

Digital Video Disc Player & Video Cassette Recorder

DVP620VR



VIDEO Plus+

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Let's make things better.



PHILIPS

The region code for this set is 2.

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



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The DVD/VCR is in conformity with the EMC directive and low-voltage directive.

For Customer Use:

So that you can identify your machine for service questions or in the event of theft, enter the serial number here. The serial number (PROD. NO.) is printed on the type plate fixed at the back of the device.

Model No. DVD/VCR
Serial No. _____

This product complies with the requirements of Directive 73/23/EEC +89/336/EEC +93/68 EEC.

Laser safety

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

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

LASER

Type	Semiconductor laser GaAlAs
Wave length	655 nm (DVD) 790 nm (VCD/CD)
Output Power	0.8 mW (DVD) 0.5 mW (VCD/CD)

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

(WARNING LOCATION: ON THE BACKPLATE OF SET)

About the PBC Function of Video CD

- This unit conforms to ver.1.1 and ver.2.0 of VIDEO CD standard, with PBC function.
Ver.1.1 (without PBC function): You can enjoy playback picture as well as music CD.
Ver.2.0 (with PBC function): When using a VIDEO CD with PBC function, "PBC" appears on the display.
- "PBC" stands for Play Back Control.
- Video CD with PBC function has its original menu. Menu operation may vary depending on the disc. Refer to the manual included in the disc for details.
- "PBC" appears on the front panel display when a Video CD with PBC function is loaded.

Thank you for purchasing this Philips DVD/VCR. This Owner's Manual explains the basic operation of this DVD/VCR.

Environmental Information

All unnecessary packaging has been omitted. Packaging has been made easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet). Your DVD/VCR consists of materials which can be recycled and reused if disassembled by a specialised company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

Supplied Accessories

- Remote control
- Batteries (two AA size) for remote control
- SCART cable
- RF Coaxial cable
- Owner's Manual

Safety Information

- To reduce the risk of fire or electric shock, do not expose this device to rain or moisture.
- Before operating the DVD/VCR, check that the operating voltage indicated on the typeplate (or the voltage indication beside the voltage selector) is identical with the voltage of your local power supply. If not, please consult your dealer.
- Place the DVD/VCR on a flat, hard and stable surface.
- There must be sufficient room in front of the player for the disc tray to be opened.
- In cabinet, allow about 2.5cm (1 inch) of free space all around the player for adequate ventilation.
- Do not expose your player to extreme of temperature or humidity.
- If the DVD/VCR is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens of the disc unit inside the DVD/VCR player. Should this occur, the DVD/VCR would not operate normally. Leave the player on for about one hour with no disc in the DVD/VCR until normal playback is possible.
- The mechanical parts of the set contain self-lubricating bearings and must not be oiled or lubricated.
- Never spill liquid of any kind on this unit. If liquid is spilled into the unit, consult qualified service engineer.
- When the DVD/VCR is switched to Standby mode, it is still consuming some power. To disconnect the system from the power supply completely, remove the AC power plug from the wall socket.**

Symbols Used in this Manual

The below symbols appear in some headings and notes with the following meanings:

	- Description refers to playback of DVD-video discs
	- Description refers to playback of Audio CDs
	- Description refers to playback of video CDs.
	- Description refers to playback of MP3 files
	- Description refers to playback of JPEG files

Helpful Hints!

- Some DVD video discs require specific functions or allow only limited functions during playback.
- " " appears on the TV screen which means that the function is not available on that specific DVD video disc.

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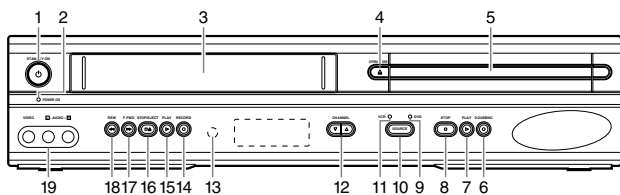
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Functional Overview

Front Panel



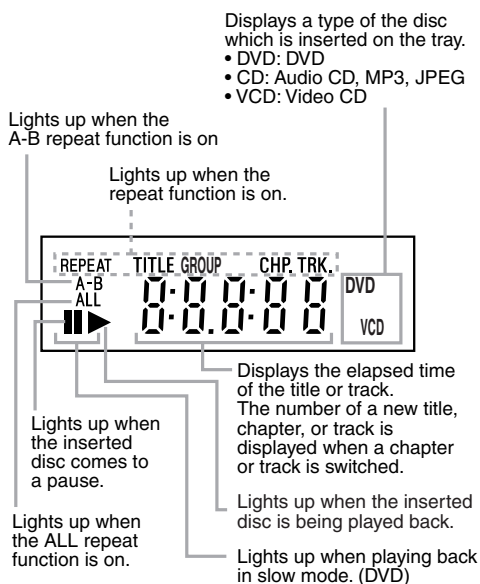
1. **STANDBY-ON button (DVD,VCR)**
to switch the player to ON or OFF
2. **POWER-ON light (DVD,VCR)**
light appears when DVD/VCR turns on.
3. **Cassette Compartment (VCR)**
insert a tape here
4. **OPEN/CLOSE button (DVD)**
to open/close the disc tray
5. **Disc Tray (DVD)**
insert a disc here
6. **DIRECT DUBBING button (VCR)**
to play DVD disc and record its' content to video cassette tape at the same time
7. **PLAY button (DVD)**
to start, pause or resume disc playback
8. **STOP button (DVD)**
to stop playback
9. **DVD light (DVD)**
light appears when DVD/VCR in DVD mode
10. **SOURCE button (DVD,VCR)**
to select between DVD and VCR mode
11. **VCR light (VCR)**
light appears when DVD/VCR in VCR mode
12. **CHANNEL button (VCR)**
to select a programme number on the TV
13. **IR (Infrared) Remote Sensor (DVD,VCR)**
receive signals from remote control

14. **RECORD button (VCR)**
press once to start recording, repeatedly to start an One-Touch Recording
15. **PLAY button (VCR)**
to play a tape
16. **STOP/EJECT button (VCR)**
when playback is stopped, press to eject the tape
17. **F.FWD**
when tape playback is stopped, press to fast forward the tape at high speed. During playback, press to fast forward the tape while the picture stays on the screen.
18. **REW**
when tape playback is stopped, press to rewind the tape at high speed. During playback, press to rewind the tape while the picture stays on the screen.
19. **AUDIO and VIDEO in jacks**
connect to AUDIO and VIDEO OUT of an audio source

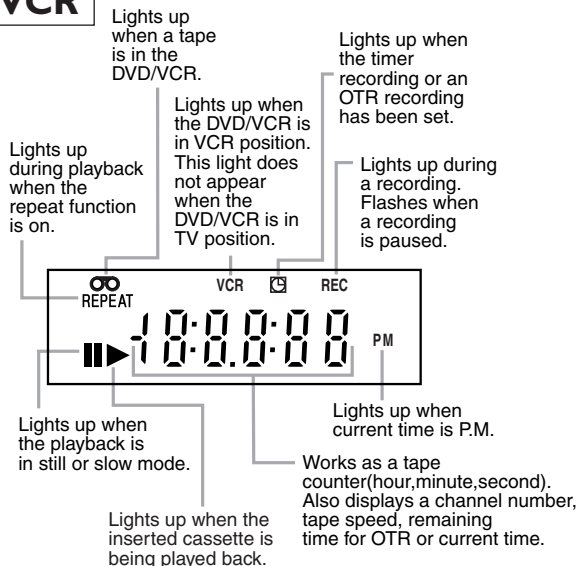
Display Message

	Appears after the disc tray closes if the tray is empty, if there is an error reading the disc, or if an unacceptable disc is installed
	Tray is opening or is open.
	Tray is closing. This also may appear as the Player tries to load a Disc
	Loading the Disc
	Lights up when the playback control is activated

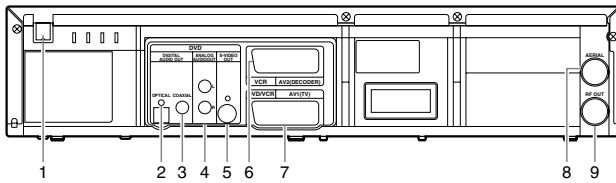
DVD



VCR



Rear Panel



1. MAINS (AC Power Cord)

connect to a standard AC outlet

2. OPTICAL (Digital audio out) jack (DVD only)

connect to digital (optical) audio equipment

3. COAXIAL (Digital audio out) jack (DVD only)

connect to AUDIO inputs of a digital (coaxial) audio equipment

4. AUDIO OUT (Left/Right) jacks (DVD only)

connect to AUDIO inputs of an amplifier, receiver or stereo system

5. S-Video Out jack (DVD only)

connect to a TV with S-Video inputs

6. AV2 (DECODER) jack (VCR only)

connect SCART cable from another DVD/VCR, camcorder or an audio/video source

7. AV1 (TV) jack

connect SCART cable to a TV

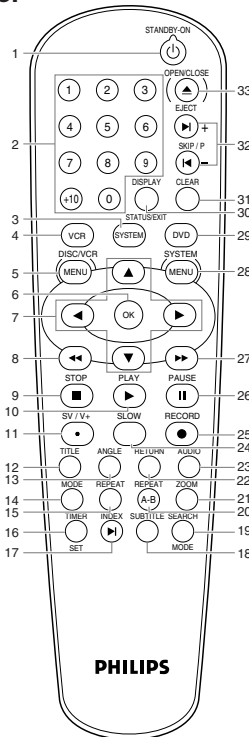
8. AERIAL jack

connect to an antenna or cable

9. RF OUT jack

use supplied RF coaxial cable to connect to the ANTENNA IN on your TV, cable box or Direct Broadcast System

Remote Control



1. STANDBY-ON

switch DVD/VCR ON or OFF

2. 0-9 numerical key pads/+10

select numbered items in a menu
use +10 button to enter number 10 and above (DVD)
to select TV channels in VCR mode

3. SYSTEM

doesn't work on this model

4. VCR

press to put the DVD/VCR in VCR mode and before using the remote control for VCR features

5. DISC/VCR MENU

to display the menu of the DVD disc or to access VCR menu

6. OK

acknowledge menu selection (DVD)

7. Left/Right/Up/Down arrow keys

(left/right/up/down) select an item in the menu

8. Left/Right arrow keys

to view DVD picture in fast reverse motion (DVD)
to rewind the tape (VCR)

9. STOP

to stop a DVD disc playback (DVD)
to stop playback, recording (VCR)

10. PLAY

to start a DVD disc playback (DVD)
to start a tape playback (VCR)

11. SV/V+

to programme timer recording with the VIDEO Plus+ system (VCR)

12. TITLE

to display title menu of a disc (DVD)

13. ANGLE

select DVD camera angle (DVD)

14. MODE

to set up programmed or random playback (DVD)

15. REPEAT

repeat chapter, track, title, disc (DVD)

16. TIMER SET

to put the DVD/VCR into standby mode for a timer recording

17. INDEX SEARCH (Right Arrow)

to fast forward or rewind the tape at index number (VCR)

18. SUBTITLE

subtitle language DVD selector (DVD)

19. SEARCH MODE

to access or remove search display (DVD)

20. REPEAT (A-B)

repeat a specific segment (DVD)

21. ZOOM

enlarge DVD video image (DVD)

22. RETURN

to return previous or remove setup menu (DVD)

23. AUDIO

to choose audio languages or sound modes (DVD)
to choose sound modes (VCR)

24. SLOW

to view tape playback in slow motion (VCR)

25. RECORD (Dot)

to record the TV channel selected at this moment or press repeatedly to start a One-Touch Recording (VCR)

26. PAUSE (Two Vertical Bars)

pause playback temporarily / frame-by-frame playback (DVD)
pause playback and during recording temporarily (VCR)

27. Right Arrow

to view DVD picture in fast forward motion (DVD)
to fast forward the tape (VCR)

28. SYSTEM MENU

to access or remove the DVD setup menu (DVD)

29. DVD

press to put the DVD/VCR in DVD mode and before using the remote control for DVD features

30. DISPLAY STATUS/EXIT

to access or remove the display screen during DVD or Audio CD playback (DVD)

to access or remove VCR's on-screen status display (VCR)

to remove VCR's menu (VCR)

31. CLEAR

to reset the setting (DVD)
to reset the counter (VCR)
to delete last entry/Clear programmed recording (TIMER) (VCR)

32. SKIP/P (Left Arrow / - / Right Arrow / +)

to skip chapter/tracks (DVD)
to change TV channels (VCR)

33. OPEN/CLOSE EJECT

to insert discs into or remove them from the tray (DVD)
to remove the tape from the VCR (VCR)

Setting Up your DVD/VCR

Important for the United Kingdom

This apparatus is fitted with an approved moulded 13 Amp plug. To change a fuse in this type of plug proceed as follows:

- 1 Remove fuse cover and fuse.
- 2 Fix new fuse which should be a BS1362 3A, ASTA or BSI approved type.
- 3 Refit the fuse cover.
If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place. If the mains plug contains a fuse, this should have a value of 3A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 3A.

The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.

How to connect a plug:

The wires in the mains lead are coloured in accordance with the following code:

BLUE- 'NEUTRAL' ('N')

BROWN- 'LIVE' ('L')

- 4 The BLUE wire must be connected to the terminal which is marked with the letter 'N' or coloured BLACK.
- 5 The BROWN wire must be connected to the terminal which is marked with the letter 'L' or coloured RED.
- 6 Do not connect either wires to the earth terminal in the plug which is marked with the letter 'E' or by the safety earth symbol \perp or coloured green or green-and-yellow.
Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead-not imply over the two wires.

Basic Connections

- Please refer to the instruction books of your TV, VCR, Stereo System or other devices as necessary to make the best connections.
 - Make one of the following connections, depending on the capabilities of your existing equipment.
- The following guidelines are options for the best picture and sound quality available on your DVD/VCR.

Picture

- 1 Use SCART RGB Output (DVD/VCR(AV1 TV)) for best picture quality (for DVD and VCR features).
- 2 Use S-VIDEO Output for the better picture quality (for DVD features only).
- 3 Use SCART Composite Output for good picture quality (for DVD and VCR features).
- 4 If your TV only has a RF-style (Antenna IN or 75 ohm) input, use the RF OUT for connection and set your TV to channel 22 ~ 69 with the same channel for DVD/VCR is set (for DVD and VCR features).

Sound

- 1 Digital audio connections provide the clearest sound. Connect the DVD/VCR DIGITAL AUDIO OUT (either COAXIAL or OPTICAL) to your amplifier or receiver (for DVD features only).
- 2 Use SCART Output (DVD/VCR(AV1 TV)) for better sound quality (for DVD and VCR features).
If digital connections are not possible, connect the DVD/VCR ANALOG AUDIO OUT (Left and Right) to your amplifier, receiver, stereo or TV (for DVD features only).

Warning!

- **Never make or change connections with the power switched on.**
- **Connect the DVD/ VCR directly to your TV, instead of eg. a VCR, to avoid distortion because DVD video discs are copy protected.**
- **Do not connect the ANALOG AUDIO OUT of DVD/ VCR to PHONO IN of your amplifier or receiver.**
- **If you use the Euro audio/video cable, it is not necessary to connect the analog audio cable.**

Connecting to a TV

- 1 Connect the antenna or cable to the AERIAL of your DVD/ VCR.
- 2 Connect the DVD/ VCR (AV1 TV) on the DVD/ VCR to the corresponding connector on the TV.

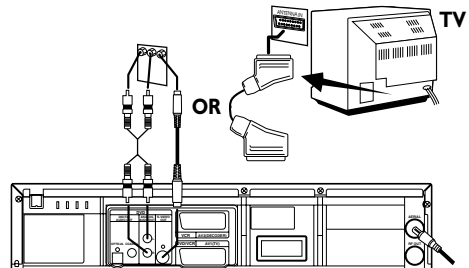
Note:

- **Ensure that the "TV" indication on SCART cable is connected to the TV set and "DVD" indication on SCART cable is connected to the DVD/ VCR.**

If your TV is not equipped with a SCART input, you can select the following connection:

If your TV has a S-Video input connector,

- 1 Connect the antenna or cable to the AERIAL of your DVD/ VCR.
- 2 Connect the S-Video out on the DVD/ VCR to the S-Video in on the TV.
- 3 Connect the ANALOG AUDIO OUT on the DVD/ VCR to the Left and Right audio in on the TV.

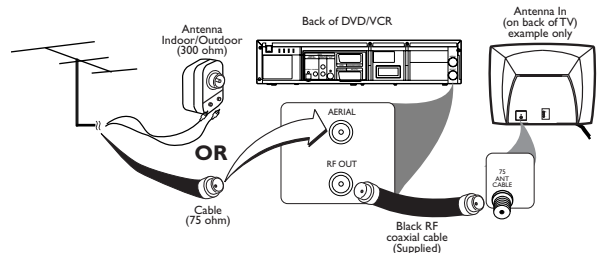


Note:

- **You will still need the SCART cable or RF coaxial cable for VCR features.**

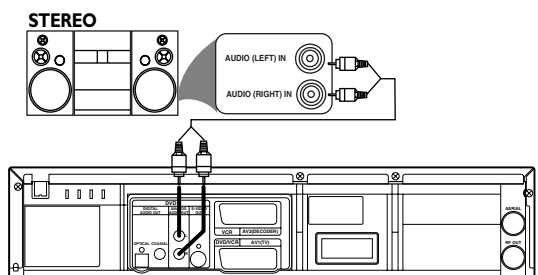
Simplest connection using only supplied black RF coaxial cable

- 1 Disconnect the antenna or cable from your TV.
- 2 Connect the antenna or cable to the AERIAL of your DVD/ VCR.
- 3 Connect black RF coaxial cable to the RF OUT on the rear panel of the DVD/ VCR and to the ANTENNA IN on the TV.
- 4 Plug in the power cords of the TV and DVD/ VCR.



Connecting to an Audio System (for DVD features)

- 1 You can also listen to the sound of audio CDs and DVD video discs by connecting to an optional stereo system.
- 2 Connect DVD/ VCR ANALOG AUDIO OUT (Left and Right) to the audio in on the stereo system.



Connecting to Optional Equipment (for DVD features)

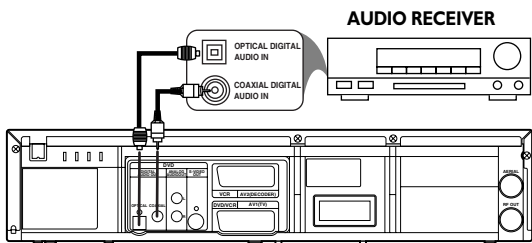
- A digital component with a built-in MPEG 2 or Dolby Digital™ decoder allows you to enjoy the surround sound while producing the effect of being in a movie theater or a concert hall.
- The player outputs the surround sound signals from the DIGITAL OUT COAXIAL or OPTICAL connector.

If your receiver has a MPEG 2 or Dolby Digital™ decoder,

- 1 Connect the COAXIAL or OPTICAL DIGITAL AUDIO OUT of the DVD/VCR to the COAXIAL or OPTICAL DIGITAL AUDIO IN on your receiver.

Notes:

- If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.
- MP3 Audio is not available on the Digital Output.
- You will still need the video cable or RF coaxial cable for VCR features.



External Input Mode (for VCR features)

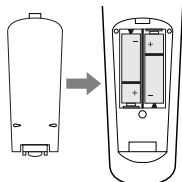
To receive the signal from an external input (decoder, satellite receiver, video camera, another VCR etc.), connect to the AV2 (DECODER) socket, and enter "002" with numerical key pads to appear "AV2" on the TV screen.

If you use the AV1 (TV) socket, enter "001" with numerical key pads to appear "AV1" on the TV screen.

If you use the front AUDIO/VIDEO input jacks, enter "003" with numerical key pads to appear "AV3" on the TV screen.

Inserting batteries into the Remote Control

- 1 Open the battery cover.
- 2 Insert batteries (AA size) with the correct polarity as indicated by the + and - symbols inside the battery compartment.
- 3 Close the cover.



CAUTION!

- Remove batteries if they are exhausted or not to be used for a long time.
- Do not use old and new or different types of batteries in combination.
- Batteries contain chemical substances, so they should be disposed off properly and kept away from children.

Using the Remote Control

- Direct the remote control at the remote sensor of the DVD/VCR.
- Do not drop the remote control.
- Do not leave the remote control near extremely hot or humid place.
- Do not spill water or put anything wet on the remote control.

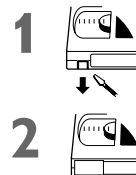
Playable Video Cassette Tapes

Philips Consume Electronics recommends that only video cassette tapes that have the VHS mark and High Quality (HQ) system is compatible with this DVD/VCR. This DVD/VCR has an Automatic Head Cleaner.

Recording Prevention

Video cassette tapes have record tabs to ensure recordings are not erased accidentally.

- 1 To prevent recording, break off the tab with a screw-driver.
- 2 To allow recording, cover the hole with cellophane tape.



Notes:

- Use only tapes with VHS mark.
- Remove any adhesive stick-on notes from the tape before inserting into the DVD/VCR.
- Periodic maintenance is required to maintain your DVD/VCR performance.
- Video heads will require replacement after a period of time. Only an authorised service center should perform this service.

Turning on your DVD/VCR

The following steps only be performed when you insert the AC PLUG at the first time.

- 1 Turn on the TV and select the video channel on the TV.
- 2 Plug in the DVD/VCR.
- 3 Confirm with P+.
- 4 "TIME" and "DATE" will appear on the TV screen.
- 5 Check "TIME". If required, please change the time with numerical key pads.
- 6 Check if the displayed settings for "DAY", "MONTH" and "YEAR" are correct.
- 7 When all information is correct, save by pressing STATUS/EXIT. The preparation for use is now complete.

PLEASE CONNECT AERIAL OR CABLE TO THE VCR

THEN...
PUSH P+ KEY

OR...
FOR PLAY ONLY - PUSH PLAY

PLEASE WAIT

START FINISH

TIME --:--

DATE --/--

SMART CLOCK [ON]

END=EXIT

Note:

- If the DVD/VCR has been completed AUTO TUNING at this procedure, this initial menu has never shown even if power failure is occurred or inserted AC plug again.)

Setting Up your DVD/VCR

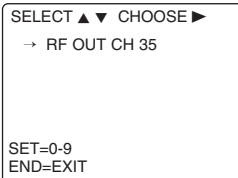
Video Channel Setting

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

- 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 8.
 - 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 DISC/VCR MENU.
- 4 Press ▲/▼ to select "INITIAL SET UP". Then, press ►.
- 5 Press ▲/▼ to select "RF OUT". Then, press ► twice.
- 6 Press ▲/▼ to select a channel which is not used for broadcasted between channel 22 and channel 69 in your area, then press ►.
 - You can also see the selecting RF channel in the display
- 7 Press STATUS/EXIT to exit. Set the TV channel to the RF OUT CHANNEL which was selected on the DVD/VCR. A picture from the 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 broadcasted.
- 8 Press STOP ■ to stop the tape.

Note:

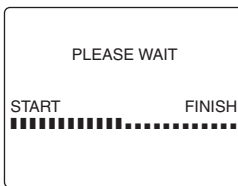
– You may also access the RF OUT CH menu by pressing and holding DISC/VCR MENU for 3 seconds during power off until the RF OUT CH menu appears.



Automatic Channel Setup

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

- 1 Turn on the TV and select the video out channel on your TV.
- 2 Press VCR, then DISC/VCR MENU.
- 3 Press ▲/▼ to select "TUNER SET UP", then press ►.
- 4 Press ▲/▼ to select "AUTO TUNING", then press ►.
 - The tuner scans and memorizes all the active channels in your area. After scanning, the tuner stops on the lowest memorized channel.
- 5 Press P +/- or numerical key pads to scan through channels you have received.

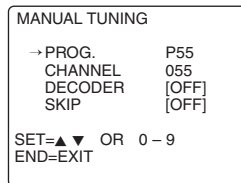


Sorting of TV channels from P01 to P06 will be performed automatically as follows.

P01: BBC1	P02: BBC2
P03: ITV	P04: CH4
P05: CH5	P06: SKY NEWS

Manual Channel Preset

- 1 Press VCR, then DISC/VCR MENU.
- 2 Press ▲/▼ to select "TUNER SET UP", then press ►.
- 3 Press ▲/▼ to select "MANUAL TUNING", then press ►.
- 4 Press ▲/▼ to select "PROG.", then press ►.
- 5 Press ▲/▼ or numerical key pads to select your desired programme number, then press ►.
 - You can select programme number 01-99.
- 6 Press ▲/▼ to select "CHANNEL", then press ►.
- 7 Press ▲/▼. 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 numerical key pads. Press three digits to select the channel number. (To select channel 24, first press "0" button then press "2" and "4").
 - If this is the channel you want, press ►.
 - If you want to remove scrambled signals, press ▲/▼ to select "DECODER". Then, press ► to select "[ON]".
- 8 Press STATUS/EXIT to exit.



Notes:

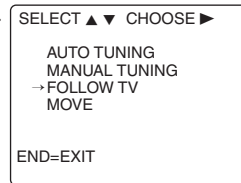
– To confirm that a channel has been added, press the P +/- buttons.

– You should select the satellite channels to be received by the satellite receiver directly on the receiver itself.

Follow TV (Automatic TV channels sorting)

When the automatic channel search function is activated, the TV channels are saved in a specific order. This may vary from the order of TV channels on the TV. This function changes the order of TV channels saved in the DVD/VCR to match that of the TV. Make sure that the DVD/VCR and the TV are connected by a scart cable.

- 1 Press VCR, then DISC/VCR MENU.
- 2 Press ▲/▼ to select "TUNER SET UP", then press ►.
- 3 Press ▲/▼ to select "FOLLOW TV", then press ►.
- 4 "P:01" will appear in the DVD/VCR display.



I cannot switch my TV to programme number "1"

If you have connected additional devices to socket AV2(DECODER), please disconnect these devices. Because of other connected devices, the TV could switch to the programme number of the scart socket.

"NO TV SIGNALS" appears in the TV screen.

The DVD/VCR is not receiving a video signal from the TV. Check the plug on the scart cable. Check your TV's operating instructions to see which scart socket is used for video signals. If this does not help, it's not possible to use this function. Please read the section 'Sorting TV channels manually'.

- 5 Select programme number "1" on the TV.
- 6 Confirm with ► on the DVD/VCR remote control. The DVD/VCR compares the TV channels on the TV and the DVD/VCR. If the DVD/VCR finds the same TV channel as on the TV, then it stores it at "P01".
- 7 Wait until the next number, e.g. "P:02" appears in the display.
- 8 Select the next programme number on the TV, e.g. "2".
- 9 Confirm with ►.
- 10 Repeat steps 7 to 9 until you have assigned a programme number to all TV channels.
- 11 To end, press STATUS/EXIT.

Sorting TV channels manually

After you have performed the automatic channel search you may not agree with the sequence in which the individual TV channels have been allocated to the programme positions (programme numbers) of the DVD/VCR. You can use this function to individually sort the TV channels already saved.

The clock resets automatically

If you save a TV channel that transmits VPS/ PDC or the Teletext on programme number 'P01', date and time will constantly be updated. As a result, time changes, i.e. daylight savings time, will be set automatically.

- 1 Press VCR, then DISC/VCR MENU.
- 2 Press ▲/▼ to select "TUNER SET UP", then press ►.
- 3 Press ▲/▼ to select "MOVE", then press ►.
- 4 Press ▲/▼ to select the saved TV channel that you want to change.
- 5 Confirm with ►.
- 6 Move the selected channel with ▲/▼ to the programme number you want to assign.
- 7 Confirm with ►.
- 8 To assign other TV channels to a programme number, repeat steps 4 to 7.
- 9 Confirm the assignment of the TV channel with MOVE menu.
- 10 To exit the MOVE menu, press STATUS/EXIT.

MOVE		
→ P01:	02	P06: 90
P02:	03	P07: 99
P03:	05	P08: 121
P04:	10	P09: 124
P05:	74	P10: 130

SELECT ▲ ▼ CHOOSE ►
END=EXIT

Setting the clock

If the display shows an incorrect time or "--:--", the time and date must be reset manually.

If a TV channel that transmits VPS/PDC or the Teletext is stored under programme number "P01", time/date will automatically be taken from VPS/PDC or the Teletext information. (SMART CLOCK)

- 1 Press VCR, then DISC/VCR MENU.
- 2 Press ▲/▼ to select "INITIAL SET UP", then press ►.
- 3 Press ▲/▼ to select "CLOCK", then press ►.
- 4 Check the time in "TIME". If required, please change the time with numerical key pads.
- 5 Check "DAY", "MONTH" and "YEAR" in the same way.
- 6 Choose "SMART CLOCK" [ON] or [OFF] with ►.
- 7 To end, press STATUS/EXIT.

TIME	--:--
DATE	--/--
SMART CLOCK	[ON]

END=EXIT

Time/date is displayed incorrectly despite manual setting

With Smart Clock, time/date is taken from the TV channel saved on 'P01'. If you wish to switch this automatic time correction off, select 'OFF' for Smart Clock. You can reactivate this function at anytime by selecting 'ON' for Smart Clock.

Setting the RF out channel

In some reception locations it is possible that a TV channel will be sent on the same or similar frequency as the DVD/VCR.

Result: As soon as the DVD/VCR is switched on, the reception quality for this or several other TV channels will decrease.

The following steps will show you how to change the pre-set 'transmission' (RF out channel) frequency on the DVD/VCR.

- 1 Press VCR, then DISC/VCR MENU.
- 2 Press ▲/▼ to select "INITIAL SET UP", then press ►.

What is RF out channel?

This electronic component in the DVD/VCR allows the device to transmit audio and video signals via the aerial cable. These signals can be received on a TV set just like TV channels.

What is RF out channel frequency?

This frequency or channel indicates the channel on which the audio or video signal is transmitted.

- 3 Press ▲/▼ to select "RF OUT", then press ►.
- 4 Press ►.
- 5 Press ▲/▼ or numerical key pads to select a free (not allocated) channel between channel 22 and 69 in your area.
- 6 Press ►.
- 7 To end, press STATUS/EXIT.

SELECT ▲ ▼ CHOOSE ►
→RF OUT CH 35
END=EXIT

If you cannot get an interference-free picture and sound, connect the DVD/VCR and the TV with a scart cable. Then, switch the built-in modulator off.

Press ▼ repeatedly until '--' appears next to 'RF OUT CH' on the TV screen. Then confirm with ►.

Decoder allocation

Some TV channels transmit encoded TV signals which can only be viewed with a purchased or rented decoder. You can connect such a decoder to this DVD/VCR. The following function will automatically activate the connected decoder for the desired TV channel.

- 1 Switch the TV on. If applicable, select the programme number for the DVD/VCR operation.
- 2 Press ▲/▼ or numerical key pads to select the TV channel which you would like to allocate the decoder to.
- 3 Press DISC/VCR MENU. The main menu will appear.
- 4 Press ▲/▼ to select "TUNER SET UP". Then press ►.
- 5 Press ▲/▼ to select "MANUAL TUNING". Then press ►.
- 6 Press ▲/▼ to select "DECODER".
- 7 Press ► to select "[ON]" (Decoder switched on).

MANUAL TUNING	
PROG.	P55
CHANNEL	055
→DECODER	[OFF]
SKIP	[OFF]

SELECT ▲ ▼ CHOOSE ►
END=EXIT

How can I switch off the decoder?

Use ► to select "[OFF]" (Decoder switched off).

- 8 To end, press STATUS/EXIT. The decoder has now been allocated to this programme number.

VCR Playback

Playing back cassettes

You can operate the DVD/VCR using the remote control or the buttons on the front of the DVD/VCR. If you press PLAY ►, STOP ■, ◀◀ or ▶▶ while the set is in Stand-by, the power will be automatically turned on. Additionally, if a cassette was already inserted, the corresponding operation will be performed.

Your DVD/VCR can only record and playback standard VHS cassettes.

- 1 Put a cassette into the cassette slot. The cassette is inserted automatically.
- 2 Press PLAY ► to view the tape. "►" will appear on the display.
- 3 To stop the playback, press STOP ■ or STOP/EJECT ▲ on the DVD/VCR.
- 4 To eject the cassette, press EJECT ▲ or STOP/EJECT ▲ on the DVD/VCR when the DVD/VCR stops the playback.

DIGITAL STUDIO PICTURE CONTROL

Philips has developed a system which produces the best possible playback quality. For old and often-used video cassettes, this system reduces interference. For new or high quality cassettes, it emphasises the details.

Picture/ sound quality is poor

When playing back rental videos or older, poorer quality cassettes, it may not be possible to completely filter out picture and sound interference. This is not a fault in your machine. Read the section 'Manual tracking'.

Do I need to change the playback speed when playing back LP recordings?

During playback, the correct speed will automatically be selected. For more information, please read the section 'Selecting the recording speed (SP or LP)' in the chapter 'VCR Manual recording'.

Playing back NTSC cassettes

This DVD/VCR can also playback cassettes that have been recorded in SP [Standard Play] or SLP [Super Long Play] mode in the NTSC standard (for example, American cassettes). However, this only works on PAL-television sets that are suitable for a picture frequency of 60Hz.

Displaying current tape position

The following information is displayed on the screen: e.g.:

0:02:45 shows the counter in hours, minutes and seconds.

SP/LP: will show the recorded speed of your cassette

"REM 0:06": will show the remaining time left on the tape in hours and minutes.

When you playback an NTSC cassette, the DVD/VCR will show "REM -:-".

How can I set the counter to "0:00:00"?

You can set the counter to "0:00:00" with CLEAR.

When you put a cassette in the DVD/VCR, the counter will automatically reset to "0:00:00".

The counter does not move

This occurs when there are no recordings on a portion of a tape. This is not a fault in your DVD/VCR.

The screen shows "-0:01:20"

If you rewind a cassette from the tape position "0:00:00", the counter will show for instance, "-0:01:20" (the cassette was rewound to 1 minute and 20 seconds before "0:00:00").

"-:-" is displayed in the 'REM' counter

This counter will automatically recognise the length of the tape. In addition, when you put in a cassette the DVD/VCR will first calculate the time played. Therefore, "-:-" appears first and only after the tape has been running for a few seconds, the correct remaining time will be shown.

Searching for a tape position with picture (scanning)

- 1 During playback, press ◀◀ or ▶▶ one or more times.
- 2 If you want to search in super high speed, press ◀◀ or ▶▶ once more. (This function will not operate for a cassette recorded in SP mode in the NTSC standard.)
- 3 Press PLAY ► to resume playback.

Still picture / slow motion

- 1 During playback, press PAUSE ■■ to stop the tape and display a still picture.
 - 2 During playback, press SLOW to playback the tape in slow motion.
 - 3 Press PLAY ► to resume playback.
- Scanning and still/slow motion interferes with the picture quality. The sound is switched off. This is not a fault in your DVD/VCR.

Searching for tape position without picture (forward wind and rewind)

1. Stop the tape with STOP ■.
2. Press ◀◀ or ▶▶. 'Fr' or 'FF' will appear on the display for 5 seconds, and then, the remaining tape time will appear.
3. To stop the tape, press STOP ■.

Index search

Every time a tape is recorded an index marking is written on the tape. These marked positions can be found again quickly and easily later.

- 1 To search for the previous marking, press INDEX ► and then ◀◀. 'Fr' will appear on the display for 5 seconds, and then, the remaining tape time will appear.
- 2 For the next marking, press INDEX ► and then ▶▶. 'FF' will appear on the display for 5 seconds, and then, the remaining tape time will appear.
- 3 As soon as the DVD/VCR finds this marking, it automatically switches to playback.

Manual Tracking

To manually adjust the tracking during playback and slow motion playback, press Programme+, Programme-, P+ or P-. Tracking will return to Automatic Tracking Adjustment when you press STOP ■, insert a tape, or press PLAY ►.

To remove vertical jitter in a Still picture, press Programme+, Programme-, P+ or P-.

General information

Use **'Manual Recording'** to make a spontaneous recording (for example, a programme currently being shown).
 If you want to start and stop a recording manually, read the section **'Recording without automatic switch-off'**.
 Read the section **'DIRECT RECORD'** if you want to record a programme currently being shown.
 Read the section **'Automatic controlled recording from a satellite receiver (RECORD LINK)'**, if you want a recording to be controlled automatically by a satellite receiver.

Recording without automatic switch-off

- 1 Insert a cassette.
- 2 Use P+/P- to select the programme number you want to record, for example, 'P01'.
- 3 To start recording, press RECORD ●.
- 4 Stop recording with STOP ■.

"PROTECTED CASSETTE CANNOT RECORD" message briefly appeared in the TV screen, then the cassette was ejected.

A cassette without its security tab was inserted.
 Undo the erase protection.

Lining up recordings (assemble cut)

When you add a further recording to a cassette, which already has a recording on it, a short blank (flicker) can appear between the old and the new recording or the picture itself can flicker. To help reduce these from occurring, proceed as follows:

- 1 Find the tape position of the old recording where you want to insert the new recording.
- 2 Look at the last minute of the old recording (playback).
- 3 Press PAUSE ■■ at the tape position where the new recording is to go and press RECORD ●.
- 4 Now start recording as usual by pressing RECORD ● on the remote control.
- 5 Stop recording with STOP ■.

Selecting the recording speed (SP or LP)

LP allows to double the recording duration on tape (for example six hours instead of three hours on an E180 cassette).

- 1 Switch on the TV set. If required, select the programme number for the DVD/VCR.
- 2 Press DISC/VCR MENU. The main menu will appear.
- 3 Select "RECORD SETUP" using ▲/▼ and confirm with ►.
- 4 Select "RECORD SPEED" using ▲/▼.
- 5 Select the required recording speed with ►.

```

SELECT ▲▼ CHOOSE ►
→ RECORD SPEED [SP]
  DIRECT RECORD [OFF]
  RECORD LINK   [OFF]

END=EXIT
    
```

'SP' / 'LP' / 'AUTO'

'SP': Standard Play (normal recording speed) offers the usual first-class picture quality.
 'LP': Long Play (half recording speed, double recording time). 6 hours can be recorded on a 3-hour cassette (E180) with a somewhat reduced picture quality.
 'AUTO': AUTOMATIC Long Play. If there is not enough space on the tape to record a programmed recording in standard speed, the recording is automatically done in 'LP' (Long Play). Otherwise, the recording speed will be 'SP' (Standard Play).

- 6 To end, press STATUS/EXIT.

Automatic controlled recording from a satellite receiver (RECORD LINK)

This function automatically starts recording on the switched-off DVD/VCR when a video signal is recognised through the connected scart cable. If your satellite receiver has a programming function, the recording will start automatically (as long as the satellite receiver is switched on).

- 1 Use a scart cable to connect scart socket AV2(DECODER) on the DVD/VCR to the corresponding scart socket on the satellite receiver.
- 2 Switch on the TV. If required, select the programme number for the DVD/VCR.
- 3 Press DISC/VCR MENU. The main menu will appear.
- 4 Select "RECORD SET UP" with ▲/▼ and confirm with ►.
- 5 Select "RECORD LINK" with ▲/▼.
- 6 Select function "[ON]" with ►.

Switching off 'RECORD LINK'

To switch off the function, select 'OFF' with .

- 7 To end, press STATUS/EXIT.
- 8 Insert a cassette.
- 9 Programme the satellite receiver with the required information (programme number of the TV channel, start time, end time). If necessary, please see the operating instructions for your satellite receiver.

```

SELECT ▲▼ CHOOSE ►
  RECORD SPEED [SP]
  DIRECT RECORD [OFF]
  → RECORD LINK [OFF]

END=EXIT
    
```

- 10 Press TIMER SET. The DVD/VCR is now ready to record. The beginning and end of the recording is controlled via scart socket AV2(DECODER).

DIRECT RECORD

With DIRECT RECORD, you can record the right TV channel in seconds even if your DVD/VCR is switched off. If the recording is started manually, the DVD/VCR uses the current TV channel set on the TV. You will find more information on how to switch 'DIRECT RECORD' on or off in the next section. Make sure that your DVD/VCR socket (AV1/TV) and the TV are connected by a scart cable.

- 1 On the TV, select the programme number you want to make the recording from.
- 2 Press RECORD ● with the DVD/VCR switched off.
- 3 Stop recording with STOP ■.

How does DIRECT RECORD work?

The DVD/VCR compares the TV channel selected on the TV with its stored TV channels via the scart cable. If the same TV channel is found, it switches the DVD/VCR to the corresponding programme number and starts recording. Please do not change the TV channel on the TV during the search so as not to affect the process.

Switching 'DIRECT RECORD' on or off

- 1 Switch on the TV. If required, select the programme number for the DVD/VCR.
- 2 Press DISC/VCR MENU. The main menu will appear.
- 3 Select "RECORD SET UP" with ▲/▼ and confirm with ►.
- 4 Select "DIRECT RECORD", with ▲/▼. Select "[OFF]" (Direct Record off) or "[ON]" (Direct Record on) with ►.
- 5 To end, press STATUS/EXIT.
- 6 Press STANDBY-ON.

```

SELECT ▲▼ CHOOSE ►
  RECORD SPEED [SP]
  → DIRECT RECORD [OFF]
  RECORD LINK   [OFF]

END=EXIT
    
```

Direct dubbing

Follow the steps below to copy a DVD or video disc to a videotape. This will be possible only if the DVD is not copy protected.

- 1 Put a videotape in the cassette compartment. Make sure the tape's record tab is intact and the tape is long enough to record the disc.
- 2 Press VCR.
- 3 Select the recording speed.
Details are at "Selecting the recording speed (SP or LP)".
- 4 Put the DVD you want to copy in the disc tray.
- 5 Press DVD.
- 6 Press PLAY ►. While disc is playing, press PAUSE ■■ at the point you wish to start recording.
- 7 Press DIRECT DUBBING to record.

To pause the recording.

Press PAUSE ■■.

To resume recording.

Press PAUSE ■■ again.

To stop the recording.

Press STOP ■.

Copying a video tape

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

WARNING:

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

Connect the recording DVD/VCR (this unit) and the playback video recorder (another video recorder) by using scart socket AV2 (DECODER) or FRONT AUDIO/VIDEO in jacks.

- 1 Insert a pre-recorded video cassette into the playback DVD/VCR.
- 2 Insert a blank video cassette, or one you want to record over, into the cassette compartment of this DVD/VCR.
- 3 Select programme number 'AV2' or 'AV3' on this DVD/VCR.

Programme numbers of 'AV2' scart socket and FRONT AUDIO/VIDEO in jacks

If you are using the scart socket AV2 (DECODER), select programme number 'AV2' with 0.0.2.

If you are using the FRONT AUDIO/VIDEO in jacks, select programme number 'AV3' with 0.0.3.

- 4 Press RECORD ● on the front panel of this DVD/VCR.
- 5 Begin playback of the tape in the playback DVD/VCR.
- 6 To stop recording, press STOP ■ on this DVD/VCR, then stop playback of the tape in the playing DVD/VCR.

- For the 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.

General information

Use a TIMER programming to automatically start and stop a recording at a later time or date. The DVD/VCR will switch to the right programme number and begin recording at the correct time. With this DVD/VCR, you can pre-programme up to eight recordings within a period of one year. To make a programmed recording, your DVD/VCR needs to know:

- * the date you want to make the recording
- * the programme number of the TV channel
- * the start and stop time of the recording
- * VPS or PDC on or off

This information is saved in a TIMER block.

What is 'VPS/PDC'?

'VPS' (Video Programming System)/ 'PDC' (Programme Delivery Control) are used to control the start and duration of TV channel recordings. If a TV programme starts earlier or ends later than scheduled, the DVD/VCR will turn on and off at the correct time.

What do I need to know about 'VPS/PDC'?

Usually the VPS or PDC time is the same as the start time. But if your TV guide shows a VPS or PDC time which is different from the programme's scheduled start time, e.g. 20.10 (VPS/PDC 20.14), you must enter the VPS/PDC time exact to the minute. If you want a start time different from the VPS/PDC time, you must switch VPS/PDC off.

Programming a recording (with the 'VIDEO Plus+ system')



You no longer need to tediously enter the date, programme number, start and end time. All the information needed for programming is contained in the Plus Code programming number. You can find this Plus Code programming number in most TV listing magazines written next to the concerned programme.

- 1 Press SV/V+.

VIDEO Plus+ system

PlusCode No.

12345 ----

SET=SV/V+
CORRECT=CLEAR
END=EXIT

VIDEO Plus+ system

→ ONCE
DAILY
WEEKLY

SELECT ▲ ▼ CHOOSE ►
END=EXIT

Error message: 'FULL'

- If this error message appears after pressing , then all TIMER blocks are already programmed. No more recordings can be programmed. If you want to clear a programmed recording (TIMER block), select the programme number on TIMER LIST menu and press .

- 2 Enter the entire Plus Code number. This number is up to 9 digits long and can be found next to the start time of the TV programme in your TV listing magazine. [e.g. 1-234-5 or 1 234 5] If you make a mistake, you can clear your input with CLEAR.
- 3 Press SV/V+.
- 4 Select "ONCE", "DAILY", or "WEEKLY" recording with ▲/▼. Then press ►.

Selecting ONCE/ DAILY/ WEEKLY recordings

"ONCE": Recording once

"DAILY": Repeated daily recordings
(Monday to Friday)

"WEEKLY": Repeated weekly recordings
(every week on the same day)

- 5 The decoded data appears after confirmation. You can go back to change the data. Select the corresponding input field using ► or CLEAR. Change the data with numerical key pads.

Programming a Recording (TIMER)

"-" appears at PROG..

- The programme number of the TV channel has not yet been assigned to the Plus Code number. Using numerical key pads, select the corresponding programme number (name) of the TV channel.

The following message appears on the screen: "ERROR"

- The entered Plus Code number is incorrect. Correct your input or end with STATUS/EXIT.
- Check the time/date (see chapter 'Installing your video', section 'Setting the time and date').
- A daily recording was entered for the wrong day. Daily programming can only be used for recordings to be made from Monday to Friday.

Switching on "VPS/PDC"

- Select "VPS/PDC" using ►► or CLEAR. Press 1 to switch off "VPS/PDC" or press 2 to switch on "VPS/PDC".

- When all inputs are correct, press STATUS/EXIT. The programming information is stored in a Timer block.

The following message appears on the screen: "TIMER NOT COMPLETED"

- The channel is wrong.

- Insert a cassette with an intact security tab (unprotected).
- Press TIMER SET.
'RECORD TIMER' will light up on the DVD/VCR.

Programming a recording (without the VIDEO Plus+ system)

- Press VCR, then DISC/VCR MENU.
- Select "TIMER" with ▲/▼. Then press ►.
- Select "ONCE", "DAILY", or "WEEKLY" recording with ▲/▼. Then press ►.
If all Timer blocks are in use, 'FULL' will appear on the OSD.
- Select the desired Timer block with numerical key pads. (The flashing number indicates an empty TIMER block.)
- Enter the Start time (START) End time (STOP), Programme number (PROG.), VPS/PDC information and the Date with numerical key pads.

SELECT ▲▼ CHOOSE ►
→ ONCE
DAILY
WEEKLY
TIMER LIST
END=EXIT

Programme numbers of the 'AV1', 'AV2' scart socket and 'AV3' (front AUDIO/VIDEO in jacks)

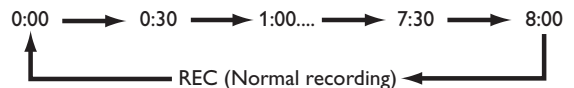
You can also programme recordings from external sources via scart socket AV1(TV), AV2 (DECODER) or AV3 (front AUDIO/VIDEO in jacks). Select programme number 'AV1' with 0.0.1, 'AV2' with 0.0.2 or 'AV3' with 0.0.3.

- When all inputs are correct, press STATUS/EXIT. The programming information is stored in a TIMER block.
- Insert a cassette with an intact security tab (unprotected).
- Press TIMER SET.

OTR (One Touch Recording)

This function enables you to set a recording length simply by pressing RECORD ●.

- Follow steps 1 to 2 in 'Recording without automatic switch-off' section.
- Press RECORD ● repeatedly until the desired recording length appears in the upper left corner of the TV screen.



- Recording stops when 0:00 is reached.

To check time remaining during an OTR

Press DISPLAY.

To change the recording length during an OTR

Press RECORD ● repeatedly until the desired length appears.

To stop an OTR before recording is finished

Press STOP ■.

To cancel the OTR but continue recording

Press RECORD ● repeatedly until "REC" appears in the upper left corner of the TV screen.

Programming a Recording (TIMER)

How to check, or delete a programmed recording (TIMER)

- 1 Press VCR, then DISC/VCR MENU.
- 2 Press ▲/▼ to select "TIMER". Then press ►.
- 3 Press ▲/▼ to select "TIMER LIST", then press ►.
- 4 Select timer block with ►.

```
SELECT ▲▼ CHOOSE ►
  ONCE
  DAILY
  WEEKLY
  →TIMER LIST
END=EXIT
```

Timer block disappeared when I pressed ►►.

You have checked all the programmed recordings. If you want to check them again, repeat steps 1 to 4.

- 5 To cancel the recording, press CLEAR.
- 6 To end, press STATUS/EXIT.
- 7 Press TIMER SET.

How to change a programmed recording (TIMER)

- 1 Press VCR, then DISC/VCR MENU.
- 2 Press ▲/▼ to select "TIMER", then press ►.
- 3 Press ▲/▼ to select "ONCE", "DAILY", or "WEEKLY" recording with ▲/▼, then press ►.
- 4 Select a TIMER block with numerical key pads. (The flashing number indicates an empty TIMER block.)
- 5 Press CLEAR to delete information and input correct information with numerical key pads.
- 6 To end, press STATUS/EXIT.
- 7 Press TIMER SET.

```
ONCE
TIMER - 1 2 3 4 5 6 7 8 -
SELECT TIMER NUMBER
END=EXIT
```

Hint for Timer Recording

- If there is a power failure or the DVD/VCR is unplugged for more than 1 minute, 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 TIMER light blinks. (If the DVD power is off, the DVD/VCR will become the STANDBY status).
- If a tape is not in the DVD/VCR or does not have a record tab, the TIMER light flashes and timer recording will not operate. Please insert a recordable tape.
- When timer recordings are set, the TIMER light will come on. To use the DVD/VCR as usual until the time for the recording, press TIMER SET so that the TIMER light disappears. Press DVD/VCR to choose VCR or DVD modes, then continue with the other features as described in this manual.

'PRESS TIMER SET BUTTON FOR TIMER RECORDING' appears on the screen

- * Press TIMER SET on several minutes before the start of a programmed recording.

Switching the status display off or on

Along with the on screen menu, the status display also displays information on the current operating status (counter, playback, recording, TV channel, etc.) on the TV screen. You can switch off the information about the operating status so that the status display is not recorded when copying videocassettes.

- 1 Press VCR, then DISC/VCR MENU.
- 2 Press ▲/▼ to select "VCR SET UP", then press ►.
- 3 Press ▲/▼ to select "STATUS DISPLAY", then press ►.
- 4 Press ▲/▼ to select "[ON]" or "[OFF]", then press ►.
- 5 To end, press STATUS/EXIT.

SELECT ▲ ▼ CHOOSE ►
→STATUS DISPLAY [ON]
BLUE BACKGROUND [ON]
CLOCK DISPLAY [ON]
END=EXIT

Which settings can I choose?

"ON": Shows the status display for a few seconds only.
 "OFF": Switches off the status display.

Blue Background on or off

If you want the TV screen to be solid blue when a weak signal is received, set "BLUE BACKGROUND" to "[ON]". The screen will be blue and the sound will be muted. Or, if you want to receive the weak signal, set "BLUE BACKGROUND" to "[OFF]".

- 1 Press VCR, then DISC/VCR MENU.
- 2 Press ▲/▼ to select "VCR SET UP", then press ►.
- 3 Press ▲/▼ to select "BLUE BACKGROUND", then press ►.
- 4 Select "[OFF]" (no blue background) or "[ON]" (blue background on) with ►.
- 5 To end, press STATUS/EXIT.

SELECT ▲ ▼ CHOOSE ►
STATUS DISPLAY [ON]
→BLUE BACKGROUND [ON]
CLOCK DISPLAY [ON]
END=EXIT

Clock Display

This function allows you to switch the DVD/VCR display off. It is useful in case you feel disturbed by the display-brightness while watching TV in a dark room. It also reduces the power consumption.

- 1 Press VCR, then DISC/VCR MENU.
- 2 Press ▲/▼ to select "VCR SET UP", then press ►.
- 3 Press ▲/▼ to select "CLOCK DISPLAY", then press ►.
- 4 Select "[OFF]" (no clock display) or "[ON]" (clock display on) with ►.
- 5 To end, press STATUS/EXIT.

SELECT ▲ ▼ CHOOSE ►
STATUS DISPLAY [ON]
→BLUE BACKGROUND [ON]
→CLOCK DISPLAY [ON]
END=EXIT

Selecting the sound channel

You can select the desired sound channel during playback or while receiving TV channels via the DVD/VCR. This allows you to select a desired language for multi-language transmissions.

- 1 Press AUDIO. This will show the current sound setting.
- 2 Press AUDIO repeatedly until the desired setting appears in the display.

• Reception of stereo broadcasts:

Mode	AUDIO OUTPUT		Display on the TV screen
Stereo	L	L Audio	STEREO
	R	R Audio	
L	L	L Audio	LEFT
	R	L Audio	
R	L	R Audio	RIGHT
	R	R Audio	
Monaural	L	L+R Audio	NONE
	R	L+R Audio	

• During playback of the recorded tape in Hi-Fi mode:

Mode	AUDIO OUTPUT		Display on the TV screen
Stereo	L	Hi Fi L Audio	STEREO
	R	Hi Fi R Audio	
L	L	Hi Fi L Audio	LEFT
	R	Hi Fi L Audio	
R	L	Hi Fi R Audio	RIGHT
	R	Hi Fi R Audio	
Monaural	L	Normal Audio	MONO
	R	Normal Audio	
MIX	L	Hi Fi L Audio + Normal Audio	MIXED
	R	Hi Fi R Audio + Normal Audio	

• During reception of bilingual broadcasts:




Mode	AUDIO OUTPUT		Display on the TV screen
MAIN	L	Main Audio	MAIN
	R	Main Audio	
SUB	L	Sub Audio	SUB
	R	Sub Audio	
MAIN SUB	L	Main Audio	MAIN SUB
	R	Sub Audio	

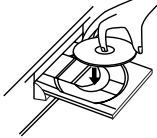
Playing a Disc

Basic Playback


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 STANDBY-ON.
- 2 Press DVD, then OPEN/CLOSE to open disc loading tray.
- 3 Place the chosen disc in 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 which a title menu is recorded, it may appear on the screen. In this case, refer to 'TITLE MENU'.
- 5 Press STOP  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.
- DVDs recorded with the NTSC system can playback with this unit via a PAL system TV set.
- Depending on the TV, when playing back a NTSC DVD on a PAL TV, the picture may roll up or down, shrink vertically and black bars may appear at the both top and bottom of the screen.
- It may take a time to deliver the picture or the sound. This is not a malfunction.

Cancelling and Calling Back PBC Function

When playing Video CDs with PBC function, some operations (e.g. select and repeat tracks) cannot be performed unless the PBC function is cancelled temporarily.

- 1 Insert a Video CD.
 - Title menu will appear on the display.
 - Playback will start automatically.
- 2 Press STOP .
- 3 Press the **number buttons** to enter the desired Track number.
 - PBC function is now cancelled and the playback of the Video CD will start.
- 4 To call back PBC function, press STOP  **twice**, and then press PLAY .



General Features

DVD or Video CDs may contain menus to navigate the disc and access special features. Press the appropriate numerical key pads or use Arrow ( /  /  / ) to highlight your selection in the DVD main menu and press OK 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.






Pause

- 1 During playback, press PAUSE .
 - Playback will pause and sound will be muted.
- 2 To continue playback, press PLAY .






Note:

- Set "STILL MODE" to "FIELD" in the Display menu if pictures in the pause mode are blurred. (refer to 'DISPLAY SETTING')

Disc Menus

- 1 Press DVD, then DISC/VCR 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 Arrow ( /  /  / ) to select an item, and "OK" to confirm selection.

Title Menu

- 1 Press DVD, then TITLE.
 - The title menu will appear.
- 2 If the feature is not available, "  " symbol may appear on the TV screen.
- 3 Press Arrow ( /  /  / ) to select an item, and "OK" to confirm selection.
 - Playback will begin at the selected Title.

- 1 The title menu will appear.
- 2 Press numerical key pads to select the menu.
 - Playback will start.



Calling Up a Menu During Playback

- Press DISC/VCR MENU to call up the DVD main menu.
- Press TITLE 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

- 1 During playback, press PAUSE .
 - Playback will pause and sound will be muted.
- 2 The disc goes forward by one frame each time PAUSE is pressed.
- 3 To exit step by step playback, press PLAY .

Note:

- Set 'STILL MODE' to 'FIELD' in the DISPLAY menu if pictures during step by step playback are blurred. (refer to 'DISPLAY SETTING')




Resume

- 1 During playback, press STOP .
 - Resume message will appear on the TV screen.
- 2 Press PLAY , playback will resume from the point at which playback was stopped.
 - To cancel resume, press STOP  **twice**.

Notes:

- For MP3 files, playback will resume from the beginning of the track at which playback was stopped.
- If you turn the DVD/VCR off, Resume function will be cancelled.

Fast Forward / Reverse Search

- 1 During playback, press  or  repeatedly to select the required forward or reverse speed.
 - For DVDs and Video CDs, fast forward or reverse search speed is different depending on the disc.
 - For DVDs, approximate speed is 1(x2), 2(x8), 3(x50), and 4(x100).
 - For Video CDs, approximate speed is 1(x2), 2(x8), and 3(x30).
 - For Audio CDs, approximate speed is x16.
 - For MP3, approximate speed is x8.
- 2 To return to normal playback, press PLAY .

Slow Forward / Slow Reverse DVD-V VCD

- 1 During playback, press PAUSE **II**.
- 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 varies with the disc. Approximate speed is 1(1/16), 2(1/8), and 3(1/2).
- 4 To return to normal playback, press PLAY **▶**.

Notes:

- **Slow Reverse is not available on Video CDs.**
- **Set 'STILL MODE' to 'FIELD' in the DISPLAY menu if pictures in the slow motion playback mode are blurred. (refer to 'DISPLAY SETTING')**

Zoom DVD-V VCD JPEG

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 Arrow (**▼** / **▲** / **▶** / **◀**) to move the zoomed picture across the screen.
- 4 To exit zoom mode, press ZOOM to OFF.

Notes:

- **If you press OK, the zoom position window appears at the bottom-right on the TV screen. If you press it again, that (the zoom position) window disappears.**
- **Zooming function does not work while disc menu is shown.**
- **x4 zoom is not available on some discs.**
- **only x2 zoom is available on Video CDs.**

Track CD VCD MP3 JPEG

There are three ways to begin the playback of a specific track.

Using the Numerical key pads

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

Using SEARCH MODE

- 1 Press SEARCH MODE.
 - The Track Search display appears.
- 2 Within 30 seconds, select a desired track number using the numerical key pads. For single or two digit track number, press **0** first.
 - Playback will start at the selected track.

Using ◀▶ buttons.

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

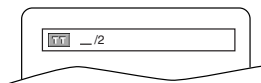
- Track number will appear briefly on the front panel display.
- If **▶** are pressed while the playback is paused, the playback will be paused again after skipping to the next track.

Note:

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

Title / Chapter Search DVD-V

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



Using the Numerical key pads

- 1 During playback, press the numerical key pads to enter the desired chapter number.
 - Playback will start at the selected chapter.
 - For single digit chapters (1-9), press a single number (e.g. To play chapter 3, press 3).
 - To play chapter 26, press **+10, 2, 6**.

Note:

- **Depending on the disc being played, using the numerical key pad cannot be performed.**

Using ◀▶ buttons.

During playback, press **▶** to go to the next chapter. Press it repeatedly to skip subsequent chapters. Press **◀** to go back to the beginning of the current chapter. Press it repeatedly to go back to the previous chapter.

Time Search DVD-V CD VCD

- 1 During playback, press SEARCH MODE repeatedly until the Time Search screen appears on the TV screen.
- 2 Within 30 seconds, enter a desired disc time using the numerical key pads.
 - Playback will start at the specified time.
 - For DVDs, enter a desired time of the current title.
 - For audio CDs and Video CDs, enter a desired time of the current track.
- 3 Press CLEAR to erase the incorrect input.

Notes:

- **"0" appears automatically when there is no need to enter a number. For example, "0:0_:_ " appears automatically in the Time Search display if the total time of the disc is less than 10 minutes.**
- **Time Search is not available on some discs.**

Repeat

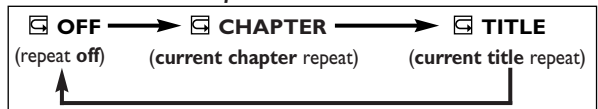
- REPEAT are available only during playback.

Repeat Title / Chapter DVD-V

To activate the repeat function, press REPEAT during playback. The repeat mode changes as described below every time you press the button.

Notes:

- **Repeat Title/Chapter is not available with some scenes.**
- **The REPEAT setting will be cleared when moving to other title or chapter.**



Repeat Track CD VCD

To activate the repeat function, press REPEAT during playback. The repeat mode changes as described below every time you press the button.

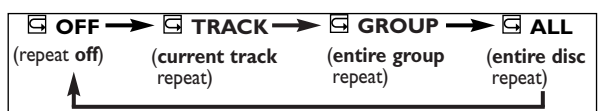
Notes:

- **The REPEAT setting will be cleared when moving to other track.**
- **Repeat playback does not function during repeat A-B playback.**
- **Repeat playback is not available when you play the Video CD with PBC function.**

[CD, VCD]



[MP3, JPEG]



Repeat at A-B DVD-V CD VCD

- 1 Press REPEAT A-B at your chosen starting point.
 - **A-** appears briefly on the TV screen.
- 2 Press REPEAT A-B 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 REPEAT A-B.

Notes:

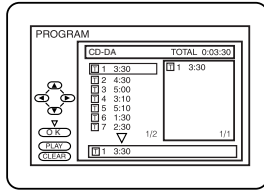
- **The repeat A-B section can only be set within the current title (for DVDs), or current track (for audio CDs).**
- **Repeat A-B is not available with some scenes in DVD.**
- **To cancel the A point which was set, press CLEAR.**
- **Repeat A-B playback does not function during title, chapter, track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

Playing a Disc



Program

You may determine the order in which tracks will be played.

- In stop mode, press MODE.
 - The PROGRAM screen will appear.
- Press ▲ or ▼ to select a track, then press OK.
 - Up to 99 programmes can be stored.
 - Press CLEAR to erase the most recently entered programme.
 - To erase all programmes at once, select "ALL CLEAR" at the bottom of the list and press OK.
 - When selecting an MP3 file or folder, use Arrow as follows:
 - Press ► to go the next hierarchy.
 - Press ◀ to go back to the previous hierarchy.
 - To check programmed tracks or files, ◀, ► to change the pages.
- Press PLAY ► to start the programmed playback.



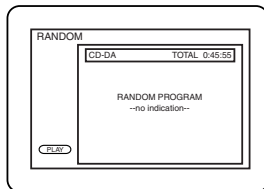
Notes:

- While a programme is being played back, STOP ■ works as follows:
 - Press STOP ■, and then PLAY ► next, so that the programmed playback restarts.
 - (CD playback restarts from the current position. MP3 playback restarts from the beginning of the current track.)
 - Press STOP ■ twice and PLAY ► next, so that playback restarts from the first track in the original order. However, your programmed playback can be restarted when you follow the above steps. (Your programmes are still stored unless either the disc tray is open or the unit is turned off.)
- To repeat the current track in the program, press REPEAT repeatedly until  TRACK appears during playback.
- To repeat the entire programme press REPEAT repeatedly until  ALL appears during playback.



Random Playback

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

- In stop mode, press MODE twice.
 - RANDOM screen appears.
- Press PLAY ► to start random playback.



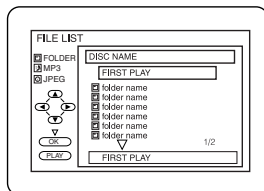
Note:

- If you like to repeat the current track in the random selection, press REPEAT repeatedly until  TRACK appears during playback. If you like to repeat the entire random selection press REPEAT repeatedly until  ALL appears during playback.

MP3/JPEG Playback

Insert an MP3 or JPEG disc, then press MENU to call up the MP3 or JPEG menu on the TV screen.

- In stop mode, press ▲ or ▼ to select the desired group, MP3 track or JPEG file.
 - If a group is selected, press PLAY ► or OK to go on to the track selection screen. Press ▲ or ▼ to choose a track, then press PLAY ► or OK.
 - If a track is selected, press ► or OK to start playing from the track.
 - Press TITLE to return to the first item.
- Press STOP ■ to stop playback.



Notes:

- Folders are known as Groups; files are known as Tracks.
- The "□" symbol is shown on the top of the group name.
- The "■" symbol is shown on the top of MP3 files.
- The "□" symbol is shown on the top of JPEG files.

- The system can recognize up to 255 groups/ folders and up to 512 tracks/ files, and this applies even to the case where mixed MP3 and JPEG files are recorded.

- Up to 8 hierarchies can be created.
- If a JPEG file is selected, the image will be reproduced from the selected track and go to the next one in turn. A track is displayed for five seconds and then the next track is displayed.

Each press on the cursor button ► will rotate the image clockwise by 90 degrees when an image is displayed. Each press on the cursor button ◀ will rotate the image counterclockwise by 90 degrees.

For best results use files recorded at these specifications:

[MP3]

- Sampling frequency: 44.1kHz or 48kHz
- Constant bit rate: 112kbps ~ 320kbps.

[JPEG] size of image

- Upper limit: 6,300 x 5,100 dots.
- Lower limit: 32 x 32 dots.


Slide Show Mode

You can switch to the slide show mode during playback.

- Press the MODE button during playback.
 - The slide show mode screen will appear.
 - The slide show mode cannot be switched when it is stopped, or from the file list screen.
- Press the OK button.
 - The slide show mode will change.
 - CUT IN/OUT: The entire image appears in one time.
 - FADE IN/OUT: The image appears gradually and then disappears.
- Press the MODE button to exit.

On-Screen Information

You can check the MP3 or JPEG files during playback.

- Press DISPLAY.
 - The name of the file currently in play will be displayed.
- Press DISPLAY again to show the track number, the elapsed time, the repeat status, and the playback status at the top of the screen.
 -  will be displayed when the repeat play has been selected.
 - T- indicates Track repeat
 - G- indicates Group (folder) repeat
 - A- indicates Disc repeat
- Press DISPLAY again to exit.

Audio Language

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

- Press AUDIO during playback.
- 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 or subtitle language setting in the disc menu. (Operation varies depending on the disc, so refer to the manual included in the disc.)

Stereo Sound Mode

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

STEREO - both right and left channels are active (stereo)
L-CH - only left channel is active
R-CH - only right channel is active

Notes:

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

Subtitle Language DVD-V

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

- 1 Press DVD, then 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 SUBTITLE repeatedly 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 audio language or subtitle language setting in the disc menu. (Operation varies depending on the disc, so refer to the manual included in the disc.)**

Camera Angle DVD-V

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

- 1 Press DVD, then 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-V

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 VCD

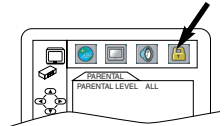
- 1 Press DISPLAY during playback, the current track will be displayed on the TV screen.
 - The elapsed and remaining time of the current track will be displayed.
- 2 Press DISPLAY again to show the total time of the disc.
 - The elapsed and remaining time of the current total track will be displayed.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

Parental Control DVD-V

Parental Control limits the DVD viewing that exceeds your settings. The password is required to change the "PARENTAL LEVEL".

This feature prevents your children from viewing inappropriate materials.

- 1 Press SYSTEM MENU in stop mode.
- 2 Press ◀ or ▶ to select "CUSTOM", then press OK.
 - CUSTOM mode screen will appear.
- 3 Press ◀ or ▶ to select "PARENTAL", then press OK.
- 4 Press the numerical key pads to enter your 4-digit password.
 - When doing this for the first time, enter any 4-digit number by pressing the numerical key pads (except for 4737), then press OK. That number will be used as the password from the second time onward. Record your password in case you forget it.
 - If you forget the password, press 4, 7, 3, 7. The original password will be cleared and parental levels will be set to "ALL". Enter a new 4-digit password, then press OK.
- 5 Press ▲ or ▼ to select "PARENTAL LEVEL", then press OK.
- 6 Press ▲ or ▼ to select the desired level, then press OK. For details, see below.
- 7 Press SYSTEM MENU to exit.



PARENTAL LEVEL

- "ALL" : All parental locks are cancelled.
- "8" : DVD softwares of any grades (adult/general/children) can be played back.
- "7 to 2" : Only DVD softwares intended for general use and children can be played back.
- "1" : Only DVD softwares intended for children can be played back.

Notes:

- **This function may not work on some DVDs. Make sure if the parental lock function operates in the way you have set.**

To Change the Password

- 1 Follow the steps 1 to 4 above.
- 2 Press ▲ or ▼ to select "CHANGE", then press OK.
- 3 Enter a new 4-digit password, then press OK.
- 4 Press SYSTEM MENU to exit.

Marker Setup Screen DVD-V CD VCD

Use markers to memorise your favourite places on a disc.

- 1 During playback, press SEARCH MODE repeatedly until the Marker Setup screen appears on the TV screen.
- 2 Press ◀ or ▶ to select 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10 and ensure that "- - - - -" appears in the display.
- 3 When you reach the desired point, press OK.
 - The Title or Track and elapsed time will appear on the TV screen.
- 4 To return to a marker later, press SEARCH MODE repeatedly until the Marker Setup screen appears and ◀ or ▶ to choose the desired marker, then press OK.

Notes:

- **Opening the disc tray, turning off the power or selecting "AC" at step 2 and press OK 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.

DVD Setup

Audio Setting

Choose the appropriate Audio settings for your equipment as it only affect during the playback of DVD discs of the DVD/VCR.

- 1 Press SYSTEM MENU in stop mode.
- 2 Press ► to select CUSTOM, then press OK. CUSTOM mode will appear.
- 3 Press ◀ or ▶ to select AUDIO, then OK to confirm.
- 4 Press ▲ or ▼ to select the below items, then press OK.

DRC (Dynamic Range Control) :

To compress the range of sound volume. The default setting is ON.

Dolby Digital : QUICK

Set to ON when the player is connected to Dolby Digital Decoder. (ON : Output by Dolby Digital) (OFF : Convert the Dolby Digital to PCM) The default setting is ON.

DOWN SAMPLING :

Set to ON when outputting in 48kHz. The default setting is ON.

When playing disc with copyright Protection

- If you select OFF, copyright protection will be activated and sound will be down sampled at 48kHz.

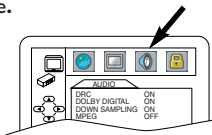
MPEG :

Set to ON when the player is connected MPEG Decoder. (ON: Output by MPEG)

(OFF: Convert the MPEG to PCM)

- The default setting is OFF.

- 5 Press SYSTEM MENU to exit.



Virtual Surround DVD-V VCD CD MP3

You can enjoy stereophonic visual space on your existing stereo system.

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



Note (for CD and DVD play only):

- Virtual Surround will not be effective if the sound mode is set to something other than STEREO.

Language Setting DVD-V

Language options are not available with some discs.

- 1 Press SYSTEM MENU in stop mode.
- 2 Press ► to select "CUSTOM", then press OK. "CUSTOM" mode will appear.
- 3 Press ◀ or ▶ to select "LANGUAGE", then OK to confirm.
- 4 Press ▲ or ▼ to select the below items, then press OK.

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 OK.
 - If OTHER 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 on back inside cover).
 - Only the languages supported by the disc can be selected.
- 6 Press SYSTEM MENU to exit.

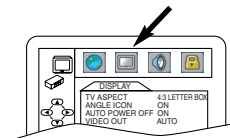
Note:

- Language Setting for Audio and Subtitle is not available with some discs. Then use AUDIO and SUBTITLE. Details are on pages 16-17.

Display Setting DVD-V

You can change the display functions.

- 1 Press SYSTEM MENU in stop mode.
- 2 Press ◀ or ▶ to select "CUSTOM", then press OK.
 - CUSTOM mode screen will appear.
- 3 Press ◀ or ▶ to select "DISPLAY", then OK to confirm.
- 4 Press ▲ or ▼ to select the below items, then press OK.
- 5 Press SYSTEM MENU to exit.



TV ASPECT : QUICK

4:3 LETTER BOX :When viewing a 16:9 picture on a 4:3 aspect TV screen, black bars appear on the top and bottom of the screen.

4:3 PAN & SCAN :When viewing a 16:9 on a 4:3 aspect TV screen, a full height picture with both sides trimmed is presented.

16:9 WIDE : if a wide-screen TV is connected to this unit, select this setting.

- Press ▲ or ▼ to select a setting, then press OK.
- The default setting is "4:3 LETTER BOX".

STILL MODE :

AUTO : select it usually.

FIELD : pictures in the Still mode will be stabilized although they will be coarse due to a little amount of data.

FRAME : pictures in the Still mode will be highly defined although they will be blurred due to outputting two fields at the same time.

- Press ▲ or ▼ to select an option, then press OK.
- The default setting is "AUTO".

ANGLE ICON :

ON : to show the angle icon when multiple camera angles are available during DVD playback.

OFF : to hide the angle icon.

- Press OK repeatedly to select "[ON]" or "[OFF]".

- The default setting is "ON".

AUTO POWER OFF :

ON : to turn off the unit automatically after 35 minutes of no use.

OFF : to keep this unit on.

- Press OK repeatedly to select "[ON]" or "[OFF]".

- The default setting is "[ON]".

VIDEO OUT :

AUTO : to change video out system (PAL/NTSC) automatically according to the format of an inserted disc.

PAL : to view pictures of the discs recorded with PAL system.

- Press OK repeatedly to select "PAL" or "AUTO".
- The default setting is "AUTO".

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

PLAYBACK SYSTEM

DVD Video
 Audio CD
 DVD+RW
 DVD-R/RW
 DVD+R
 CD-R/RW
 VIDEO CD

TV STANDARD (PAL/50Hz) (NTSC/60Hz)

Number of lines	625	525
Playback	Multistandard	(PAL/NTSC)

VIDEO PERFORMANCE

Video output	1 Vpp into 75 ohm
RGB (SCART) output	0.7 Vpp into 75 ohm
Video Shift	Left/Right

VIDEO CASSETTE RECORDER

Video heads	Four heads Hi-Fi
Antenna	VHF/UHF - 75 ohm
VHF output	75 ohm unbalanced

AUDIO FORMAT

Digital	MPEG	Compressed
	Dolby Digital	Digital
	PCM	16, 20, 24 bits
		fs, 44.1, 48, 96 kHz

Analogue Stereo Sound
 Dolby Surround-compatible downmix from Dolby Digital multi-channel sound
 3D Sound for virtual 5.1 channel sound on 2 speakers

AUDIO PERFORMANCE

DA Converter	24 bits	
DVD	fs 96 kHz	20 Hz - 44 kHz
	fs 48 kHz	20 Hz - 22 kHz
CD	fs 44.1 kHz	20 Hz - 20 kHz
Signal-Noise (1kHz)		70 dB
Dynamic Range (1kHz)		70 dB
Distortion and Noise (1kHz)		0.1%

CONNECTIONS

SCART	2x Euroconnector
S-Video Output	Mini DIN, 4 pins
Audio L+R output	2x Cinch (white/red)
Digital Output	1 coaxial, 1 optical
	IEC958 for CDDA / LPCM
	IEC1937 for MPEG1/2, Dolby Digital

CABINET

Dimensions (w x h x d)	435 x 99 x 218 mm
Weight	Approximately 3.8 Kg

POWER SUPPLY (UNIVERSAL)

Power inlet	220 - 240 V , 50 Hz
Power usage	Approx. 30 W
Power usage standby	< 9.2 W
	(standby : 5.0 W)
	(When CLOCK DISPLAY set to OFF)

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, or antistatic spray intended for analogue records.

Cleaning the disc lens

- After prolonged use, dirt or dust may accumulate at the disc lens. To ensure good playback quality, clean the disc lens with Philips CD Lens Cleaner or any commercially available cleaner. Follow the instructions supplied with the cleaner.

WARNING

Under no circumstances should you try to repair the system yourself, as this will invalidate the warranty. Do not open the system as there is a risk of electric shock.

If a fault occurs, first check the points listed below before taking the system for repair.

Problem	Solution
No power	<ul style="list-style-type: none"> – Check if the AC power cord is properly connected.
No picture	<ul style="list-style-type: none"> – Check if the TV is switched on. – Check the video connection.
Distorted picture	<ul style="list-style-type: none"> – Sometimes a small amount of picture distortion may appear. This is not a malfunction.
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 SCART 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 edge. – This may happen when you use the disc recorded in the non-seamless manner. This is not a malfunction.
Disc can't be played	<ul style="list-style-type: none"> – Ensure the disc label is facing up. – Check if the disc is defective by trying another disc.
No return to start-up screen when disc is removed	<ul style="list-style-type: none"> – Reset the unit 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.
The DVD/VCR switches from DVD mode to VCR mode after 35 minutes	<ul style="list-style-type: none"> – Playback will stop for more than 35 minutes and no button is pressed.
The VCR do not record a TV program	<ul style="list-style-type: none"> – Make sure the tape has a record tab. – Make sure the DVD/VCR is in VCR position. – Check the TV and the DVD/VCR channel are similar.
The DVD/VCR do not perform a timer	<ul style="list-style-type: none"> – Make sure the recording start and stop times are set correctly. – Make sure the tape has a record tab. – Make sure the clock is set. – The DVD/VCR may not perform or continue a timer recording if the power fails for more than 1 minute.
The motor (cylinder) rotates even when tape playback is stopped	<ul style="list-style-type: none"> – To enable quick play mechanism, the cylinder will rotate for about five minutes. This is normal.
You cannot insert a tape	<ul style="list-style-type: none"> – Insert a tape, window side up with the record tab facing you. – Gently push on the center of the tape when putting into the DVD/VCR.
You cannot remove a tape	<ul style="list-style-type: none"> – Make sure the power plug is completely connected to a power outlet.
DVD/VCR ejects the tape when you press RECORD or TIMER SET for a timer recording.	<ul style="list-style-type: none"> – Make sure the tape has a record tab.

If you are unable to remedy a problem by following these hints, consult your dealer or service centre (HOTLINE).

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