the Euro Audio/Video cable to connect this jack to the 21 pin scart jack on your decoder.
6. **EURO AV1 (TV) JACK**
Use the Euro Audio/Video cable to connect this jack to the 21 pin scart jack on your A/V-compatible TV or wide screen TV for a best quality picture.
7. **AERIAL Jack**
Connect your antenna, Cable Box, or Direct Broadcast System.
8. **RF OUT Jack**
Use the supplied aerial cable to connect this jack to the ANTENNA IN Jack on your TV.

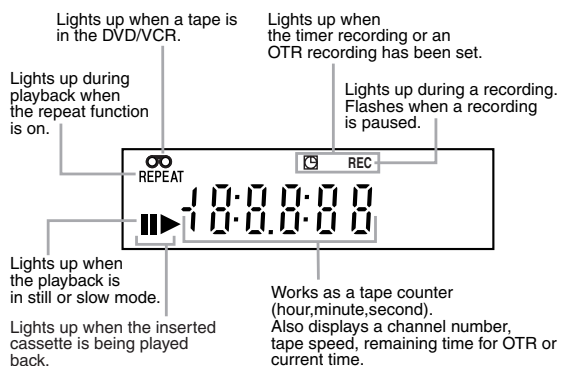
Caution: Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the DVD/VCR.

Display

DVD



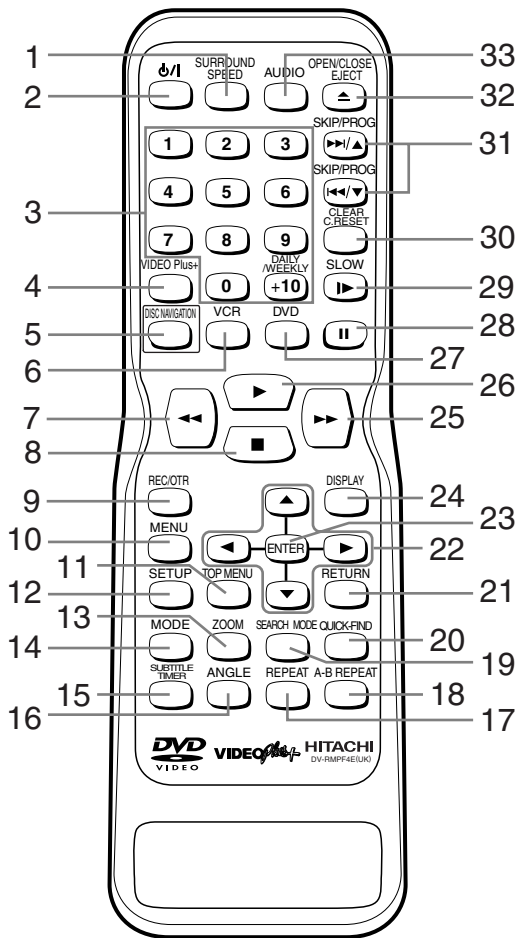
VCR



Displays During Operation

	No disc inserted or cannot read		Loading the Disc
	Tray open		When a disc is being played back
	Tray closed		

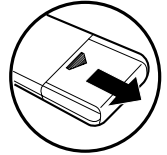
Remote Control



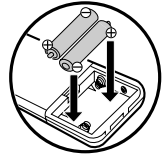
Details are on pages 10 and 11.

Loading the Batteries

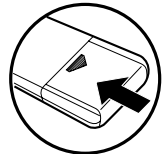
1. Open the battery compartment cover.



2. Insert two AA batteries, with each one oriented correctly.



3. Close the cover.



















Cautions On Batteries






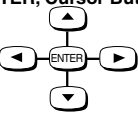









- Use "AA" (R6P) batteries in this remote control unit.
- Replace the batteries with new ones approximately once a year, though this depends on the frequency with which the remote control unit is used.
- If the remote control unit does not operate from close to the main unit, replace the batteries with new ones, even if less than a year has passed.
- The included battery is only for verifying operation. Replace it with a new battery as soon as possible.
- When inserting the batteries, be careful to do so in the proper direction, following the ⊕ and ⊖ marks in the remote control unit's battery compartment.
- To prevent damage or battery fluid leakage:
 - Do not use a new battery with an old one.
 - Do not use two different types of batteries such as alkaline and manganese.
 - Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- Remove the batteries when not planning to use the remote control unit for a long period of time.
- If the batteries should leak, carefully wipe off the fluid from the inside of the battery compartment, then insert new batteries.

Tour of the remote control

Buttons on remote control work in different ways for DVD, Audio CD and VCR:
Refer to the following table for correct use.

		DVD Mode	VCR Mode
1	SURROUND/ SPEED Button 	<ul style="list-style-type: none"> To activate virtual surround. 	<ul style="list-style-type: none"> To select the recording speed.
2	POWER/STANDBY Button 	<ul style="list-style-type: none"> Turns the DVD/VCR on and off. 	<ul style="list-style-type: none"> Turns the DVD/VCR on and off.
3	Number Buttons 	<ul style="list-style-type: none"> To select chapter or title directly. (DVD) To select track directly. (CD) 	<ul style="list-style-type: none"> To select channel. To set the VIDEO Plus+ number. <p>DAILY / WEEKLY button</p> <ul style="list-style-type: none"> Use when you record using VIDEO Plus+ system.
4	VIDEO Plus+ Button 	—	<ul style="list-style-type: none"> To programme timer recording with the VIDEO Plus+ system.
5	DISC NAVIGATION Button 	<ul style="list-style-type: none"> The first scenes of each chapter of the title being played will be displayed. (DVD) 	—
6	VCR Button 	—	<ul style="list-style-type: none"> To select the VCR output mode. To use the remote control in VCR mode.
7 25	SEARCH Buttons 	<ul style="list-style-type: none"> Allows you to search forward/backward through a disc. To begin slow forward/backward through a disc. (DVD) 	<ul style="list-style-type: none"> Press to call up the index or time search menu.
8	STOP Button 	<ul style="list-style-type: none"> To stop playback. 	<ul style="list-style-type: none"> To stop playback or record.
9	RECORD/ONE-TOUCH-RECORDING Button 	—	<ul style="list-style-type: none"> To start a recording. To start One Touch Recording.
10	MENU Button 	<ul style="list-style-type: none"> Brings up the Menu on a disc. (DVD) 	<ul style="list-style-type: none"> Brings up the VCR Menu.
11	TOP MENU Button 	<ul style="list-style-type: none"> Brings up the Top Menu on a disc. (DVD). 	—
12	SETUP Button 	<ul style="list-style-type: none"> Brings up the DVD player's Setup menu. 	—
13	ZOOM Button 	<ul style="list-style-type: none"> To magnify part of picture x2/x4. (DVD) 	—
14	MODE Button 	<ul style="list-style-type: none"> To set virtual surround on/off. To arrange the playing order or play randomly. (CD) 	—
15	SUBTITLE/TIMER Button 	<ul style="list-style-type: none"> Accesses various subtitles on a disc. (DVD) 	<ul style="list-style-type: none"> Press to put the VCR into standby mode for a timer recording.
16	ANGLE Button 	<ul style="list-style-type: none"> Accesses various camera angles on a disc. (DVD) 	—

Tour of the remote control

		DVD Mode	VCR Mode
17	REPEAT Button 	<ul style="list-style-type: none"> Allows you to repeat play a chapter or title. (DVD) Allows you to repeat play a track or all. (CD) 	—
18	A-B REPEAT Button 	<ul style="list-style-type: none"> Marks a segment to repeat between A and B. (DVD/CD) 	—
19	SEARCH MODE Button 	<ul style="list-style-type: none"> To search chapter or title. (DVD) To search track. (CD) To search time. (DVD/CD) To rapidly return to a location of disc. Search the markers. (DVD/CD) 	<ul style="list-style-type: none"> Allows you to search forward/backward through a tape.
20	QUICK-FIND 	—	<ul style="list-style-type: none"> To search and confirm the contents of the recorded programme(s).
21	RETURN Button 	<ul style="list-style-type: none"> Returns to a previous menu. (DVD) 	—
22 23	ENTER, Cursor Buttons 	<ul style="list-style-type: none"> Moves the cursor and determines its position. 	<ul style="list-style-type: none"> Moves the cursor and determines its position. Cannot use the ENTER button.
24	DISPLAY Button 	<ul style="list-style-type: none"> Displays the current disc mode. 	<ul style="list-style-type: none"> Displays the current time, tape counter, channel.
26	PLAY Button 	<ul style="list-style-type: none"> Begin disc play. 	<ul style="list-style-type: none"> Begin tape playback.
27	DVD Button 	<ul style="list-style-type: none"> To select the DVD output mode. To use the remote control in DVD mode. 	—
28	PAUSE/STEP Button 	<ul style="list-style-type: none"> Pause disc play. Advances playback one frame at a time. (DVD) 	<ul style="list-style-type: none"> Pause tape playback or recording. Advances playback one frame at a time.
29	SLOW Button 	—	<ul style="list-style-type: none"> To view the tape in slow motion.
30	CLEAR/C.RESET Button 	<ul style="list-style-type: none"> Clear the markers. Clear the number that is entered incorrectly. Removes status No. in programme input. (CD) 	<ul style="list-style-type: none"> To reset the tape counter.
31	SKIP/PROG Buttons 	<ul style="list-style-type: none"> To skip chapters. (DVD) To skip tracks. (CD) 	<ul style="list-style-type: none"> Press to control the TV programmes. To adjust the tracking manually during playback.
32	OPEN/CLOSE/EJECT Button 	<ul style="list-style-type: none"> To open or close the disc tray. 	<ul style="list-style-type: none"> Press to eject the video cassette from the VCR.
33	AUDIO Button 	<ul style="list-style-type: none"> Accesses various audio functions on a disc. (DVD) To select STEREO, L-CH or R-CH. (CD) 	<ul style="list-style-type: none"> To select STEREO, L-CH R-CH or normal.

CONNECTIONS

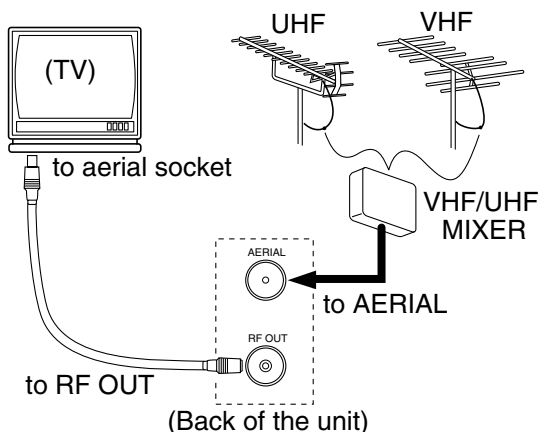
The following show examples of connections commonly used to connect the DVD/VCR to TV and other components.

NOTES

- Be sure to turn off the power to all components in the system before connecting another component.
- Refer to the Instruction Manuals for your TV, stereo system and any other components to be connected to the DVD/VCR.

DVD/VCR to TV Connection

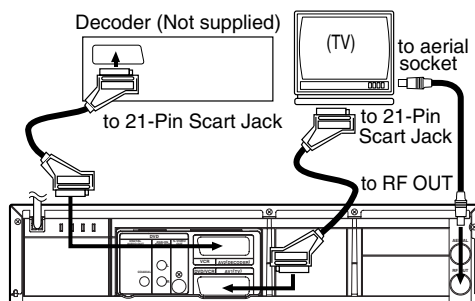
1. Disconnect the TV's power cord from the AC outlet.
2. Disconnect the VHF/UHF TV aerial cable from the TV.
3. Connect the VHF/UHF TV aerial cable to the DVD/VCR.
4. Connect the DVD/VCR to the TV using the coaxial cable.
5. Plug the Power cords of the DVD/VCR and TV into the AC outlets.



Other Connections

EURO SCART (AV) SOCKETS

Your DVD/VCR is provided with two Scart sockets which you may connect to other external devices with Scart sockets. We recommend this connection to ensure a better audio and picture quality. NICAM stereo sound is only achieved when using a SCART lead.



Euro Scart cables are obtainable at your dealer.

AV1 (TV) CONNECTION TO TV

If your TV has Scart sockets, you may connect your DVD/VCR's AV1 (TV) scart socket to the Scart socket on the back of your TV. Please see the instruction manual for your TV.

AV2 (DECODER) CONNECTION FOR OTHER EXTERNAL DEVICES

The second Scart socket AV2 (DECODER) is designated for other external devices, e.g. decoder, another VCR, video camera and so on.

NOTE:

- If you want to connect a TV with Scart socket to your DVD/VCR, the TV must be connected to the DVD/VCR through AV1 (TV). A connection to AV2 (DECODER) will not function correctly.

EXTERNAL INPUT MODE

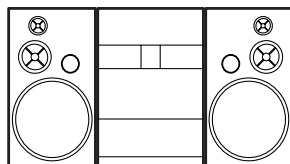
To receive the signal from an external input (decoder, video camera, another VCR etc.), connect to the AV2 (DECODER) socket, and press PROG (▲/▼) or enter "002" with the **number buttons** to show "AV2" on the TV screen. ("L2" will appear on the DVD/VCR display panel.)

If you use the AV1 (TV) socket, press PROG (▲/▼) or enter "001" with the **number buttons** to appear "AV1" on the TV screen. ("L1" will appear on the DVD/VCR display panel.)

If you use the front AUDIO/VIDEO In Jacks, press PROG (▲/▼) or enter "003" with number button to show "AV3" on the TV screen. ("L3" will appear on the DVD/VCR display panel.)

Connection to an Audio System

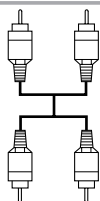
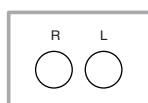
Method 1



Stereo system

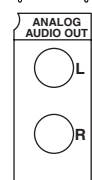
AUDIO

Audio Input Jacks



DVD/VCR

Analog Audio Out



Method 2

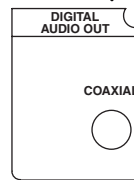


Dolby Digital decoder
or MPEG decoder

Digital Audio Input
Jacks



Digital Audio Out



- **Method 1** DVD/VCR + Stereo system
- **Method 2** DVD/VCR + Dolby Digital decoder or MPEG decoder

NOTES

- If you use the Euro audio/video cable, it is not necessary to connect the analog audio cable.
- If output Dolby Digital audio, connect to a Dolby Digital decoder, and set "DOLBY DIGITAL" to "BITSTREAM" for audio output in the setup mode. (See page 28)
- If output MPEG audio, connect to a MPEG decoder, and set "MPEG" to "BITSTREAM" for audio output in the setup mode. (See page 28)
- Unless connected to a Dolby Digital decoder or an MPEG decoder, set "DOLBY DIGITAL" and "MPEG" to "PCM" for audio output in the setup mode. Playing a DVD using incorrect settings may generate noise distortion, and may also damage the speakers. (See page 28)
- The audio source on a disc in a Dolby Digital 5.1 channel surround format cannot be recorded as digital sound by an MD or DAT deck.

CONNECTIONS

Connection to a TV (for DVD/VCR)

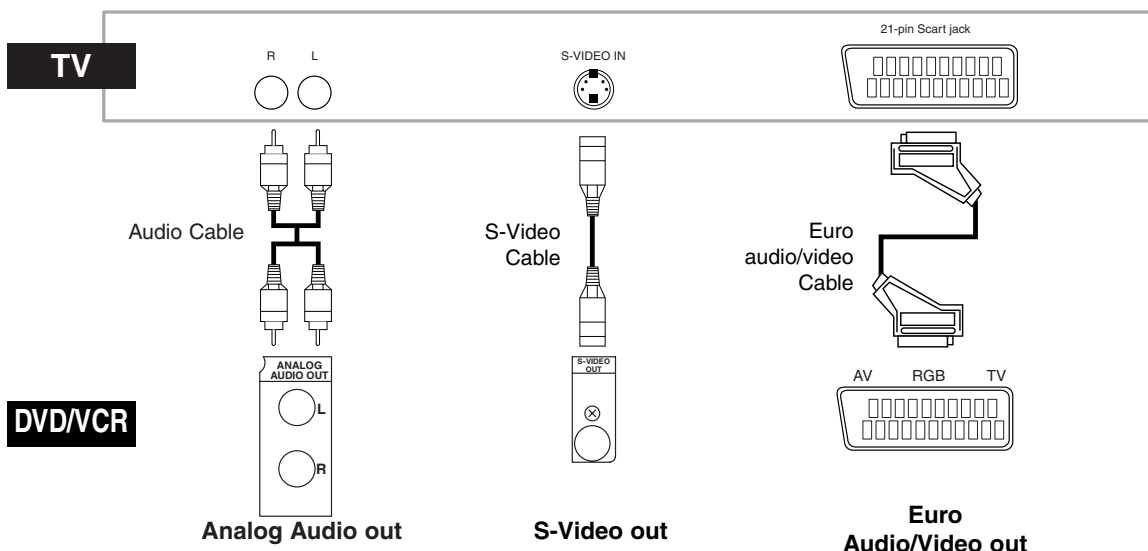
Method 1

Method 2

Basic Audio

Good picture

Better picture



- **Method 1** DVD/VCR + TV with S-Video Input Jack
- **Method 2** DVD/VCR + TV with AV1 Jack

NOTES

- **S-Video output connector**
The video signals are divided into colour (C) and brightness (Y) signals, achieving a clearer picture. If the TV is equipped with a S-Video input connector, we recommend connecting it to the this product's S-Video output connector using a commercially available S-Video connection cord.
- If you use the Euro A/V (SCART) jack, it is not necessary to connect the analog audio cable.
- Connect the DVD/VCR directly to a TV. If the A/V cables are connected to a VCR, pictures may be distorted due to the copy protection system.
- When your TV conforms to RGB input signal, the Euro AV (scart) connection ensures you the best picture and audio quality. However if your TV does not confirm to RGB input signal, the S-VIDEO OUT and analog AUDIO OUT connection is better. (for DVD features only)

HI-FI STEREO SOUND SYSTEM

This DVD/VCR will record and playback Hi-Fi stereo sound. In addition it has a NICAM stereo sound decoder. This equipment will receive stereo and bilingual broadcasts and there are several ways of recording and playing back the sound.

Selecting the Sound Mode

VCR

You can select each mode by pressing AUDIO on the remote control. Each mode is indicated on the TV screen as following.

- During playback of the recorded tape in Hi-Fi mode:
- Reception of stereo broadcasts:
- During reception of bilingual broadcasts:

Mode			AUDIO OUTPUT	Display on the TV screen	Mode	AUDIO OUTPUT		Display on the TV screen	Mode	AUDIO OUTPUT		Display on the TV screen
Stereo	L	Hi Fi L Audio	STEREO	Stereo	L	L Audio	STEREO	MAIN	L	Main Audio	MAIN	
	R	Hi Fi R Audio			R	R Audio			R	Main Audio		
L	L	Hi Fi L Audio	LEFT	L	L	L Audio	LEFT	SUB	L	Sub Audio	SUB	
	R	Hi Fi L Audio			R	L Audio			R	Sub Audio		
R	L	Hi Fi R Audio	RIGHT	R	L	R Audio	RIGHT	MAIN SUB	L	Main Audio	MAIN SUB	
	R	Hi Fi R Audio			R	R Audio			R	Sub Audio		
Normal	L	Normal Audio	- None -	Monaural	L	L+R Audio	- None -					
	R	Normal Audio			R	L+R Audio						

NOTES:

- If you play non-Hi-Fi tapes, the DVD/VCR will play automatically in monaural even if you select any mode.
- If the stereo signal becomes weak, the broadcast is automatically recorded in monaural.

PRESET FOR USE

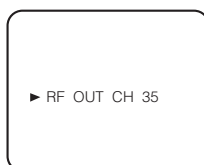
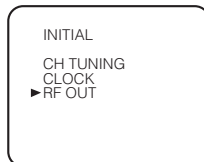
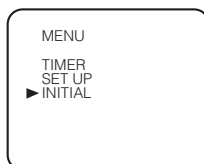
Video Channel Setting

VCR

Skip this section when connected by SCART.

Video channel setting will be necessary, if your DVD/VCR is connected to the TV via the aerial cable.

- Use the remote control for this procedure.
- 1** Insert a pre-recorded tape into the DVD/VCR.
- The DVD/VCR will turn on and start playback automatically. If playback does not start, press ► (PLAY).
- 2** Select and adjust your TV to channel 35.
- If the playback picture appears on the TV screen, continue with step **3**.
- If channel 35 is employed for broadcasting, or interference lines appear on the picture, the RF converter must be set to a different channel between CH22 and CH69. Continue with step **3**.
- 3** Press **MENU**.
- 4** Press ▲ or ▼ repeatedly to select "INITIAL", then press ►.
- 5** Press ▲ or ▼ repeatedly to select "RF OUT", then press ►.
- The RF OUT CH menu will appear.
- 6** Press ▲ or ▼ repeatedly to select a channel which is not used for broadcasts between channel 22 and channel 69 in your area, then press ►.
- 7** Press **MENU** to exit.
- Set the TV channel to the RF OUT CHANNEL which was selected on the DVD/VCR. A picture from the DVD/VCR will appear on the TV screen. If a picture does not appear, repeat steps **3** to **7** using a different channel which is not used for broadcasts.
- 8** Press ■ to stop the tape.



NOTES:

- You may also access the RF OUT CH menu by pressing and holding **MENU** on the remote control for 3 seconds during power off until the RF OUT CH menu appears.
- If your DVD/VCR and TV are connected using a SCART cable there is no need to have the RF converter operating so it can be switched off and avoid the possibility of interference. To switch off the RF converter, follow the instructions for Video Channel Setting to step **6** then select channel 22 first and then press ▼ so that "--" appears next to "RF OUT CH" on the TV screen and finally press **MENU** to finish.

PRESET FOR USE

Setting the Clock

VCR

This DVD/VCR incorporates a 24-hour clock. The clock must be set for the Automatic Timer Recording function to operate correctly.

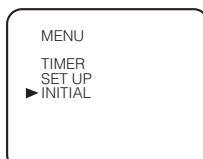
Your DVD/VCR is fitted with PDC (Refer to page 21). If the PDC signal is available in your area, your DVD/VCR can get the current time from your local PDC broadcast. It keeps track of the time constantly referring to the time broadcasted by your PDC broadcast. If you want to use this feature, refer to "Auto Clock Setting" in the next section.

- Use the remote control for this procedure.

Manual Clock Setting

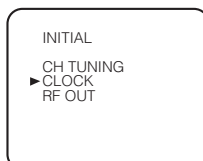
1 Press **MENU**.

2 Press **▲** or **▼** to select "INITIAL", then press **▶**.



3 Press **▲** or **▼** to select "CLOCK", then press **▶**.

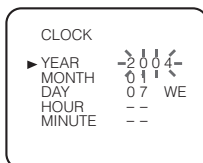
4 Press **▲** or **▼** to select "MANUAL", then press **▶**.



5 Press **▲** or **▼** until the relevant year appears, then press **▶**.

6 Likewise, set the relevant month, day, hour, and minute.

7 Press **MENU** to start the clock.



NOTES:

- In the steps **5** and **6**, you can go back to the item you want to correct by pressing **▶**.
- Although seconds are not displayed, they begin counting from 00 when you exit by pressing **MENU**. Use this feature to synchronise the clock with the correct time.
- When unplugging the power-cord or if there is a power failure for more than thirty seconds, you may have to reset the clock.

Auto Clock Setting

1 Follow the steps through 1 to 3 in "Manual clock setting".

2 Press **▲** or **▼** to select "AUTO", then press **▶** to select "ON".

3 Turn off the DVD/VCR once by pressing **⏻** (Standby/Power ON).

- The clock will appear on the TV screen when you turn on the DVD/VCR again.

NOTES:

- Channel Presetting must be set before the Auto Clock is set.
- The DVD/VCR refers to the channel which was memorised into position 01.
- The PDC channel must therefore be set to position 01.
- The clock cannot be set automatically if you are not receiving a channel that carries a time signal in your area. In this case, set the clock manually.
- Once the auto clock setting is performed, the DVD/VCR will correct the current time by receiving PDC broadcasts whenever you turn off the DVD/VCR.
- The DVD/VCR will correct the current time automatically at 8:00, if the DVD/VCR's power is turned off.
- Between 23:00~1:00, the AUTO CLOCK function does not work even if the DVD/VCR's power is turned off.

TUNING

Tuning of broadcast channels not already preset in the DVD/VCR can be performed in two ways.

AUTOMATIC TUNING

- By "AUTOMATICALLY" tuning channels and placing them in sequential order in the DVD/VCR's memory i.e. the first channel found will be memorised into the DVD/VCR's channel position 1, the second channel found will be memorised into the DVD/VCR's channel position 2 and so on.
- Execution of the "Automatic" tuning cancels all the preset channels. DO NOT use this feature if you intend to use some of the pre-tuned channels. Use the "Manual" tuning function to tune in the additional channels you require.

MANUAL TUNING

- Each channel is tuned manually and individually. Follow the steps laid out in the "Manual tuning" section.

Before you preset Channel ...

- It is necessary to set the video channel if your DVD/VCR is connected to the TV via the aerial cable, and TV channel 35 is employed for broadcasting, or interference lines appear on the picture. Please refer to "Video Channel Setting".

Automatic Tuning

VCR

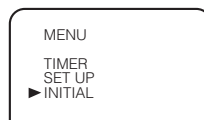
You can programme the tuner to scan only the channels that you can receive in your area.

- Use the remote control for this procedure.

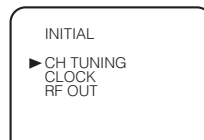
1 Turn on the TV and select the TV channel to the video channel on the TV.

2 Press **MENU**.

3 Press **▲** or **▼** to select "INITIAL", then press **▶**.



4 Press **▲** or **▼** to select "CH TUNING", then press **▶**.

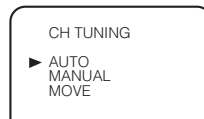


5 Press **▲** or **▼** to select "AUTO", then press **▶**.

- The tuner scans and memorises all the active channels in your area. After scanning, the tuner stops on the lowest memorised channel.

- Sorting of TV channels from P01 to P06 will be performed automatically as follows
P01: BBC1 P02: BBC2 P03: ITV
P04: CH4 P05: CH5 * (P06: Sky News)

*If you are using a satellite receiver, turn it on and select Sky News before connecting turning.



To Select a Desired Channel

You can select a desired channel by using the PROG (**▲** or **▼**), or directly pressing the **number buttons** on the remote control.

- Enter a channel numbers as a two-digit number for the quickest results. For example, to select channel 6, press 0 and 6. If you only press 6, channel 6 will be selected after a brief delay.
- You can only select channels 1-99.

Manual Tuning

VCR

- Use the remote control for this procedure.

1 Press **MENU**.

2 Press **▲** or **▼** to select "INITIAL", then press **▶**.

MENU
TIMER
SET UP
▶ INITIAL

3 Press **▲** or **▼** to select "CH TUNING", then press **▶**.

INITIAL
▶ CH TUNING
CLOCK
RF OUT

4 Press **▲** or **▼** to select "MANUAL", then press **▶**.

CH TUNING
▶ AUTO
MANUAL
MOVE

5 Press **▲** or **▼** to select "POSITION", then press **▶**.

- When a weak signal is received in Manual Tuning mode, you can change the background to solid blue or the static screen by pressing **CLEAR/C.RESET**.

MANUAL
▶ POSITION
CHANNEL
DECODER
SKIP
-P08-
008
[OFF]
[OFF]

6 Press the **number buttons** or (**▲** or **▼**) to select your desired position number, then press **▶**.

- You can select position number 01-99.
- If "ON" appears on the right side of "SKIP", press **▲** or **▼** to point to "SKIP". Then, press **▶** to select "OFF".
- If you want to remove scrambled signals, press **▲** or **▼** repeatedly to point to "DECODER". Then, press **▶** to select "ON".

7 Press **▲** or **▼** to select "CHANNEL", then press **▶**.

8 Press **▲** or **▼** to start scanning.

- The DVD/VCR tuner will begin to search up or down automatically. When a channel is found, the DVD/VCR will stop searching and the picture will appear on the TV Screen.
- You can select desired channel number by using the **number buttons**. You must refer to the following channel plan table and press three digits to select the channel number. (To select channel 24, first press "0" and then press "2" and "4").

Channel Plan	
CH Indication	TV Channel
01 – 10	IRA-IRJ, GAP
21 – 69	E21 – E69
74 – 78	S01, S02, S03, X, Y
80 – 99,100	S1 – S20,GAP
121 – 141	S21 – S41

This DVD/VCR can receive Hyper and Oscar frequency bands.

- If this is the channel you want, press **▶**.

9 Press **MENU** to exit.

NOTE:

- To confirm that a channel has been added, press **PROG** (**▲** or **▼**).

To Skip a Preset Channel

VCR

The channels you can no longer receive or seldom watch can be set to be skipped when you access channels **PROG** (**▲** or **▼**).

- Use the remote control for this procedure.

1 Press **MENU**.

2 Press **▲** or **▼** to select "INITIAL", then press **▶**.

MENU
TIMER
SET UP
▶ INITIAL

3 Press **▲** or **▼** to select "CH TUNING", then press **▶**.

INITIAL
▶ CH TUNING
CLOCK
RF OUT

4 Press **▲** or **▼** to select "MANUAL", then press **▶**.

CH TUNING
▶ AUTO
MANUAL
MOVE

5 Press **▲** or **▼** to select "POSITION", then press **▶**.

- When a weak signal is received in Manual Tuning mode, you can change the background to solid blue or the static screen by pressing **CLEAR/C.RESET**.

6 Press the **number buttons** or (**▲** or **▼**) to select relevant position number, then press **▶**.

7 Press **▲** or **▼** to select "SKIP", then press **▶** to select "ON".

- To memorise the channel again, press **▶** "ON" will change to "OFF".

MANUAL
POSITION P08
CHANNEL 008
DECODER [OFF]
▶ SKIP [ON]

8 Press **MENU** to exit.

NOTE:

- To confirm that a channel has been deleted, press **PROG** (**▲** or **▼**).

Channel Order

VCR

You can arrange the channels in any order you want as follows.

- Use the remote control for this procedure.

1 Press **MENU**.

2 Press **▲** or **▼** to select "INITIAL", then press **▶**.

MENU
TIMER
SET UP
▶ INITIAL

3 Press **▲** or **▼** to select "CH TUNING", then press **▶**.

INITIAL
▶ CH TUNING
CLOCK
RF OUT

4 Press **▲** or **▼** repeatedly to select "MOVE", then press **▶**.

CH TUNING
▶ AUTO
MANUAL
MOVE

5 Press **▲** or **▼** repeatedly to select the position number you want to change the channel, then press **▶**.

- You cannot select a position number where "---" appears next to the number. This is because SKIP is set to "ON" for this position number.

- When a weak signal is received in Channel Order mode, you can change the background to static blue by pressing **CLEAR/C.RESET**. If you press the button again, the background will return to the static screen.

MOVE
P01: 02 P06: 07
P02: 03 P07: 08
▶ P03: [04] P08: 09
P04: 05 P09: 10
P05: 06 P10: 11
Position Number Channel Number

6 Press **▲** or **▼** repeatedly until the channel move to another position number, then press **▶**.

7 Press **MENU** to exit.

MOVE
P01: 02 P06: 07
P02: 03 P07: 08
P03: 11 P08: 09
P04: 05 P09: 10
P05: 06 ▶ P10: [04]

PLAYBACK FUNCTION

Normal Playback

VCR

- 1 Insert a prerecorded tape. The DVD/VCR will turn on.
 - If the safety tab has been removed, the VCR will start playback automatically.
 - If a cassette is in DVD/VCR, STOP symbol appears in TV screen when turning on the DVD/VCR(VCR mode).
- 2 Turn on the TV and select the video channel on the TV.
- 3 Begin playback by pressing ► (PLAY).
 - Tracking adjustment will be done automatically (Digital Tracking function) when you start playback. To adjust the tracking manually, press **PROG** (▲ or ▼) on the remote or **PROGRAM** (▲ or ▼) on the DVD/VCR.
 - When a tape has reached the end, the VCR will rewind the tape to the beginning and eject the tape automatically.
- 4 To stop playback, press ■.
 - If no corresponding symbols appear on the display when you press buttons such as ►, ●, ►► or ◀◀, that means no cassette tape is in the DVD/VCR. Please insert a tape.

Counter Reset

- You can reset the counter by pressing **CLEAR/C.RESET** on the remote control.

STILL/SLOW

You can freeze the picture on TV screen by pressing || during playback.

- You can advance the picture one frame at a time by pressing || during the Still mode.
- When the picture begins to vibrate vertically, stabilize the picture by pressing **PROG** (▲ or ▼) in the STILL mode.
- You can watch in the slow motion by pressing **SLOW** during playback or the still mode. (The DVD/VCR mutates the sound during slow motion. You can control the speed by pressing ►► or ◀◀.)
- If a noise bar appears on the TV screen, you can reduce it by pressing **PROG** (▲ or ▼).
- After the DVD/VCR has been in Still/Slow mode for 5 minutes, it will stop automatically to protect the tape and the video head from damage.
- To return to playback, press ► (PLAY).

Auto Repeat Playback

VCR

This feature allows you to play a tape over and over.

- 1 Press **MENU**.
- 2 Press ▲ or ▼ to select "SETUP", then press ►.
- 3 Press ▲ or ▼ to select "AUTO REPEAT", then press ►.
- 4 Begin auto repeat playback by pressing ► so that "ON" appears next to "AUTO REPEAT".
 - When in Stop mode, Auto Repeat mode will start automatically.
 - If the On screen menu still remains, press **MENU** to exit the menu.
 - To cancel the Auto repeat mode, press ► at step 4 "OFF" will appear next to "AUTO REPEAT" on the TV screen.
 - Once you select the Auto Repeat mode, it stays in effect even after you turn off the DVD/VCR.

Picture Select

VCR

This function enables you to select the picture quality of a tape.

- Use the remote control for this procedure.

- 1 Press **MENU**.
- 2 Press ▲ or ▼ to select "SETUP", then press ►.

MENU
TIMER
SET UP
INITIAL

- 3 Press ▲ or ▼ to select "PIC-TURE", then press ►.
- 4 Press ► until the desired mode (NORMAL, SOFT, or SHARP) is indicated on the TV screen.

- If the On screen menu still remains, press **MENU** to exit the menu.
- Once you select the Picture Select mode, it stays in effect even after you turn off the DVD/VCR.

SET UP

AUTO RETURN [ON]
AUTO REPEAT [ON]
► PICTURE [NORMAL]

Search Functions

VCR

PICTURE SEARCH

If you want to skip or repeat a scene during playback, press ►► or ◀◀.

- Press it again and the VCR will now search at super high speed. (This function will not work for a NTSC tape).
- Press ► (PLAY) to return to normal playback.

QUICK-FIND

This function enables you to search and confirm the contents of the recorded programme(s) using the index mark.

- Use the remote control for this procedure.
- The tape must be fully rewound.

- 1 Press **QUICK-FIND** to skip to the beginning of next programme.
- 2 Press ► (PLAY) to view at normal speed.
The Quick-Find is cancelled.

NOTES:

- This function will not operate in the Recording mode.
- When you want to cancel the Quick-Find while in progress, press ■.
- When the end of a tape is reached during the Quick-Find, the tape will automatically rewind to the beginning. After rewinding finishes, the DVD/VCR will eject the tape.

INDEX SEARCH

- The index mark will be made automatically when ● is pressed. It will also be marked at the starting point of Timer recording and OTR.
- The index mark is not recorded if || is pressed and released during recording.
- The time gap between index marks on the tape should be greater than 1 minute for SP recording and 2 minutes for LP recording.
- Use the remote control for this procedure.

- 1 Press **SEARCH MODE** so that the Index Search menu appears.

- 2 Enter the number of recordings you wish to skip by pressing ▲ or ▼ within 30 seconds.

- 3 Press ◀ or ► to start index search.

The DVD/VCR begins rewinding or fast forwarding to the beginning of desired programme. When the preset programme is reached, the DVD/VCR will start playback automatically.

- If you want to go in the forward direction, press ►. If you want to go in the reverse direction, press ◀.
- If you want to stop search function, press ■.
- After index search, the VCR will play the tape automatically.

NOTES:

- Index Search can be set up to 20.
- This function will not operate in the Recording mode.
- Operations must be followed up within 30 seconds, from step 2 to 3. Otherwise the Index Search mode will be cancelled.
- To exit the Index Search mode, press **MENU** step 2.

TIME SEARCH

This feature allows you to go to a specific point on a tape by entering the exact amount of time you wish to skip in order to reach the point.

- Use the remote control for this procedure.

- 1 Press **SEARCH MODE** twice so that the Time Search menu appears.

INDEX 03

PLAYBACK FUNCTION

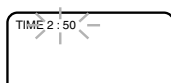
2 Enter your desired time to skip by pressing ▲ or ▼ within 30 seconds.

3 Press ◀ or ▶ to start time search.

The DVD/VCR begins rewinding or fast forwarding to the specified point.

When 0:00 is reached, the DVD/VCR will start playback automatically.

- If you want to go in the forward direction, press ▶.
- If you want to go in the reverse direction, press ◀.
- If you want to stop search function, press ■.
- After time search, the VCR will play the tape automatically.



NOTES:

- Time search can be set up to 9 hours 59 minutes (9:59).
- This function will not operate in the Recording mode.
- Operations must be followed up within 30 seconds, from step **2** to **3**. Otherwise the Time Search mode will be cancelled.
- To exit the Time Search mode, press **MENU** in step **2**.

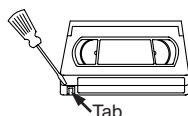
RECORDING FUNCTION

VCR

It may be UNLAWFUL to record copyrighted material without the consent of the copyright owner.

This DVD/VCR will operate with any cassette that bears the VHS mark. For best results, we recommend the use of high-quality tapes. Do not use poor quality or damaged tapes.

- You can prevent accidental erasing of a recording by breaking off the erase prevention tab on the back edge of the cassette.
- If you decide to record on the tape again, cover the hole with plastic tape.



TWO DIFFERENT TAPE SPEEDS

Before recording, select the tape speed : SP mode (Standard Play) or LP mode (Long Play).

The table below shows the maximum recording/playback time using E-60, E-120, E-180 or E-240 tapes in each mode.

TYPE OF TAPE	RECORDING/PLAYBACK TIME	
	SP MODE	LP MODE
E-60	1 HOUR	2 HOURS
E-120	2 HOURS	4 HOURS
E-180	3 HOURS	6 HOURS
E-240	4 HOURS	8 HOURS

Normal Recording

VCR

1 Insert a cassette tape with its erase-prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

2 Press the **number buttons** or **PROG** (▲ or ▼) to select the channel to be recorded.

3 Press **SPEED** to select the tape speed (SP/LP).

4 Press **REC/OTR** (●) to begin recording.

- The "REC" on the display comes on.
 - To temporarily stop recording or to resume it, press ■.
- After the DVD/VCR has been in Pause mode for 5 minutes, it will stop automatically to protect the tape and the video head from damage.

5 Press ■ when recording is completed.

NOTE:

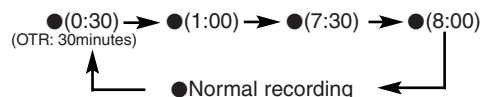
- When you wish to watch another programme while recording, select desired channel on your TV.

OTR (One Touch Recording)

VCR

This feature allows you to set the recording length simply by pressing **REC/OTR** (●).

1 Press **REC/OTR** (●) to begin OTR. The REC, TIMER Light comes on. Change the recording length by pressing **REC/OTR** (●) repeatedly.



- To check time remaining during an OTR, press **DISPLAY**.
- To change the recording length during an OTR, press **REC/OTR** (●) repeatedly until the desired length appears.
- To stop an OTR before recording is finished, press ■.
- To cancel the OTR but continue recording, press **REC/OTR** (●) repeatedly until "●" appears in the upper left corner of the TV screen.
- If a tape ends during OTR, the VCR will stop, eject the tape, and switch to the DVD mode automatically as the **TIMER** light blinks. (If the DVD power is off, the VCR will become **STANDBY** status).
- When OTR is finished, the DVD/VCR turns off automatically. To use the VCR again, press **TIMER** on the remote, or **STOP/EJECT** ▲ on the DVD/VCR.

Timer Recording

VCR

You may programme the DVD/VCR to start and end a recording while you are away. You can set eight programmes to record on specific days, daily or weekly within a 1 year period.

- Use the remote control for this procedure.
- Insert a cassette tape with its erase prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

1 Press **MENU**.

2 Press ▲ or ▼ to select "TIMER", then press ▶.

MENU
▶ TIMER
SET UP
INITIAL

NOTES:

If you have not set the clock yet, "CLOCK" setting menu appears. If so, follow the steps outlined in the "Setting the Clock" section. Then, set the timer.

- When you press ▶ after pressing (▲ or ▼) or during steps **3** to **10**, the input mode will move to the next step.
- If you do not press ▶ within 5 seconds of setting an item, the input mode will move to the next step.
- Press ◀ to go back one step from the current setting during steps **4** to **10**. If ◀ is pressed when the **TIMER NUMBER** is flashing, the entire programme contents will be erased.

3 Programme number flashes. Press ▲ or ▼ repeatedly until the desired programme number appears, then, press ▶.

▶ TIMER NUMBER
DATE
START
END
CHANNEL
SPEED
PDC

4 Select once, daily, everyday, or weekly recording.

For once-only recording: Press ▲ or ▼ repeatedly until the relevant month appears.

For daily recording: To record a TV programme at the same time on the same channel from Monday through Friday. While the month digit is flashing, press ▲ or ▼ repeatedly to select "MO-FR".

For everyday recording: To record a TV programme at the same time on the same channel every day. While the month digit is flashing, press ▲ or ▼ repeatedly to select "MO-SU".

RECORDING FUNCTION

For weekly recording: To record a TV programme at the same time on the same channel every week. While the month digit is flashing, press ▲ or ▼ repeatedly to select "W-MO" (Example: every monday).

- 5** For once-only recording only : Press ▲ or ▼ repeatedly until your desired day appears.
 - 6** Press ▲ or ▼ repeatedly until the relevant start hour appears. Next, enter the minute digit.
 - 7** Press ▲ or ▼ repeatedly until the relevant end hour appears. Next, enter the minute digit.
 - 8** Press ▲ or ▼ repeatedly until the relevant channel number appears.
 - 9** Press ▲ or ▼ repeatedly until your the desired tape speed appears.
 - 10** Press ▲ or ▼ repeatedly to set PDC "ON" or "OFF".
 - The Programme Delivery Control (PDC) is a very convenient system which assures that the TV programmes you have programmed for timer recording will be recorded exactly from beginning to end (Refer to page 21).
 - 11** Press ►. Programme 1 is now completed.
 - 12** Press **MENU** to exit.
- To set another timer programme, repeat steps **3** to **11**.
- 13** Press **TIMER** to activate the timer.
 - **TIMER** light comes on.
 - As **REC** light comes on the DVD/VCR becomes **STANDBY** status, and switches to DVD mode automatically.
 - When all timer recordings are finished, **REC** light will flash. To use the DVD/VCR again as usual, press **TIMER** to disable the flashing **REC** light, then Press **DVD** or **VCR** to choose DVD or VCR mode, then continue with the other features as described in this manual.

Hints for Timer Recording

VCR

- If there is a power failure or the DVD/VCR is unplugged for more than 30 seconds, the clock setting and all timer settings will be lost.
- If a tape ends during **TIMER RECORDING**, the DVD/VCR will stop, eject the tape, and switch to the DVD mode automatically as the **REC** light blinks. (If the DVD power is off, the VCR will become **STANDBY** status).
- If a tape is not in the DVD/VCR or does not have a safety tab, the **REC** light flashes and timer recording will not operate. Please insert a recordable tape.
- When all timer recordings are finished, the **REC** light will flash. To use the DVD/VCR again as usual, press **TIMER** to disable the flashing **REC** light, then press **VCR** to select the VCR mode. Select either VCR or DVD mode, then continue with the other features as described in this manual.
- When timer recordings are set, the **REC** light will come on. To use the DVD/VCR as usual until the time for the recording, press **TIMER** so that **REC** light disappears. Press **VCR** to choose the VCR mode. Select either VCR or DVD mode, then continue with the other features as described in this manual.
- In timer standby mode, VCR feature does not function.
- To exit timer standby mode, press **TIMER**. The **REC** light disappears and you can operate the VCR.

If you want to use the DVD/VCR during a VCR timer recording or while the **TIMER light is on or flashes.**

- You can use the DVD/VCR while the **REC** light is on or flashes, or during a timer recording. Press **⏻** to turn on the DVD/VCR. Press **DVD** on the remote control to choose DVD mode, then continue with the other DVD features as described in this manual. You don't have to set the **TIMER** off to use the DVD only.

TO STOP AN AUTOMATIC TIMER PROGRAMME ALREADY STARTED

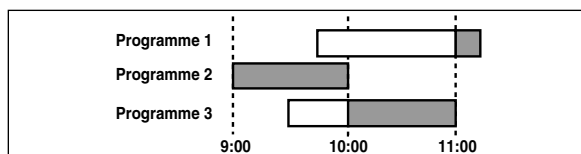
Press **■/▲** on the DVD/VCR.

TO CHECK, CORRECT, OR CANCEL AN AUTOMATIC TIMER PROGRAMME

- 1** Press **TIMER**.
 - If the VCR's power is off, press **⏻** instead of **TIMER**, then go on to the next step.
 - If the DVD output mode is selected, you have to switch it to the VCR mode by pressing the **VCR** on the remote control or the **OUTPUT** on the DVD/VCR.
- 2** Repeat steps 1 to 3 in the "Timer recording" section.
- 3** Select the programme number you want to check by pressing ▲ or ▼.
 - The details of the selected programme appears on the TV screen.
 - Go to the digit you want to change by pressing ◀ or ▶. Then, enter correct numbers by pressing Arrow ▲ or ▼.
 - You may cancel the entire programme by pressing ◀ while the programme number flashes.
- 4** Press **MENU** to exit.
- 5** Press **TIMER** to return to timer stand-by mode.

TO AVOID OVERLAP OF TIMER PROGRAMMES

A timer programme will not work whilst another programme is under execution.



Timer Recording using the VIDEO Plus+® System

VCR

You can programme the timer using the PlusCode programming numbers that are printed in TV guide magazine. You can set eight programmes to record.

- Use the remote control for this procedure.
- Insert a cassette tape with its erase prevention tab in place. (If necessary, rewind or fast forward the tape to the point at which you want to begin recording.)

- 1** Press the **VIDEO Plus+** button.
 - If you have not set the clock yet, "CLOCK" setting menu appears. If so, follow the steps outlined in the "Setting the clock" section. Then, set the timer.

VIDEO Plus+ system
PlusCode No.
⚡-----

- 2** Press the **number buttons** to set the PlusCode number of the programme you want to record.
 - Press ◀ to go back one digit from current digit while you set the PlusCode number.
- 3** Select once, daily, everyday, or weekly recording.

VIDEO Plus+ system
PlusCode No.
1 2 3 4 5 6 7 8 9

For once-only recording:

Press the **VIDEO Plus+** button.

For daily recording: To record a TV programme at the same time on the same channel from Monday through Friday. Press **DAILY/WEEKLY** repeatedly to select "DAILY (MO-FR)", then, press the **VIDEO Plus+** button.

For everyday recording: To record a TV programme at the same time on the same channel every day. Press **DAILY/WEEKLY** repeatedly to select "DAILY (MO-SU)", then, press the **VIDEO Plus+** button.

For weekly recording: To record a TV programme at the same time on the same channel every week. Press **DAILY/WEEKLY** repeatedly to select "WEEKLY", then, press the **VIDEO Plus+** button.

RECORDING FUNCTION

NOTES:

- If the PlusCode number is not available, it will be cleared automatically when you press the **VIDEO Plus+** button. Enter the correct PlusCode number and press the **VIDEO Plus+** button again.
- If the PlusCode number flashes when you press the **VIDEO Plus+** button, this means that the PlusCode number you entered was incorrect or the timer recording you just programmed and another timer recording overlap.

4 Confirm the channel number, then, press **▶**.

- If your local channel information is programmed in DVD/VCR's memory, your local channel number appears automatically.
- If your local channel information is not programmed in DVD/VCR's memory, "--" or an incorrect channel number may appear. In this case, press **▲** or **▼** repeatedly until your desired channel number appears. Then, press **▶**.
- When you select the channel number using **▲** or **▼** it memorises in DVD/VCR's memory.

5 Press **▲** or **▼** repeatedly until the desired tape speed appears.

6 Press **▲** or **▼** to choose "ON" or "OFF".

- The Programme Delivery Control (PDC) is a very convenient system which assures that the TV programmes you have programmed for timer recording will be recorded exactly from beginning to end (Refer to next column.).

7 Press **MENU** to exit.

8 Press **TIMER** to activate the timer. The REC light on the display comes on.

TIMER NUMBER	1
DATE	06/05 SA
START	19:30
END	20:30
CHANNEL	P10
SPEED	SP
PDC	OFF

TIMER NUMBER	1
DATE	06/05 SA
START	19:30
END	20:30
CHANNEL	P10
SPEED	SP
PDC	OFF

PDC (Programme Delivery Control)

VCR

The PDC system looks for the start signal several hours before published start time and for several hours afterwards. This means that if the programme is broadcast anytime during this period it will be recorded correctly. Please note that if you have set an incorrect Timer setting, it will stay in the memory until you cancel it (See page 20 for details on how to cancel a programme).

Auto Return

VCR

When timer recording is finished, the DVD/VCR will automatically rewind the tape to the beginning where it started recording. If there are any remaining programmes including Daily, Everyday, & Weekly, AUTO RETURN will not operate.

1 Press **MENU**.

2 Press **▲** or **▼** repeatedly to point to "SET UP", then press **▶**.

3 Press **▲** or **▼** to point to "AUTO RETURN", then press **▶**.
• [ON] will appear next to "AUTO RETURN".

4 Press **MENU** to exit.

TO WATCH THE RECORDED TIMER PROGRAMME

Press **TIMER** to cancel the Timer Stand-by. Then, select VCR mode by pressing **VCR** on your remote. Press **▶**.

Copying a video tape

VCR

You can make copies of videotapes made by friends or relatives for your own enjoyment.

WARNING:

Unauthorized recordings of copyrighted video tapes may be an infringement of copyright laws.

Connect the recording DVD/VCR (this unit), playing VCR (another VCR) and your TV as outline in the following diagram.

1 Insert a pre-recorded video cassette into the playing VCR.

2 Insert a blank video cassette, or one you want to record over, into the cassette compartment of the recording DVD/VCR.

3 Press **SPEED** on the remote control to select the desired recording speed (SP/LP).

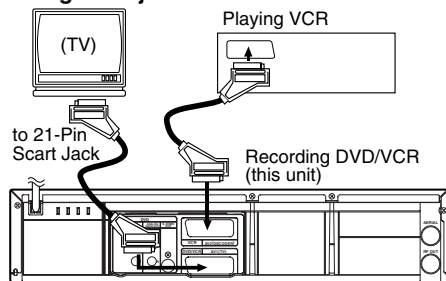
4 Select "AV2" or "AV3" position on the recording DVD/VCR. See "Other Connections" on page 12.

5 Press **REC/OTR** on the recording DVD/VCR.

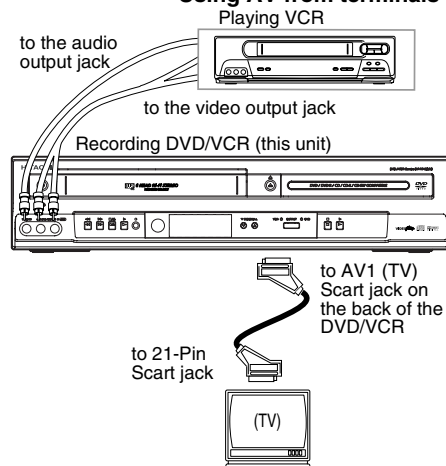
6 Begin playback of the tape in the playback VCR.

7 To stop recording, press **■** on the recording DVD/VCR, then stop playback of the tape in the playing VCR.

Using scart jacks



Using AV from terminals



NOTES:

- For best results during dubbing, use the DVD/VCR's front panel controls whenever possible. The remote control might affect the playback DVD/VCR's operation.
- If video or colour fades in and out, you may be copying a copy guarded video tape.

TO MONITOR THE RECORDING

Turn on the TV and select the video channel on the TV.

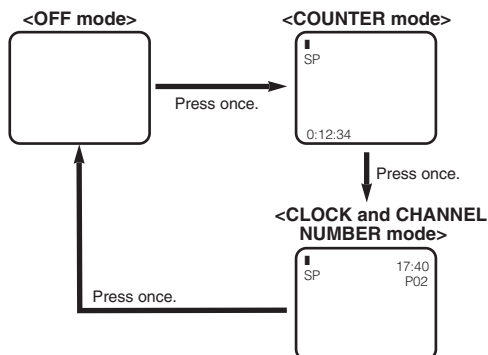
RECORDING FUNCTION

A Status Display

VCR

Press **DISPLAY** to check the Counter, or Clock & Channel number. Each time you press the **DISPLAY**, TV screen will change as illustrated:

When you select the channel using the remote control **number buttons**, select the desired channel (position number).



TV Colour System

VCR

Different countries use different television colour systems. Tapes recorded in the PAL or NTSC system can be played back on this unit. Usually, the picture on the TV screen will be in black and white when you play back a tape that is recorded in a different colour system.

- Tapes recorded in the NTSC system can be played back on this unit and a PAL system TV set. This feature is only available in the SP mode. When playing back such tapes, the picture may roll up or down, shrink vertically and black bars may appear both at the top and bottom of the screen. Adjust the vertical hold control on your TV, if the TV features this control.

Auto Rewind

When a tape reaches the end during recording, playback, or fast-forward, the tape will automatically rewind to the beginning. After rewinding finishes, the DVD/VCR will eject the tape.

- The DVD/VCR will not rewind the tape automatically during timer recording or One Touch Recording.

Real Time Tape Counter

- This shows the elapsed recording or playback time in hours, minutes, and seconds. (The displayed time will not change during blank portions of the tape. The front display of DVD/VCR will show in hour, minute only.)
- The ' ' indication will appear when the tape is rewound further than "0:00:00" on the tape counter.

PLAYING A DISC

Basic Playback

DVD

CD

Getting started

- Turn on the power of the TV, amplifier and any other components which are connected to the DVD/VCR.
- Make sure the TV and audio receiver (commercially available) are set to the correct channel.

1 Press **○/I**.

2 Press **OPEN/CLOSE** to open disc loading tray.

3 Place the chosen disc on the tray, with the label facing up.

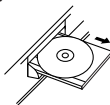
4 Press **▶ (PLAY)**.

- The tray will close automatically, and playback will then start from the first chapter or track of the disc. If the playback does not start automatically, press **▶ (PLAY)**.
- When you playback the DVD with a title menu, it may appear on the screen. In this case, refer to "Title Menu".

5 Press **■** to stop playback.

NOTES:

- A "prohibited icon" may appear at the top-right on the TV screen during operation, warning that a prohibited operation has been encountered by the DVD/VCR or the disc.
- With DVDs that use some titles for playback program signals, playback may start from the second title, or it may skip these titles.
- During the playback of two layered disc, pictures may stop for a moment. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction.



General Features

DVD

DVD may contain menus to navigate the disc and access special features. Press the appropriate **number buttons** or use **CURSOR buttons** (**▼/▲/▶/◀**) to highlight your selection in the DVD main menu and press **ENTER** to confirm.

NOTE:

- Unless stated, all operations described are based on remote control use. Some operations can be carried out using the menu bar on the TV screen.

Disc Navigation

DVD

1 Press **DISC NAVIGATION**.

- During title playback or when resume is on:

- A shot from each chapter including the one currently being played will be displayed on the screen.
- The chapter currently being played is selected in yellow.

- In STOP mode (resume off):

- The first scene of each chapter of the first title will be displayed.

2 Press **CURSOR buttons** (**▼/▲/▶/◀**) to select your desired chapter.

- Up to 6 chapters can be displayed at one time. If the title has more than 6 chapters, press **SKIP ▶▶** to go to the next page. Press **SKIP ◀◀** to go back to the previous page.

- You can change the title by moving up to the field where the title number is shown with **CURSOR button** (**▲**), and entering a title number of your choice.

3 Press **ENTER** or **▶ (PLAY)**.

- Playback of the selected chapter will start.

- Pressing **DISC NAVIGATION** before pressing **ENTER** or **▶ (PLAY)** at step **3** will cease the DISC NAVIGATION function, and the playback will be stopped. The resume information will be lost.
- When a disc menu is shown, the DISC NAVIGATION feature does not function.
- DISC NAVIGATION takes a few seconds to respond.
- With some discs, part of the DISC NAVIGATION screen may not be displayed properly. This is not a malfunction.
- Some discs do not support disc navigation feature.
- The sound is muted while DISC NAVIGATION is on the screen.
- It takes about 15 seconds to display 6 shots.

Pause

DVD

CD

1 During playback, press **II**.

- Playback will pause and sound will be muted.

2 To continue playback, press **▶ (PLAY)**.

NOTE:


- On DVDs, set "STILL MODE" to "FIELD" on the display menu if pictures in the pause mode are blurred. (Refer to page 28.)

Disc Menus

DVD

1 Press **MENU**.

- The DVD main menu will appear.

2 If the feature is not available,  symbol may appear on the TV screen.

3 If disc menu is available on the disc, audio language, subtitle options, chapters for the title and other options will appear for selection.


4 Press **CURSOR buttons** (**▼/▲/▶/◀**) to select an item, and **ENTER** to confirm selection.

Title Menu

DVD

1 Press **TOP MENU**.

- The title menu will appear.

2 If the feature is not available,  symbol may appear on the TV screen.

3 Press **CURSOR buttons** (**▼/▲/▶/◀**) to select an item, and **ENTER** to confirm selection.

- Playback will begin at the selected Title.

CALLING UP A MENU SCREEN DURING PLAYBACK

- Press **MENU** to call up the DVD main menu.
- Press **TOP MENU** to call up the title menu.

NOTE:

- Contents of menus and corresponding menu operations may vary between discs. Refer to the manual accompanying the disc for details.

Step by Step Playback

DVD

1 During playback, press **II**.

- Playback will pause and sound will be muted.

2 The disc advances by one frame each time **II** is pressed.

3 To exit step by step playback, press **▶**.

NOTE:

- On DVDs, set "STILL MODE" to "FIELD" on the display menu if pictures in the pause mode are blurred. (Refer to page 28.)

PLAYING A DISC

Resume

DVD

CD

- 1 During playback, press ■.
- 2 Press ► (PLAY), playback will resume from the point at which playback was stopped.
 - To cancel resume, press ■ twice.

NOTES:

- The resume playback takes a little longer to take place compared to the normal playback.
- The resume information stays on even when the power is turned off.

Fast Forward / Reverse Search

DVD

CD

- 1 During playback, press ►► or ◀◀ repeatedly to select the required forward or reverse speed.
 - For DVDs, fast forward or reverse search speed is different depending on the disc. Approximate speed is 1(x2), 2(x8), 3(x50), 4(x100).
 - For audio CDs, the approximate speed is x16.
- 2 To return to normal playback, press ► (PLAY).

Slow Forward / Slow Reverse

DVD

- 1 During playback, press ||.
 - 2 Press ►► or ◀◀.
 - Slow motion playback will begin and sound will be muted.
 - 3 Press ►► or ◀◀ repeatedly to select the required speed.
 - Slow forward or reverse speed is different depending on the disc. Approximate speed is 1(1/16), 2(1/8), 3(1/2).
 - 4 To return to normal playback, press ► (PLAY).
- NOTE:**
- On DVDs, set "STILL MODE" to "FIELD" on the Display menu, if pictures in the slow playback mode are blurred. (Refer to page 28.)

Zoom

DVD

The Zoom function allows you to enlarge the video image and to pan through the enlarged image.

- 1 Press ZOOM during playback.
 - Playback will continue.
- 2 Press ZOOM repeatedly to select the required zoom factor: x2, x4 or OFF.
- 3 Use CURSOR buttons (▼/▲/►/◄) to move the zoomed picture across the screen.
- 4 To exit zoom mode, press ZOOM.

NOTES:

- Zooming function does not work while disc menu is shown.
- x4 zoom is not available on some discs.

Track Search

CD

There are three ways to begin playback of an Audio CD at a specific Track.

Using the Number buttons

- 1 Press the **number buttons** to enter the desired Track number.
 - Playback will start at the selected track.
 - For single digit tracks (1-9), press a single number (eg. track 3, press 3).
 - To play track 26, press +10, 2, 6 on the **number buttons**.

Using the SEARCH MODE

- 1 Press **SEARCH MODE**.
 - The Track search display appears.
- 2 Within 30 seconds, select a desired track number using the **number buttons**. For single digits press 0 first if the total track of the disc is more than 10 tracks.
 - Playback will start at the selected track.

Using the SKIP ◀◀▶▶

During playback, press **SKIP** ►► to move to the next track. Press it repeatedly to skip subsequent tracks. Press **SKIP** ◀◀ to go back to the beginning of the current track. Press it repeatedly to go to the previous tracks.

- Track number will appear briefly on the front display panel.
- If any **SKIP** is pressed while the playback is paused, the playback will be paused again after skipping to the next track.

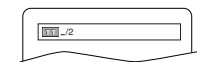
NOTE:

- **SKIP** ◀◀▶▶ are not available when playback is stopped.

Title / Chapter Search

DVD

- 1 Press **SEARCH MODE** once for the Chapter search, twice for the Title search during playback.
- 2 Enter the desired chapter/title number using the **number buttons**.



Time Search

DVD

CD

- 1 Press **SEARCH MODE** repeatedly until the Time Search appears during playback.
- 2 Within 30 seconds, enter a desired disc time using the **number buttons**.
 - Playback will start at the specified time.
 - Press **CLEAR** to erase the incorrect input.

NOTE:

- For Time Search, "0" appears automatically when there is no need to enter a number. For example, "0:0 _ _" appears in the Time Search display if the total time of the disc is less than 10 minutes.

Repeat

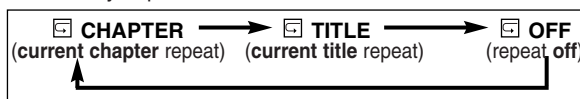
- **REPEAT** is available only during playback.

REPEAT TITLE / CHAPTER

DVD

To activate the repeat function, press **REPEAT** during playback.

- The repeat mode changes as described below every time you press the button.



PLAYING A DISC

NOTES:

- Repeat Title/Chapter is not available on some scenes.
- The REPEAT setting will be cleared when moving to other titles or chapters.

REPEAT TRACK

CD

To activate the repeat function, press **REPEAT** during playback.

- The repeat mode changes as described below every time you press the button.



NOTES:

- The repeat setting will be cleared by moving to another track.
- Repeat playback does not function during A-B repeat playback.

A-B REPEAT

DVD

CD

- 1 Press **A-B REPEAT** at your chosen starting point.
 - “A-” appears briefly on the TV screen.
- 2 Press **A-B REPEAT** again at your chosen end point.
 - “A-B” appears briefly on the TV screen, and the repeat sequence begins.
- 3 To exit the sequence, press **A-B REPEAT**.

NOTES:

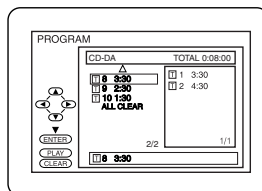
- The A-B repeat section can only be set within the current title (for DVDs), or current track (for Audio CDs).
- A-B Repeat is not available with some scenes in DVD.
- To cancel the A point which was set, press **CLEAR**.
- A-B Repeat playback does not function during title, chapter, track or all repeat playback.

Program Playback

CD

You may determine the order in which tracks will play.

- 1 In stop mode press **MODE**.
 - The PROGRAM screen will appear.
- 2 Press **▲** or **▼** to select a track, then press **ENTER**.
 - Press **CLEAR** to erase the most recently entered program.
- 3 Press **▶ (PLAY)** to play the programmed tracks.



NOTES:

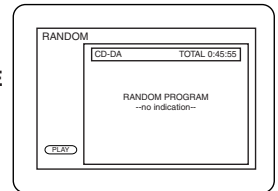
- Press **■** once and then **▶ (PLAY)**, playback will restart from the point where **■** was pressed. (Program continued)
- Press **■** twice and then **▶ (PLAY)**, playback will restart from the track in the usual way. (Program cleared)
- Up to 99 programs can be entered.
- To repeat the current track in the program, press **REPEAT** repeatedly until “TRACK” appears during playback. To repeat the entire program press **REPEAT** repeatedly until “ALL” appears during playback.
- To erase all programs at once, select ALL CLEAR and press the **ENTER** button at step 2.

Random Playback

CD

This shuffles the order of tracks instead of playback of in the original sequence.

- 1 In STOP mode, press **MODE** twice.
 - RANDOM screen appears.
- 2 Press **▶ (PLAY)** to start random playback.



NOTE:

- To repeat the current track in the random selection, press **REPEAT** repeatedly until “TRACK” appears during playback. To repeat the entire random selection press **REPEAT** repeatedly until “ALL” appears during playback.

Audio Language

DVD

The DVD/VCR allows you to select a specific language during DVD disc playback when multiple languages are available.

- 1 Press **AUDIO** during playback.
- 2 Press **AUDIO** repeatedly to select your desired language.

NOTES:

- If your language is not shown after pressing **AUDIO** several times, the disc may not have that language. However, some discs allow you to change audio language setting in the disc menu. (Operation varies depending on the disc, so refer to the manual included in the disc.)
- If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Audio language setting. If you choose any other languages, "---" will be displayed instead. (Refer to page 29.)

Stereo Sound Mode

CD

- 1 Press **AUDIO** repeatedly during playback to select between "STEREO", "L-CH" or "R-CH".

STEREO - both right and left channels are active

L-CH - only left channel is active

R-CH - only right channel is active

NOTES:

- If the Virtual Surround setting is "1" or "2", the sound mode will be fixed to STEREO, and can not be changed.

Subtitle Language

DVD

The DVD/VCR allows you to select a language for subtitle (if available) during DVD disc playback.

- 1 Press **SUBTITLE** during playback.
- 2 Press **SUBTITLE** repeatedly to select your desired subtitle language.
 - The selected language will be displayed on the display bar at the top of the screen.
- 3 To turn off subtitles, press ◀ or ▶ until "OFF" appears.

NOTES:

- If your language is not shown after pressing **SUBTITLE** several times, the disc may not have that language. However, some discs allow you to change subtitle language setting in the disc menu. (Operation varies depending on the disc, so refer to the manual included in the disc.)
- If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Subtitle language setting. If you choose any other languages, "---" will be displayed instead. (Refer to page 29.)

Camera Angle

DVD

Some DVD discs contain scenes which have been shot simultaneously from various angles. You can change the camera angle when the (CAM) mark appears on the screen. If the "ANGLE MARK" setting is "OFF" in the Display setting, the (CAM) icon will not appear. (Refer to page 28.)

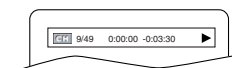
- 1 Press **ANGLE** during playback.
 - The selected angle will be displayed on the display bar at the top of the screen.
- 2 Press **ANGLE** repeatedly to select your desired angle.

Changing the On-Screen Display

DVD

You can check information about the current disc by pressing **DISPLAY** on the remote control.

- 1 Press **DISPLAY** during playback to show current Chapter.
 - The elapsed and remaining time of the current chapter will be displayed.
- 2 Press **DISPLAY** again to show current title.
 - The elapsed and remaining time of the current title will be displayed.
- 3 Press **DISPLAY** again.
 - The BIT RATE and the current repeat setting will be displayed.
 - If you are playing a dual layered disc, the layer number will also be displayed (L0: Layer 0 is playing. L1: Layer 1 is playing).
- 4 Press **DISPLAY** again to remove the display.



CD

- 1 Press **DISPLAY** during playback, the current track will be displayed on the TV screen.
 - The elapsed and remaining time of the current track will be displayed.
- 2 Press **DISPLAY** again to show the total time of the disc.
 - The elapsed and remaining time of the current total track will be displayed.
- 3 Press **DISPLAY** again to remove the display.

Ratings Control

DVD

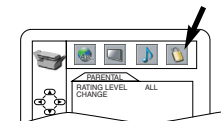
Ratings Control provides limits for DVDs with extreme violence or adult themes. (A password you establish will override the limits.)

This feature allows you to prevent discs with objectionable scenes from being played by your children.

RATING LEVEL

Rating Level allows you to set the rating level of your DVDs. Playback will stop if the disc's ratings exceed the level you set.

- 1** Press **SETUP** in STOP mode.
- 2** Press ◀ or ▶ to select "CUSTOM", then press **ENTER**.
 - CUSTOM menu will appear.
- 3** Press ◀ or ▶ to select "PARENTAL", then press **ENTER**.
- 4** Enter your four-digit password then press **ENTER**.
- 5** Press ▲ or ▼ to select "RATING LEVEL", then press **ENTER**.
- 6** Press ▲ or ▼ to select the desired level, then press **ENTER**.
- 7** Press **SETUP** to exit.



NOTES:

- When doing this for the first time, enter any 4 digits except for 4737. That number will be used as the password from the second time onward.
- To change the password, press ▲ or ▼ to select "CHANGE" at step **5**, then press **ENTER**. Enter the four-digit password, then press **ENTER**.
- With some DVDs, it may be difficult to find if they are compatible with rating level. Be sure to check if the rating level function operates in the way that you have set.
- Record the password in case you forget it.

IF YOU FORGET THE PASSWORD

- 1** Press **4, 7, 3, 7** at step **4**.
 - Password will be cleared and Rating Level will be set to "ALL".
- 2** Repeat steps **4-7** to re-establish the Ratings Control.

CONTROL LEVELS

- **ALL**
Parental lock is cancelled.
- **Level 8**
DVD software of any grade (adult/general/children) can be played back.
- **Levels 7 to 2**
Only DVD softwares intended for general use and children can be played back.
- **Level 1**
Only DVD softwares intended for children can be played back, with those intended for adult and general use prohibited.

Marker Setup Screen

DVD

CD

Use markers to memorise your favourite places on a disc.

- 1** Press **SEARCH MODE** repeatedly until the Marker Setup Screen appears during playback.
 - The display screen and Markers will appear on the TV screen.
- 2** Ensure that "- : - : -" appears in the display, and press ◀ or ▶ to select the number of the marker (1~10).
- 3** When you reach the desired point, press **ENTER**.
 - The Title or Track and elapsed playing time will appear on the TV screen.
- 4** To return to a Marker later, press **SEARCH MODE** repeatedly until the Marker Setup Screen appears during playback and ◀ or ▶ to choose the desired marker, then press **ENTER**.

NOTES:

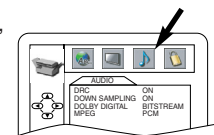
- Opening the disc tray, turning off the unit, or selecting AC (All clear) followed by **ENTER** at step **2** will erase all markers.
- To clear a marker, using ◀ or ▶, position the cursor on to the marker number to be cleared and press **CLEAR**.
- You can mark up to 10 points.
- 5** Press **SEARCH MODE** or **RETURN** to exit.

Audio Setting

DVD

Set your surround modes for DVD/VCR through your receiver or processor. DVD's audio setup will not affect CD playback.

- 1 In STOP menu press **SETUP**.
- 2 Press ◀ or ▶ to select "CUSTOM", then press **ENTER**.
 - CUSTOM menu will appear.
- 3 Press ◀ or ▶ to select "AUDIO", then **ENTER** to confirm.
- 4 Press ▲ or ▼ to select an item, then press **ENTER**.



DRC (Dynamic Range Control) :

- To compress the range of sound volume.
- DRC function is available only on the discs that are recorded in the Dolby Digital format.
- The default setting is ON.

DOWN SAMPLING :

- Set to ON when outputting in 48kHz.
- Set to OFF when outputting the original sound.
- When playing disc with copyright protection, the sound will be down sampled at 48kHz even if you set it to OFF.
- DOWN SAMPLING function is available only on digital output of a disc recorded in 96kHz, and when the unit is connected to another source using the digital out jack.
- DOWN SAMPLING function is available only on the discs that are recorded in the Dolby Digital format.
- The default setting is ON.

DOLBY DIGITAL : QUICK

Set to BITSTREAM when the DVD/VCR is connected to Dolby Digital Decoder.

(BITSTREAM : Dolby Digital OUTPUT)

(PCM : Converts the Dolby Digital to PCM)

- The default setting is BITSTREAM.

MPEG : QUICK

BITSTREAM: Output MPEG sound

Set to BITSTREAM when the unit is connected to an MPEG Decoder

- The default setting is PCM.

- 5 Press **SETUP** to exit.

Virtual Surround

DVD

CD

You can enjoy stereophonic virtual space on your existing 2 channel stereo system.

- 1 Press **SURROUND** during playback.
- 2 Press **SURROUND** to set it 1(Natural effect), 2(Emphasized effect) or OFF.
- 3 Press **MODE** or **RETURN** to exit.



NOTES:

- Virtual Surround will not be effective if the surround mode is set to any selection other than STEREO (for CD play only).
- Turn down the level or turn it "OFF" if the sound is distorted.
- The setting will be saved even if the DVD/VCR is turned off.

Display Setting

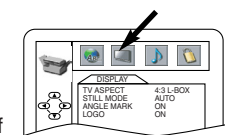
DVD

You can change certain aspects of the DVD display screens, on-screen messages and the display panel on the front of the DVD/VCR.

- 1 Press **SETUP** in STOP mode.
- 2 Press ◀ or ▶ to select "CUSTOM", then press **ENTER**.
 - CUSTOM menu will appear.
- 3 Press ◀ or ▶ to select "DISPLAY", then press **ENTER** to confirm.
- 4 Press ▲ or ▼ to select from an item, then press **ENTER**.

TV ASPECT : QUICK

- Press ▲ or ▼ for an item selection, then press **ENTER**.
- 4:3 LETTER BOX displays a theater-like image. Black bars appear at the top and bottom of the screen.
- 4:3 PAN-SCAN is the traditional TV mode with a full height picture with both sides trimmed.
- Select 16:9 WIDE if a wide-screen TV is connected to the DVD/VCR.
- The default setting is 4:3 LETTER BOX.



STILL MODE :

- Press ▲ or ▼ for an item selection (AUTO, FIELD or FRAME), then press **ENTER**.
- Select AUTO usually.
- If you select FIELD, pictures in the still mode will be stabilized although they will be coarse due to little amount of data.
- If you select FRAME, pictures in the still mode will be highly defined although they will be blurred due to output of two fields at the same time.
- The default setting is AUTO.

ANGLE MARK :

- Press **ENTER** repeatedly to turn Angle mark ON or OFF.
- The default setting is ON.

LOGO:

- Press **ENTER** to switch ON (opening picture)/OFF (black).
- The default setting is ON.

- 5 Press **SETUP** to exit.

NOTE:

- Be sure to press **SETUP**, or the setting will not work.

Language Setting

DVD

Language options are not available on some discs.

- 1 Press **SETUP** in STOP mode.
- 2 Press ◀ or ▶ to select "CUSTOM", then press **ENTER**.
 - CUSTOM menu will appear.
- 3 Press ◀ or ▶ to select "LANGUAGE", then **ENTER** to confirm.
- 4 Press ▲ or ▼ to select from an item, then press **ENTER**.

AUDIO :

- Sets the audio language.

SUBTITLE :

- Sets the subtitle language.

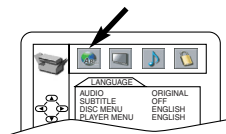
DISC MENU :

- Sets the language for DVD Menu.

PLAYER MENU : QUICK

- Sets the language for the On-Screen display.

- 5 Press ▲ or ▼ to select a setting, then press **ENTER**.
 - If "OTHERS" is selected in the "AUDIO", "SUBTITLE" or "DISC MENU" screen, press four-digit number to enter the code for the desired language. (Refer to the language code list below.)
 - Only the languages supported by the disc can be selected.
- 6 Press **SETUP** to exit.



NOTE:

- Language Setting for Audio and Subtitle is not available with some discs. Then use **AUDIO** and **SUBTITLE**. Details are on page 26.

To Return All Selections of SETUP (except for RATINGS CONTROL) to their Default Settings

DVD

This allows you to return all selections of SETUP (except for RATINGS CONTROL) to their default settings.

- 1 Press **SETUP** in STOP mode.
- 2 Press ◀ or ▶ to select "INIT." (INITIALIZE), then press **ENTER**.
 - INITIALIZE menu will appear.
- 3 Press ▲ or ▼ to select "YES", then press **ENTER**.
- 4 Press **ENTER** to exit.

NOTE:

- When you cancel to initialize at step 3, select "NO".

Language	Code	Language	Code	Language	Code	Language	Code
A-B							
Abkhazian	4748	French [FRE]	5264	Macedonian	5957	Siswat	6565
Afar	4747	Frisian	5271	Malagasy	5953	Slovak	6557
Afrikaans	4752	Galician	5358	Malay	5965	Slovenian	6558
Albanian	6563	Georgian	5747	Malayalam	5958	Somali	6561
Amharic	4759	German [GER]	5051	Maltese	5966	Spanish [SPA]	5165
Arabic	4764	Greek [GRE]	5158	Maori	5955	Sundanese	6567
Armenian	5471	Greenlandic	5758	Marathi	5964	Swahili	6569
Assamese	4765	Guarani	5360	Moldavian	5961	Swedish [SWE]	6568
Aymara	4771	Gujarati	5367	Mongolian	5960	T	
Azerbaijani	4772	Hausa	5447	Nauru	6047	Tagalog	6658
Bashkir	4847	Hebrew	5569	Nepali	6051	Tajik	6653
Basque	5167	Hindi	5455	Norwegian [NOR]	6061	Tamil	6647
Bengali;Bangla	4860	Hungarian [HUN]	5467	O-R		Tatar	6666
Bhutani	5072	I-K		Occitan	6149	Telugu	6651
Bihari	4854	Icelandic [ICE]	5565	Oriya	6164	Thai	6654
Bislama	4855	Indonesian	5560	Oromo(Afan)	6159	Tibetan	4861
Breton	4864	Interlingua	5547	Panjabi	6247	Tigrinya	6655
Bulgarian	4853	Interlingue	5551	Pashto;Pushto	6265	Tonga	6661
Burmese	5971	Inupiak	5557	Persian	5247	Tsonga	6665
Byelorussian	4851	Irish [IRI]	5347	Polish	6258	Turkish [TUR]	6664
C-E		Italian [ITA]	5566	Portuguese [POR]	6266	Turkmen	6657
Cambodian	5759	Japanese [JPN]	5647	Quechua	6367	Twi	6669
Catalan	4947	Javanese	5669	Rhaeto-Romance	6459	U-Z	
Chinese [CHI]	7254	Kannada	5760	Romanian [RUM]	6461	Ukrainian	6757
Corsican	4961	Kashmiri	5765	Russian [RUS]	6467	Urdu	6764
Croatian	5464	Kazakh	5757	S		Uzbek	6772
Czech	4965	Kinyarwanda	6469	Samoaan	6559	Vietnamese	6855
Danish [DAN]	5047	Kirghiz	5771	Sangho	6553	Volapuk	6861
Dutch [DUT]	6058	Kirundi	6460	Sanskrit	6547	Welsh	4971
English [ENG]	5160	Korean [KOR]	5761	Scots Gaelic	5350	Wolof	6961
Esperanto	5161	Kurdish	5767	Serbian	6564	Xhosa	7054
Estonian	5166	L-N		Serbo-Croatian	6554	Yiddish	5655
F-H		Laothian	5861	Sesotho	6566	Yoruba	7161
Faroeese	5261	Latin	5847	Setswana	6660	Zulu	7267
Fiji	5256	Latvian;Lettish	5868	Shona	6560		
Finnish [FIN]	5255	Lingala	5860	Sindhi	6550		
		Lithuanian	5866	Singhalese	6555		

If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Audio or Subtitle language setting on page 26. If you choose any other languages, "---" will be displayed instead. (3 letter language code is written in bracket.)

TROUBLESHOOTING GUIDE

If the DVD/VCR does not perform properly when operated as instructed in this Owner's Manual, check the DVD/VCR, consulting the following checklist.

Problem	Solution
No power	<ul style="list-style-type: none"> –Check if the AC power cord is properly connected. –Unplug the outlet once, and wait for 5-10seconds and then plug it in again.
No sound or picture	<ul style="list-style-type: none"> –Check if the TV is switched on. –Check the video connection. –Check the VIDEO/AUDIO cable connections to the TV (See Connecting to a TV).
Distorted picture	<ul style="list-style-type: none"> –Sometimes a small amount of picture distortion may appear. This is not a malfunction. –Connect the DVD/VCR directly to th TV.
Completely distorted picture or black/white picture with DVD	<ul style="list-style-type: none"> –Connect DVD/VCR directly to the TV. –Make sure the disc is compatible with the DVD/VCR.
No sound or distorted sound	<ul style="list-style-type: none"> –Adjust the volume. –Check that the speakers are connected correctly.
No audio at digital output	<ul style="list-style-type: none"> –Check the digital connections. –Check if the audio format of the selected audio language matches your receiver capabilities.
No sound and picture	<ul style="list-style-type: none"> –Check that the VIDEO/AUDIO cable is connected to the correct device (See Connecting to a TV).
Picture freezes momentarily during playback	<ul style="list-style-type: none"> –Check the disc for fingerprints/scratches and clean with a soft cloth wiping from centre to edge. –Clean the disc.
Disc can't be played	<ul style="list-style-type: none"> –Clean the disc. –Ensure the disc label is facing up. –Check if the disc is defective by trying another disc. –Cancel the parental lock or change the control level. –Insert a correct disc that plays on this DVD/VCR.
No return to start-up screen when disc is removed	<ul style="list-style-type: none"> –Reset the DVD/VCR by switching the DVD/VCR off, then on again.
The DVD/VCR does not respond to the remote control	<ul style="list-style-type: none"> –Aim the remote control directly at the sensor on the front of the DVD/VCR. –Reduce the distance to the DVD/VCR. –Replace the batteries in the remote control. –Re-insert the batteries with their polarities (+/– signs) as indicated.
Buttons do not work or DVD/VCR stops responding	<ul style="list-style-type: none"> –To completely reset the DVD/VCR, unplug the AC cord from the AC outlet for 5-10 seconds.
DVD/VCR does not respond to some operating commands during playback.	<ul style="list-style-type: none"> –Operations may not be permitted by the disc. Refer to the instructions of the disc.
DVD/VCR cannot read CDs/DVDs	<ul style="list-style-type: none"> –Use a commonly available cleaning CD/DVD to clean the lens before sending the DVD/VCR for repair.

NOTES:

Some functions are not available in specific modes, but this is not a malfunction. Read the description in this Owner's Manual for details on correct operations.

- Playback from a desired track and random playback are not available during program playback.
- Some functions are prohibited on some discs.

SPECIFICATIONS

OUTPUT SIGNAL FORMAT

PAL colour

POWER SOURCE

220-240 V AC +/- 10%, 50 Hz +/- 0.5%

POWER CONSUMPTION

30 W (standby: 5.0W)

OPERATING TEMPERATURE

41°F(5°C) to 104°F(40°C)

DIMENSIONS

W 17-3/16" (435 mm)

H 3-3/4" (94 mm)

D 9-3/16" (233 mm)

WEIGHT

Approx 7 lbs (3.2 kg)

- Designs and specifications are subject to change without notice.
- If there is a discrepancy between languages, the default language will be English.

MAINTENANCE

Servicing

- Should your DVD/VCR become inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn off, unplug the power cord, and please contact the Hitachi dealer who supplied the product or call the Hitachi helpline to locate an Authorized Service centre.

Cleaning the Cabinet

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.

Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre out. Do not wipe in a circular motion.
- Do not use solvents such as benzine, thinner, commercially available cleaners, detergent, abrasive cleaning agents or antistatic spray intended for analogue records.

Cleaning the disc lens

- If the DVD/VCR still does not perform properly when it is operated while referring to the relevant sections and to "TROUBLESHOOTING GUIDE" in this Owner's Manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service centre for inspection and cleaning of the laser optical pickup unit.

Disc Handling

- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.
- Always store the disc in its protective case when it is not used.

Make your contribution to the environment!!!

- Used up batteries do not belong in the dust bin.
- You can dispose of them at a collection point for used up batteries or special waste. Contact your council for details.



PLEASE PHOTOCOPY AND DISPLAY

Used correctly, domestic batteries are a safe and dependable source of portable power. Problems can occur if they are misused or abused — resulting in leakage or, in extreme cases, fire or explosion. Here are some simple guidelines to safe battery use designed to eliminate any such problems.

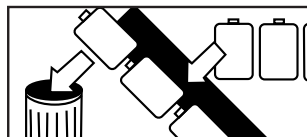


ALWAYS



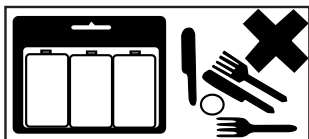
Take care to fit your batteries correctly, observing the plus and minus marks on the battery and appliance. Incorrect fitting can cause leakage or in extreme cases, fire or even an explosion.

ALWAYS



Replace the whole set of batteries at one time, taking care not to mix old and new batteries or batteries of different types, since this can result in leakage or in extreme cases, fire or even an explosion.

ALWAYS



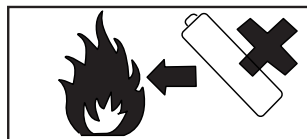
Store unused batteries in their packaging and away from metal objects which may cause a short-circuit resulting in leakage or, in extreme cases, fire or even an explosion.

ALWAYS



Remove dead batteries from equipment and all batteries from equipment you know you are not going to use for a long time. Otherwise the batteries may leak and cause damage.

NEVER



Never dispose of batteries in fire as this can cause them to explode. Please put dead batteries in with the normal household waste.

NEVER



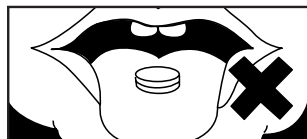
Never attempt to recharge ordinary batteries, either in a charger or by applying heat to them. They may leak cause fire or even explode. There are special rechargeable batteries which are clearly marked as such.

ALWAYS



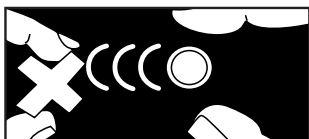
Supervise children if they are replacing batteries themselves in order to ensure these guidelines are followed.

NEVER



Remember that small button cell batteries such as used in some hearing aids, toys, games and other appliances, are easily swallowed by young children and this can be dangerous.

ALWAYS



Keep loose button cells away from young children.

ALWAYS



Make sure battery compartments are secure.

ALWAYS



Seek medical advice if you believe a cell has been swallowed.

SOME DOS AND DON'TS ON THE SAFE USE OF EQUIPMENT

This equipment has been designed and manufactured to meet international safety standards but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

★★★★★★★★★★

DO read the operating instructions before you attempt to use the equipment.

DO ensure that all electrical connections (including the mains plug, extension leads and interconnection between pieces of equipment) are properly made and in accordance with the manufacturer's instructions.

Switch off and withdraw the mains plug when making or changing connections.

DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

DO be careful with glass panels or doors on equipment.

★★★★★★★★★★

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way switch off, withdraw the mains plug and consult your dealer.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure that your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

DON'T listen to headphones at high volume, as such use can permanently damage your hearing.

DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings.

Overheating will cause damage and shorten the life of the equipment.

DON'T use makeshift stands and NEVER fix legs with wood screws — to ensure complete safety always fix the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T allow electrical equipment to be exposed to rain or moisture.

ABOVE ALL

---NEVER let anyone especially children push anything into holes, slots or any other opening in the case — this could result fatal electrical shock:

---NEVER guess or take chances with electrical equipment of any kind.

---it is better to be safe than sorry!

★★★★★★★★★★

HITACHI

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HITACHI-YOUR GUARANTEE OF EXCELLENCE (for UK only)

For the period of 12 MONTHS from the date of purchase your product has the benefit of our FULL PARTS AND LABOUR GUARANTEE as detailed below.

We undertake to replace or repair any part of the product which fails due to manufacturing defect within 12 months of the date of purchase provided that:

- 1) The product has been installed and used only in accordance with the instructions supplied with the product.
- 2) The product has not been repaired, maintained, or modified by any person other than our authorised Engineer.
- 3) The product serial number is not removed or altered.

This guarantee does not apply to products acquired secondhand or for commercial or communal use.

This guarantee does not extend to user control adjustments, battery replacement and aerial adjustment.

Any parts replaced under guarantee shall become the property of Hitachi Europe Ltd.

Please note that evidence of the date of purchase will be required before service under guarantee is carried out.

This guarantee does not affect your statutory rights. In all cases of difficulty consult your Hitachi dealer.

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