VCR & DVD PLAYER   DVP3340V/17

User manual

STOP!

Thank you for choosing Philips.

Need help fast?

Read your Quick Use/Start Guide and/or Owner's Manual first for quick tips that make using your Philips product more enjoyable.
If you have read your instructions and still need assistance, you may access our online help at

www.philips.com/welcome

ARRÊT!

Philips vous remercie de votre confiance.

Besoin d'une aide rapide?

Les Guide d'utilisation rapide et Manuel de l'utilisateur regorgent d'astuces destinées à simplifier l'utilisation de votre produit Philips. Toutefois, si vous ne parvenez pas à résoudre votre probléme, vous pouvez accéder à notre aide en ligne à l'adresse

www.philips.com/welcome

ALTO!

Gracias por escoger Philips.

Necesita ayuda inmediata?

Lea primero la Guía de uso rápido o el Manual del usuario, en donde encontrará consejos que le ayudarán a disfrutar plenamente de su producto Philips. Si después de leerlo aún necesita ayuda, consulte nuestro servicio de asistencia en línea en

www.philips.com/welcome

PROGRESSIVE SCAN

DVD VIDEO

4 HEAD HI-FI STEREO
ONE TOUCH RECORDING • LONG PLAY

VHS HQ

PHILIPS

STANDBY ON

PHILIPS

Return your Product Registration Card or register online at www.philips.com/welcome today to get the very most from your purchase.

Registering your model with PHILIPS makes you eligible for all of the valuable benefits listed below, so don't miss out.

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*Proof of Purchase
Returning the enclosed card guarantees that your date of purchase will be on file, so no additional paperwork will be required from you to obtain warranty service.

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By registering your product, you'll receive notification - directly from the manufacturer - in the rare case of a product recall or safety defect.

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Congratulations on your purchase, and welcome to the "family!"

Dear PHILIPS product owner:

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products available today. We'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "famil y," y ouíre entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry. What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

Most importantly, you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome - and thanks for investing in a PHILIPS product.

P.S. To get the most from your PHILIPS purchase, be sure to complete and return your Product Registration Card at once, or register online at:

www.philips.com/welcome

Know these
safety *symbols*

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.

This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour èviter les choc èlectriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

For Customer Use
Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.
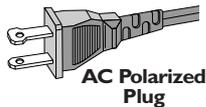
Model No. _____

Serial No. _____

PHILIPS *Visit our World Wide Web Site at http:// www.philips.com/welcome*

IMPORTANT SAFETY INSTRUCTIONS

1. **Read these instructions.**

2. **Keep these instructions.**

3. **Heed all warnings.**

4. **Follow all instructions.**

5. **Do not use this apparatus near water.**

6. **Clean only with dry cloth.**

7. **Do not block any ventilation openings. Install in accordance with the manufacturer´s instructions.**

8. **Do not install near any heat sources** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. **Do not defeat the safety purpose** of the polarized or grounding-type plug.
AC Polarized Plug
A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. **Protect the power cord** from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. **Only use attachments/accessories** specified by the manufacturer.

12. **Use only with the cart,** stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. **Unplug this apparatus** during lightning storms or when unused for long periods of time.

14. **Refer all servicing** to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. **Battery usage CAUTION** – To prevent battery leakage which may result in bodily injury, property damage, or damage to the unit:

● Install **all** batteries correctly, **+** and **-** as marked on the unit.

● Do not mix batteries (**old** and **new** or **carbon** and **alkaline**, etc.).

● Remove batteries when the unit is not used for a long time.

16. **Apparatus shall not be exposed to dripping or splashing.**

17. **Do not place any sources of danger on the apparatus** (e.g. liquid filled objects, lighted candles).

18. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. **For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance : www.eiae.org.**

LASER

Type	Semiconductor laser GaAIAs
Wave length	650~660 nm (DVD) 784~796 nm (CD)
Output Power	7 mW (DVD) 10 mW (VCD/CD)
Beam divergence	60 degree

Canada

English:
This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

Franaais:
Cet appareil numÈrique n'emet pas de bruits radioÈlectriques dÈpassant les limites applicables aux appareils numÈriques de Class B prescrites dans le RËglement sur le Brouillage RadioÈlectrique ÈdictÈ par le MinistËre des Communications du Canada.

This warning label is located on the erarside and inside this laser product.

CAUTION: INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.

DANGER: INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.

VARO! AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINANAKYMATTOMAALLE LASERSATEILYLLE. ALA KATSO SATEESEEN.

VARNING! OSYNLIG LASERSTRÄLNING NÄR DENNA DEL ÄR ÖPPNAD, OCH SPARREN AR URKOPPLAD, BETRAKTA EJ STRÄLEN.

or

DANGER - Invisible laser radiation when open. AVOID DIRECT EXPOSURE TO BEAM.

For Customer Use:
Read carefully the information located at the rear/bottom of your Recorder and enter below the Serial No. Retain this information for future reference.

Model No. DVP3340V/17
Serial No. _____

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Copyright Notice: The making of unauthorized copies of copy-protected material, including computer programs, files, brodcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offence.
This device should not be used for such purposes.

CAUTION

Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.

Due to the inconsistency of disc formats provided by various disc manufacturers, your DVD system may require a playability enhancement or upgrade. As DVD technology advances, these enhancements will become common and will be easy to complete.
Go to www.philips.com/welcome for software upgrade.

Contents

Introduction

To ensure proper use of this product, please read this owner's manual carefully and retain it for future reference.

This manual provides information on the operation and maintenance of your unit. Should the unit require service, contact an authorized service location.

Moisture Condensation

Never operate the unit immediately after moving it from a cold location to a warm location. Leave it unplugged for two or three hours without operating it. If you use the unit in such a situation, it may damage discs/tapes and internal parts.

Symbol Used in this Manual

Note: Indicates special notes and operating features.

Tip: Indicates tips and hints for making the task easier.

A section whose title has one of the following symbols is applicable only to the disc represented by the symbol.

ALL All discs listed below

DVD DVD and finalized DVD±R/RW

VCD Video CDs

ACD Audio CDs

MP3 MP3 files

WMA Windows Media^{TM} Audio files

About the ⃠ Symbol Display

" ⃠ " may appear on your TV display during operation and indicates that the function is not permitted by this unit or the disc.

Notes on Discs

Handling Discs
Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints do not get on the surface. Never stick paper or tape on the disc.

Storing Discs
After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat and never leave it in a parked car exposed to direct sunlight.

Cleaning Discs
Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.
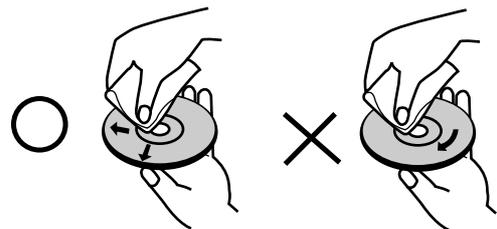
Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

Types of Playable Discs

DVD VIDEO™	DVD (8 cm / 12 cm disc)
COMPACT **disc** DIGITAL VIDEO	Video CD (VCD/SVCD) (8 cm / 12 cm disc)
COMPACT **disc** DIGITAL AUDIO	Audio CD (8 cm / 12 cm disc)

In addition, this unit plays DVD±R/RW and ZCD-R/RW, SVCD, Dual disc that contains audio titles, MP3, Windows Media™ Audio, and/or JPEG files.

Notes:

• Depending on the conditions of the recording equipment or the CD-R/RW (or DVD±R/RW) disc itself, some CD-R/RW (or DVD±R/RW) discs may not be played on the unit.

• Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal) since they may result in mal-functions.

• This DVD player requires discs and recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 or Windows Media™ Audio files) and these require certain pre-existing conditions (see above) to ensure compatible playback.

Customers should note that permission is required in order to download MP3 / Windows Media™ Audio files and music from the Internet. Our company has no right to grant such per-mission. Permission should always be sought from the copyright owner.

Regional Code

This unit has a regional code printed on the rear of the unit. This unit can play only DVD discs labeled as the same as the rear of the unit or "ALL".

Notes on Regional Codes

• Most DVD discs have a globe with one or more numbers in it clearly visible on the cover. This num-ber must match your DVD player's regional code or the disc cannot play.

• If you try to play a DVD with a different regional code from your player, the message "Check Regional Code" appears on the TV screen.

Notes on Copyrights:

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyright-ed material without permission. This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs. When recording and playing the pictures of these discs picture noise will appear. 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 intend-ed for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COM-PATIBILITY WITH THIS MODEL 525p DVD+VCR, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

Front Panel
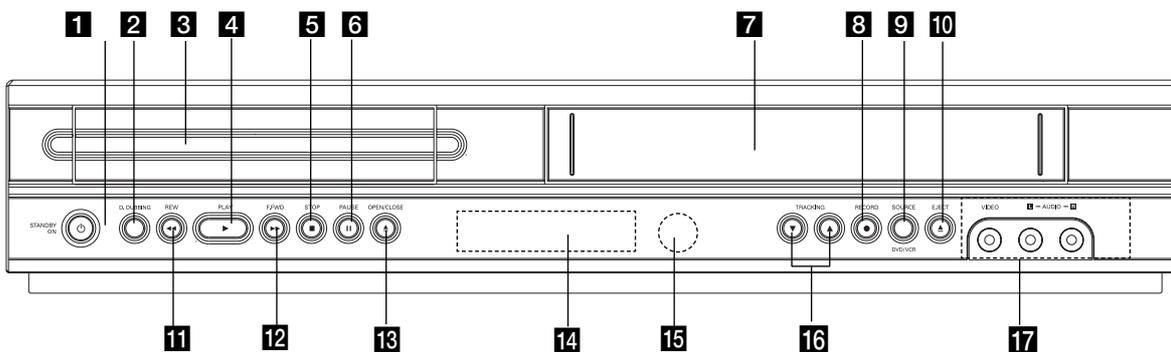
a ⏻ **(STANDBY ON)**
Switches the unit ON and OFF.

b **D.DUBBING**
Copies a DVD in the DVD deck to a VHS tape in the VCR deck.

c **Disc Tray (DVD deck)**
Insert a disc here.

d ▶ **(PLAY)**
Starts playback of a disc or tape.

e ■ **(STOP)**
Stops playback of the disc or tape.

f ❚❚ **(PAUSE)**
Pause playback of a disc in the DVD deck temporarily.
Press repeatedly for frame-by-frame playback.

g **Cassette Compartment (VCR deck)**
Insert a video cassette here.

h ● **(RECORD)**
Starts recording.
Press repeatedly to set the recording time.

i **SOURCE, DVD/VCR (output select)**
Select one of your output sources to view on the TV screen between DVD and VCR.

j ▲ **(EJECT)**
Ejects the tape in the VCR deck.

k ◀◀ **(REW)**
DVD: Go to beginning of current chapter/track. Press and hold for fast forward search.
VCR: Rewinds the tape from STOP mode or for fast forward picture search.

l ▶▶ **(F.FWD)**
DVD: Go to NEXT chapter/track. Press and hold for fast reverse search.
VCR: Advances the tape from STOP mode or for fast reverse picture search.

m ▲ **OPEN/CLOSE**
Opens or closes the disc tray.

n **Display Windows**

DVD: The DVD deck is selected.

⊚ **:** A disc is in the DVD deck.
(Lights when a disc is in the DVD deck and Flashes when no disc.)

⟲ **:** Indicates repeat mode.

🔒 **:** Indicates when the DVD & VCR is locked.

[P]: Indicates when the Progressive scan is active.

🕐 **:** Unit is in timer recording or a timer recording is programmed (VCR part only)

◯▭ **:** A cassette is in the VCR deck.

VCR: The VCR deck is selected.

REC: Unit is Recording.(VCR part only)

PM: Indicates PM time. (AM is not displayed.)

⌐8:8888 **:** Indicates total playing time, elapsed time, remaining time or current deck status (Playback, Pause, etc).

o **Remote Sensor**
Point the unit Remote Control here.

p **TRACKING (▼/▲)**
Para cambiar la fuente (L1 y L2) en modo VCR.

q **VIDEO IN/AUDIO IN (Left/Right)**
Connect to the audio/video output of an external source (Audio system, TV/Monitor, Another VCR).

Child Lock Feature Notice
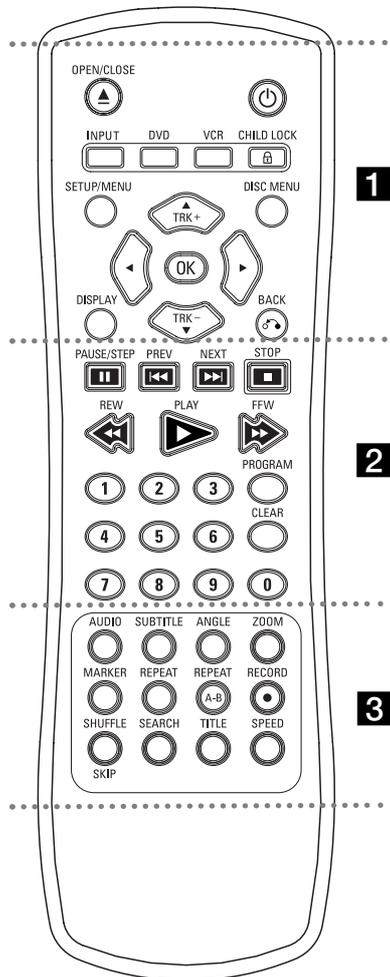
The control buttons on the front panel of the unit can be switched off so that your unit can only be operated using the remote control.

Press CHILD LOCK on the remote control to turn on the LOCK function, SAFE 🔒 appears in the display window.

To cancel the LOCK function, press CHILD LOCK on the remote control until OFF 🔒 drops from the display window.
This function must be set in VCR mode.

Remote Control

DISPLAY : Switches between the clock, tape counter and tape remaining modes on the display.

◄ / ► / ▲ / ▼ : Selects menu options.

▲/▼ (TRK +/-) : Adjusts manually the tape's picture onscreen.

OK : Confirms menu selections. Displays functions on the TV screen.

⌐♪ (BACK) : Displays the menu of a video CD with PBC.

● ● ● ● ● **2** ● ● ● ● ●

❚❚ (PAUSE/STEP) :
Pause playback or recording temporarily.
Press repeatedly for frame-by-frame playback.

❙◄◄/►►❙ (PREV/NEXT) :
Go to next the chapter or track.
Returns to beginning of current chapter or track or go to previous chapter or track.

■ (STOP) : Stops playback or recording.

◄◄/►► (REW/FFW) :
- DVD: Search backward or forward.
- VCR: Rewinds/Advances the tape during the STOP mode, for fast backward/forward picture search.

► (PLAY) : Starts playback.

0-9 Selects numbered options in a menu.

PROGRAM : Shows Program menu.

CLEAR : Removes a mark on the Marker Search menu.

● ● ● ● ● **3** ● ● ● ● ●

AUDIO : Selects an audio language (DVD).

SUBTITLE : Selects a subtitle language.

ANGLE : Selects a DVD camera angle, if available.

ZOOM : Enlarges DVD/VCD video image.

MARKER : Marks any point during playback.

REPEAT : Repeat chapter, track, title or all.

A-B (REPEAT) : Repeats sequence between two points (A and B).

● (RECORD) : Starts recording.

SHUFFLE : Plays tracks in random order.

SEARCH : Displays Marker Search menu.

TITLE : Displays the disc's Title menu, if available.

SPEED : Selects recording speed.

SKIP : Fast forwards picture search through 30 seconds of recording.

● ● ● ● ● **1** ● ● ● ● ●

⏻ (POWER) : Switches unit ON and OFF.

▲ (OPEN/CLOSE) : Opens and closes the disc tray.

INPUT : Selects the VCR deck's source (LINE 1 or LINE 2).

DVD : Select the unit function mode to DVD.

VCR : Select the unit function mode to VCR.

CHILD LOCK : Disables front panel buttons

SETUP/MENU: Accesses or removes DVD Setup menu and VCR menu.

About the Remote Control

Operation Range

Point the Remote Control at the remote sensor and press the buttons.

Distance: About 23 ft (7 m) from the front of the remote sensor.

Angle: About 30° in each direction of the front of the remote sensor.

Battery installation
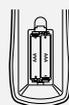
Detach the battery cover on the rear of the Remote Control, and insert two (R03/AAA) size batteries with ⊕ and ⊖ aligned correctly.

⚠ Do not mix old and new batteries and never mix different types of batteries such as standard, alkaline, etc.

Rear Panel

⚠️ **Caution**

**Do not touch the inner pins of the jacks on the rear panel.
Electrostatic discharge may cause permanent damage to the unit.**

a **VCR IN LINE 1 (VIDEO/AUDIO (Left/Right))**
Connect the audio/video output of an external source
(Audio system, TV/Monitor, VCR, Camcorder).

b **DVD/VCR OUT (VIDEO/AUDIO (Left/Right))**
Connect to a TV with video and audio inputs.

c **COMPONENT/PROGRESSIVE SCAN VIDEO
OUT (Y Pb Pr) (DVD EXCLUSIVE OUT)**
Connect to a TV with Y Pb Pr inputs.

d **AUDIO OUT (Left/Right)
(DVD EXCLUSIVE OUT)**
Connect to a TV or other equipment with audio inputs.

e **AC Power Cord**
Plug into the power source.

f **COAXIAL (DIGITAL AUDIO OUT jack)
(DVD EXCLUSIVE OUT)**
Connect to digital (coaxial) audio equipment.

g **S-VIDEO OUT (DVD EXCLUSIVE OUT)**
Connect to a S-Video Input on TV.

Preparation

Depending on your TV and other equipment there are various ways you can connect the player. Please refer to the manuals of your TV, VCR, stereo system or other devices as necessary for additional connection information.

Notes:

- The picture and sound of a nearby TV, VCR, or radio may be distorted during playback. Position the units away from each other or turn off the unit after removing the disc.
- Do not connect the unit's AUDIO OUT jack to the phono in jack (record deck) of your audio system. Do not connect the unit via another VCR. The DVD image could be distorted by the copy protection system.
- Please ensure that an external cable/satellite box is connected to the DVP3340V.

Basic TV Connections

Make one of the following connections, depending on the capabilities of your TV.

Rear of DVD+VCR
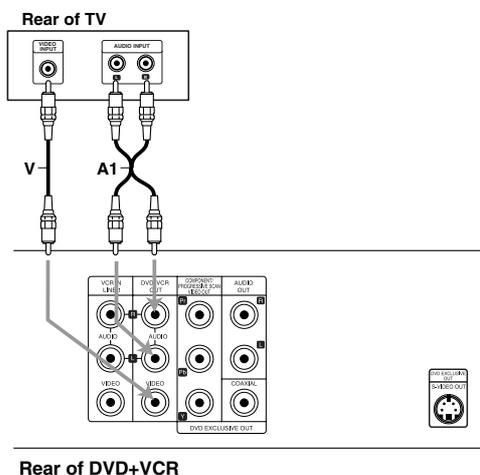
Audio/Video connection

1. Connect the DVD/VCR VIDEO OUT jack on the unit to the video in jack on the TV using the video cable supplied **(V)**.
2. Connect the Left and Right DVD/VCR AUDIO OUT jacks on the unit to the audio left/right in jacks on the TV using the supplied audio cables **(A2)**.

Note:

If you use this connection, set the TV's source selector to VIDEO.

Optional TV Connections

These connections support only DVD playback. The tuner and VCR still output through the DVD/VCR OUT **(A1, V)** jacks.

Note:

The video may be displayed unstable.

Rear of DVD+VCR

Rear of TV
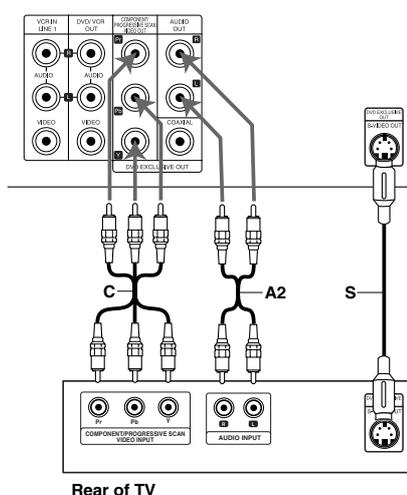
S-Video connection

Connect the S-VIDEO OUT jack on the unit to the S-Video jack on the TV using the optional S-Video cable **(S)**.

Component Video / Progressive Scan connection

If your television is a high-definition or "digital ready" television, you may take advantage of the unit's progressive scan output for the highest possible video resolution.

Connect the COMPONENT/PROGRESSIVE SCAN VIDEO OUT jacks on the unit to the corresponding jacks on the TV using an optional Y Pb Pr cable **(C)**.

Audio connection

Connect the Left and Right AUDIO OUT jacks of the unit to the audio left/right in jacks on the TV using the supplied audio cables **(A2)**.

Note:

If you connect both S-Video and component jack to your TV, video displayed might be unstably on your TV. You should disconnect one of both connections to solve the problem.

Connection to an Amplifier

You can only listen to DVD playback using COAXIAL **(X)** and AUDIO OUT **(A2)** connections. The VCR will still be heard through the DVD/VCR AUDIO OUT **(A1)** jack.

Connecting to an amplifier equipped with two channel analog stereo or Dolby Pro Logic II/Pro Logic

Connect the Left and Right AUDIO OUT (or DVD/VCR AUDIO OUT) jacks on the unit to the audio left and right in jacks on your amplifier, receiver, or stereo system using the audio cables **(A1, A2)** supplied.

Connecting to an amplifier equipped with two channel digital stereo (PCM) or to an Audio/Video receiver equipped with a multi-channel decoder (Dolby Digital™, MPEG 2)

1. Connect one of the unit's DIGITAL AUDIO OUT jacks (COAXIAL **X**) to the corresponding jack on your amplifier. Use an optional digital (COAXIAL **X**) audio cable.

2. You will need to activate the unit's digital output. (See "AUDIO" on page 17).

Digital Multi-channel sound

A digital multi-channel connection provides the best sound quality. For this you need a multi-channel Audio/Video receiver that supports one or more of the audio formats supported by your unit (MPEG 2, Dolby Digital). Check the receiver manual and the logos on the front of the 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.

- Six Channel Digital Surround Sound via digital connection can only be obtained if your receiver is equipped with a Digital Multi-channel decoder.

- To see the audio format of the current DVD in the on-screen display, press AUDIO.

Rear of DVD+VCR

Amplifier (Receiver)
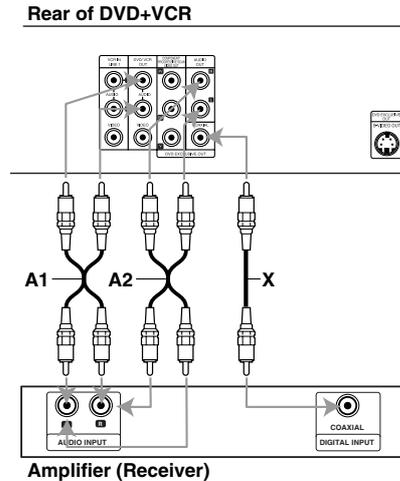
Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.

Accessory Audio/Video (A/V) Connections to unit

Connect the VCR IN LINE 1 or LINE 2 jacks on the unit to the audio/video out jacks on your accessory component, using the optional audio/video cables. (Refer to page 22 for "Recording from External Components".)

Rear of DVD+VCR   **Front of DVD+VCR**
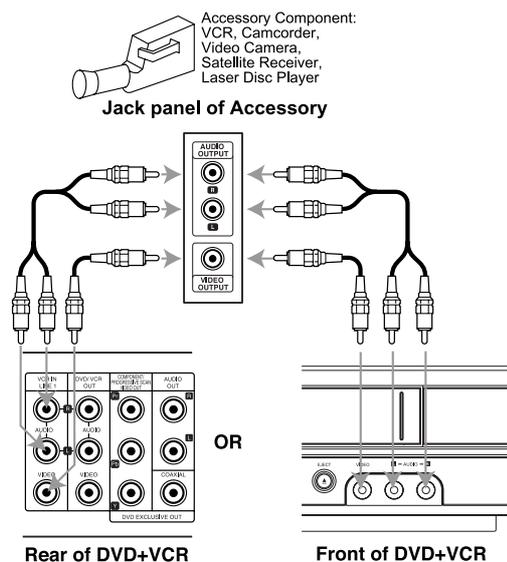
Initial Settings - VCR

By using the VCR Setup menu, you can make various adjustments to items such as clock setting, and timer recordings.

Your unit allows remote control adjustment of several features.

General Operation

1. Press VCR on the Remote Control.
2. Press SETUP/MENU and the MAIN menu will appear.

```
[clock icon]   CLOCK

[REC icon]     PROGRAM

[timer icon]   SETUP


▲▼ SELECT  ENTER  ENTER
TO EXIT PRESS MENU
```

3. Use ▲/▼ to select the desired menu, then press OK.
4. Use ▲/▼ to choose a desired option on the selected Menu. Then use ◄/► to choose a desired setting.
5. Press SETUP/MENU to exit menu.

Note:
Menus remain on-screen for 3 minutes.

CLOCK

```
[clock icon]

MONTH : JANUARY
DAY   : 1 MON
YEAR  : 2007
TIME  : 12:00 AM

▲▼ SELECT  ◄► ADJUST
TO EXIT PRESS MENU
```

Use ▲/▼/◄/► to enter the necessary information.
• MONTH : Choose the month.
• DAY : Choose the date.
  The day of the week will display automatically.
• YEAR : Choose the year.
• TIME : Choose the time.
  Press and hold ◄/► to advance clock continuously.
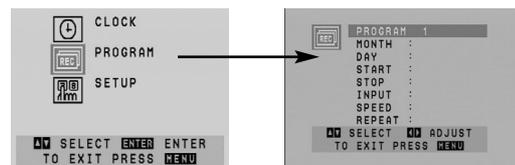
Note:
The clock uses the 12-hour system. Be sure to set AM and PM correctly.

PROGRAM

1. Press SETUP/MENU and the main menu appears.
2. Use ▲ / ▼ to choose the PROGRAM option and press OK.

```
[clock icon]  CLOCK

[REC icon]    PROGRAM    →    [REC icon] PROGRAM 1
                                         MONTH :
[timer icon]  SETUP                      DAY   :
                                         START :
                                         STOP  :
▲▼ SELECT ENTER ENTER                    INPUT :
TO EXIT PRESS MENU                       SPEED :
                                         REPEAT :
                                         ▲▼ SELECT  ◄► ADJUST
                                         TO EXIT PRESS MENU
```

If eight programs are already entered, the FULLY PROGRAMMED message appears for a moment and then PROGRAM 1 appears on the TV screen.

3. Use the ▲ / ▼ buttons to switch between the program options, and the ◄ / ► buttons to input the program information:

   Input the MONTH, DAY, START and STOP times of the program you want to record.

   INPUT: Select a LINE1 or LINE2.

   SPEED: AUTO mode determines how much tape is left and switches the speed from SP to SLP, and vice versa. If it is necessary to complete recording the program.
   If this occurs there could be some picture and sound distortion at the point where the speed changes.

   REPEAT: To record up to 8 programs on a certain day of every week select WEEKLY. To record up to 8 programs at the same time Monday through Friday select DAILY. Otherwise select ONCE.

4. Press SETUP/MENU and the program is memorized by the unit.
5. Additional programs may be entered by repeating steps 1-4.

Notes:
• Ensure you insert a tape with the record safety tab intact before the first programmed time.
• Press ■ (STOP) to end timer recording.

Preparation

⑬

Notes:

- If you make a mistake or want to change a set-ting, use ▲ to select the option and correct it using ◄ / ►.

- If the program preset time is past, the "PAST TIME PROGRAMMED" message appears on the TV screen. Return to the incorrect program and program it with the correct time.

- If you enter a past date, the timer recording will be performed on that date of the next year.

- If the power fails or the unit is unplugged the clock and timer settings are kept in memory for only 3 seconds. Otherwise you must reset the clock and timer.

- If the tape indicator is blinking, no tape is loaded.

- When you are playing DVD at programmed Recording time, the unit automatically change to VCR mode and start recording.

- The unit will automatically power off when Timer Recording ends.

Checking or Erasing the Timer Program

Programming can be checked whenever the unit is turned on.

1. Press SETUP/MENU and the main menu appears.

2. Use ▲ / ▼ to choose the PROGRAM menu and press OK.
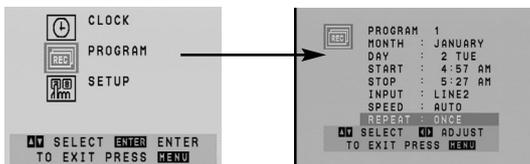
3. Use ◄ / ► to select a program you want to check or erase. To erase the program, press CLEAR.

4. Press SETUP/MENU to return to the TV screen.

Program Priority

If the recording start and end times of preset programs overlap on the same day (see the example), the second program is not recorded until the first is finished.
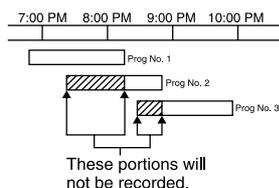
In this example, the first part of program numbers 2 and 3 are not recorded.

SETUP

FUNCTION OSD

The on-screen display can be turned on or off.

AUDIO MODE

The unit has two separate audio playback systems, the high quality VHS Hi-Fi system and standard NORMAL mono system. The same audio is generally recorded on both systems. The VHS Hi-Fi system plays on separate (left and right) channels, and the NORMAL system plays monaural sound. The normal track is always played so the cassette can be played on a unit that does not have VHS Hi-Fi.

AUDIO OUTPUT (STEREO/LEFT/RIGHT)

Used during playback [when AUDIO MODE (HI-FI/NORMAL) is in HI-FI position] for selecting the audio output signals from the AUDIO OUT terminals (L ch and R ch). This display setting should normally be left in the stereo position, so that when a stereo tape is played, the stereo sound will be heard through the left and right channels. If a mono tape is played and the audio output is set to stereo, the same mono sound will be heard from both left and right channels.

Displaying Disc Information on-screen

You can display various information about the disc loaded on-screen.

1. Press DISPLAY to show various playback information.
   The displayed items differ depending on the disc type or playing status.

```
🌐  ◄   1/7   ►
🎬      1/17
🕐     0:00:56
        1  ENG
🎧         D
        3/2.1CH
📺        Off
🎦        1/1
```

2. You can select an item by pressing ▲ / ▼ and change or select the setting by pressing ◄ / ►.
   - Title (Track) – Current title (or track). number/total number of titles (or tracks).
   - Chapter – Current chapter number/total number of chapters.
   - Time – Elapsed playing time.
   - Audio – Selected audio language or channel.
   - Subtitle – Selected subtitle.
   - Angle – Selected angle/total number of angles.

Note:

If no button is pressed for a few seconds, the on-screen display disappears.

Initial Settings - DVD

By using the Setup menu, you can make various adjustments to items such as picture and sound. You can also set a language for the subtitles and the Setup menu, among other things. For details on each Setup menu item, see pages 15 to 18.

To display and exit the Menu:
Press SETUP/MENU to display the menu. A second press of SETUP/MENU will take you back to initial screen.

To go to the next level:
Press ► on the Remote Control.

To go back to the previous level:
Press ◄ on the Remote Control.

General Operation

1. Press SETUP/MENU. The Setup menu appears.

```
                    LANGUAGE
A  ►      Menu Language    ▷  English
📺        Disc Audio       ▷  Original
🔊        Disc Subtitle    ▷  Original
🔒        Disc Menu        ▷  Original
📦

                              ↕ Move   ► Select
```
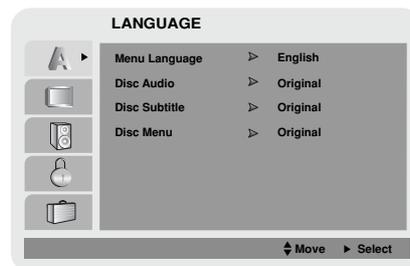
2. Use ▲ / ▼ to select the desired option then press ► to move to the second level. The screen shows the current setting for the selected item, as well as alternate setting(s).

3. Use ▲ / ▼ to select the second desired option then press ► to move to the third level.

4. Use ▲ / ▼ to select the desired setting then press OK to confirm your selection. Some items require additional steps.

5. Press SETUP/MENU or ► (PLAY) to exit the Setup menu.

LANGUAGE

```
                LANGUAGE
   A ▶  Menu Language      ▷  English
        Disc Audio         ▷  Original
   □    Disc Subtitle      ▷  Original
   📷   Disc Menu          ▷  Original
   🔒
   🗔
                        ⬍ Move   ▶ Select
```

Menu Language

Select a language for the VCR and DVD's Setup menu and on-screen display.

Disc Audio / Subtitle / Menu

Select the language you prefer for the audio track (disc audio), subtitles, and the disc menu.

Original – Refers to the original language in which the disc was recorded.

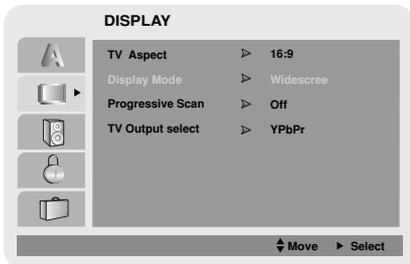**Other** – To select another language, press number buttons then OK to enter the corresponding 4-digit number according to the language code list on page 30. If you enter the wrong language code, press CLEAR.

DISPLAY

```
                DISPLAY
   A    TV  Aspect         ▷  16:9
        Display Mode       ▷  Widescree
   □ ▶  Progressive Scan   ▷  Off
   📷   TV Output select   ▷  YPbPr
   🔒
   🗔
                        ⬍ Move   ▶ Select
```

TV Aspect

4:3 – Select when a standard 4:3 TV is connected.

16:9 – Select when a 16:9 wide TV is connected.

Display Mode

The display Mode setting works only when the TV Aspect mode is set to "4:3".

Letterbox – Displays a wide picture with bands on the upper and lower portions of the screen.

Panscan – Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.

Progressive Scan

Progressive Scan Video provides the highest quality pictures with less flickering.
If you are using the Component Video jacks for connection to a TV or a monitor that is compatible with a progressive scan signal, set Progressive Scan to On.

To Turn ON progressive scan:

Connect component video out of the this unit to the input of your monitor/television, set your television or monitor to Component Input.

1. Select "Progressive Scan" on the DISPLAY menu then press ▶.

2. Select "On" using the ▲ / ▼ buttons.

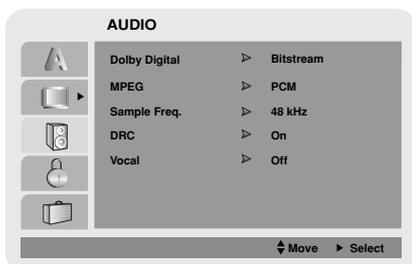3. Pressing OK will set the player to Progressive scan mode.

TV Output Select

Set the player's TV Output Select options according to the TV connection type.

YPbPr – When your TV is connected with the COMPONENT VIDEO OUT/PROGRESSIVE SCAN jacks on the DVD player.

S-VIDEO – When your TV is connected with the S-VIDEO jack.

AUDIO

Each DVD disc has a variety of audio output options. Set the player's AUDIO options according to the type of audio system you use.

```
                    AUDIO

    A     Dolby Digital    ▷   Bitstream
    ▭  ▸  MPEG             ▷   PCM
    ▯     Sample Freq.     ▷   48 kHz
    ♪     DRC              ▷   On
    🔒     Vocal            ▷   Off
    ▱

                          ⬍ Move   ▶ Select
```

Dolby Digital / MPEG

Bitstream – Select "Bitstream" if you connect this DVD player's DIGITAL OUT jack to an amplifier or other equipment with a Dolby Digital or MPEG decoder.

PCM (for Dolby Digital / MPEG) – Select when connected to a two-channel digital stereo amplifier. DVDs encoded in Dolby Digital or MPEG will be automatically downmixed to two-channel PCM audio.

Sample Freq. (Frequency)

If your receiver or amplifier is NOT capable of handling 96 kHz signals, select 48 kHz. When this choice is made, this unit automatically converts any 96 kHz signals to 48 kHz so your system can decode them.

If your receiver or amplifier is capable of handling 96 kHz signals, select 96 kHz.

Check the documentation for your amplifier to verify its capabilities.
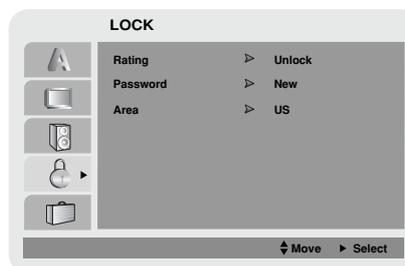
Dynamic Range Control (DRC)

With the DVD format, you can hear a program's soundtrack in the most accurate and realistic presentation. However, you may wish to compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones). This allows you to listen to a movie at a lower volume without losing clarity of sound. Set DRC to On for this effect.

Vocal

Set to On only when a multi-channel karaoke DVD is playing. The karaoke channels on the disc mix into normal stereo sound.

LOCK (Parental Control)

```
                LOCK

    A     Rating       ▷   Unlock
    ▭     Password     ▷   New
    ▯     Area         ▷   US
    🔒 ▸
    ▱

                          ⬍ Move   ▶ Select
```

Rating

Blocks playback of rated DVDs based on their content. Not all discs are rated.

1. Select "Rating" on the LOCK menu then press ▶.

2. To access the LOCK options, you must input the password you have created. If you have not yet entered password, you are prompted to do so.

   Input a password and press OK. Enter it again and press OK to verify. If you make a mistake before pressing OK, press CLEAR.

3. Select a rating from 1 to 8 using the ▲ / ▼ buttons.

   Rating 1-8: Rating one (1) has the most restrictions and rating eight (8) is the least restrictive.

   Unlock: If you select unlock, parental control is not active and the disc plays in full.

4. Press OK to confirm your rating selection, then press SETUP/MENU to exit the menu.

Password

You can enter or change password.

1. Select Password on the LOCK menu then press ▶.

2. Follow step 2 as shown above (Rating).

   To change the password, press OK when the "Change" option is highlighted. Input a password and press OK. Enter it again and press OK to verify.

3. Press SETUP/MENU to exit the menu.

If you forget your password

If you forget your password, you can clear it using the following steps:

1. Press SETUP/MENU to display the Setup menu.

2. Input the 6-digit number "210499". The password is cleared.

English

Area Code

Enter the code of the area whose standards were used to rate the DVD video disc, based on the list on page 30.

1. Select "Area Code" on the LOCK menu then press ►.

2. Follow step 2 as shown previous page (Rating).

3. Select the first character using ▲ / ▼ buttons.

4. Press ► and select the second character using ▲ / ▼ buttons.

5. Press OK to confirm your Area code selection.

OTHERS

```
OTHERS

Ⓐ    PBC        ▷   On
Ⓣ    B.L.E.     ▷   Off
Ⓢ
Ⓛ
Ⓞ ▸
                        ⬍ Move   ▸ Select
```
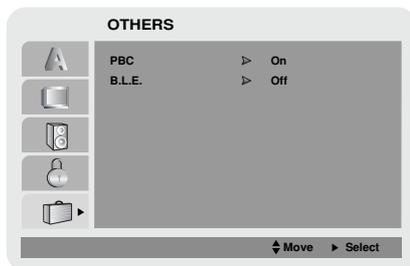
PBC VCD

Set Playback Control (PBC) to On or Off.

On: Video CDs with PBC are played according to the PBC.

Off: Video CDs with PBC are played the same way as Audio CDs.

B.L.E. (Black Level Expansion)

To select the black level of playback pictures. Set your preference and monitor's ability.

On: Expanded grey scale. (0 IRE cut off)

Off: Standard grey scale. (7.5 IRE cut off)

Operation

This chapter describes how to operate the VCR and DVD.

VCR Tape Playback

Press the **VCR** button to select the device to be operated.

Basic Instructions

1. Turn on the TV.

2. Direct VIDEO/AUDIO connection is made between the unit and the TV, set the TV's source selector to VIDEO.

3. Insert a pre-recorded video cassette.
   The ⊙—⊙ indicator lights and the unit powers on automatically.

4. If a tape without a safety tab is inserted the unit starts playback automatically.
   If not, press ► (PLAY).

5. Press ■ (STOP) to stop playback. If the tape reaches the end before you press ■ (STOP) the unit automatically stops, rewinds and ejects the tape.

Note:
It is not necessary to select the tape speed for playback because it is automatically selected by the unit.

Auto Tracking

Automatic tracking adjusts the picture to remove snow or streaks and beings when:

- A tape is played for the first time.
- The tape speed (SP & SLP) changes.
- Streaks or snow appear due to scratches on the tape.

Manual Tracking

To manually adjust the tracking use the ▲/▼ (TRK +/-) buttons on the Remote Control during playback.

Notes:
- Vertical jitter requires a very fine adjustment.

- Tracking is automatically reset to normal when the tape is ejected or the power cord is unplugged for more than 3 seconds.

Search

This function lets you visually search for a tape section in either direction: forward and backward. During the high-speed picture search modes, the audio is muted and horizontal lines (noise bars) appear. Also, a short time is needed to stabilize the tape speed when re-entering the PLAY mode so slight interference may be observed during this time.
To search:

1. Press ◄◄ (REW) or ►► (FFW) during playback.

2. To return to playback, press ► (PLAY).

Logic search:

During fast forwarding or rewinding press and hold ◄◄ (REW) or ►► (FFW) the picture will be played back at 7 times normal playback speed.

Note:
After 3 minutes in SEARCH mode the unit returns to PLAY mode to protect the tape and video heads.

Still Picture and Frame-by-Frame Playback

1. Press ❚❚ (PAUSE/STEP) during playback.
   A still picture appears on the TV screen and the audio is muted.

2 If the still picture vibrates vertically, stabilize it by using ▲/▼ (TRK +/-) on the Remote Control.

3. Press ❚❚ (PAUSE/STEP) repeatedly to advance the video picture one frame at a time.

4. To return to playback, press ► (PLAY).

Note:
After 5 minutes in STILL mode the unit stops to protect the tape and video heads.

Slow Motion

1. While in still mode, press ►► (FFW).
The tape is played at a speed 1/19 times slower than the normal speed.

2. Use ▲/▼ (TRK +/-) on the Remote Control if necessary to adjust the tracking.

3. To return to the normal speed, press ► (PLAY).

Notes:

• During slow motion, audio is muted and horizontal lines (noise bars) may appear on the TV screen. This is normal.

• After 3 minutes in SLOW MOTION mode the unit goes back to PLAY mode to protect the tape and video heads.

SKIP

This feature is useful for skipping commercials or short program segments.

1. Press SKIP in playback mode.
The unit performs a fast forward picture search through 30 seconds of recording.

2. Press SKIP again to extend the search time by an addition 30 seconds. The maximum search time is 3 minutes.

3. When the search is complete, the unit goes into playback mode automatically.

VCR Tape Recording

Basic Instructions

To pause the recording

1. Press ❚❚ (PAUSE/STEP) to pause the tape during recording. The REC indicator flashes in the display window.

2. When you want to continue recording, press ❚❚ (PAUSE/STEP) or press ● (RECORD).
After 5 minutes in PAUSE mode, the unit stops automatically to protect the tape and the video heads.

External Timer Recording

If the external device that is connected to this unit has the timer reservation function, this unit can record the input signal the external device via the timer LINE1 jack.
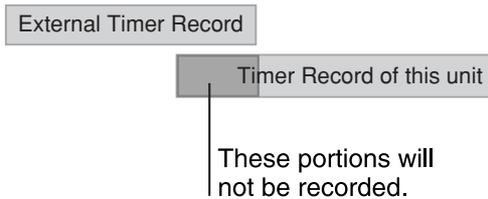
1. Connect the LINE1 input jacks on this unit to the AUDIO/VIDEO OUTPUT jack on the external device using the audio/video cables.

2. Set the timer reservation setting of the external device.

3. Turn off the external device.

4. Insert a video cassette with the safety tab intact to this unit.

5. Press ● (RECORD) for more than 3 seconds on the front panel when the unit power is off.
The " ⊘ " mark will flashes on the display window. This unit is set to standby mode for the external timer recording.

Notes:

• If the power of the external device is on by the timer reservation setting, this unit detects the signals of external device and start the recording.

• If the power of the external device is off while external timer recording, this unit will be stop the external timer recording and turns off the power.

• If the power of the external device is on again, this unit will be start the external timer recording again.

• Press ■ (STOP) to stop recording while external timer recording is in progress.

• The external timer record is available only for the device that is connected with LINE1 jack on this unit.

• The external timer record will be set to off automatically when:
- There is no recordable tape.
- STOP or PAUSE button is pressed while external timer recording.
- The power of this unit is ON in the external timer record standby mode.
- When you press the ● (RECORD) for more than 3 seconds again in the external timer record standby mode.

Program Priority

If the recording time of this unit and the external device are overlap:
The earlier program takes priority.
When the earlier program finishes, the later program starts.

| External Timer Record |
| Timer Record of this unit |

These portions will not be recorded.

Note:
Instant Timer recording is not available when the external timer record is in progress.

Instant Timer Recording

With this feature you can record for a preset length without using the program timer.

1. Turn on unit and the TV.

2. Insert a video cassette with the safety tab intact.

3. If you are recording from another source via audio/video input jacks (at the rear or front panel).

4. Connect the LINE1 or LINE2 input jacks on this unit to the AUDIO/VIDEO OUTPUT jack on the external device using the audio/video cables.

5. Select LINE1 (rear jacks) or LINE2 (front jacks) by using INPUT.

6. Set the desired recording speed (SP or SLP) using SPEED. The tape speed appears on the TV screen.

7. Press ● (RECORD) twice. The menu appears on the TV screen, recording starts, and the ⊘ (TIMER) indicator lights.

```
  INSTANT TIMER RECORD

INPUT          LINE1
SPEED          SP

START          NOW
 LENGTH        0H30M
```

8. Press ● (RECORD) repeatedly to select the recording time length. Each time you press this button the recording time increases 30 minutes (up to 9 hours).
At the end of the recording, the unit will stop recording and shut off.

If you set the time to 0H00M, the unit goes into the normal recording mode.

9. Press ■ (STOP) to stop the recording.

Checking the Recording Time

Press ● (RECORD) once to check the recording time. The recalled setting automatically returns to the TV screen after 6 seconds.

Extending the Recording Time

The recording time can be extended anytime by pressing ● (RECORD). Subsequent presses result in advancing the recording time by 30-minute increments.

Note:
If you press ❚❚ (PAUSE/STEP) during instant timer recording, the instant timer recording is cancelled. It goes to normal recording PAUSE mode.

Operation

Recording from External Components

You can record from an external component, such as a camcorder or VCR, connected to any of the unit's external inputs.

1. Make sure that the component you want to record from is connected properly to the unit. See page 12.

2. Press INPUT repeatedly to select the external input to record from.
   - LINE1 (L1): Audio/Video Input mounted on back panel.
   - LINE2 (L2): Audio/Video Input mounted on front panel.

3. Load a recordable tape.

4. Set a recording mode (SP or SLP) as necessary by pressing SPEED repeatedly.

5. Play the tape or disc in the external component. If you have a TV attached to your unit, you can see the video playing.

6. Press ● (RECORD) once to start recording. The REC indicator lights in the display window.

7. Press ■ (STOP) to stop recording.

Notes:
- Before recording, confirm the recording start position.
- If your source is copy-protected using CopyGuard, the recorded contents may not be played properly. See Copyright on page 7 for more details.
- To record for a fixed length of time, see Instant Timer Recording.

Copying from DVD to VCR

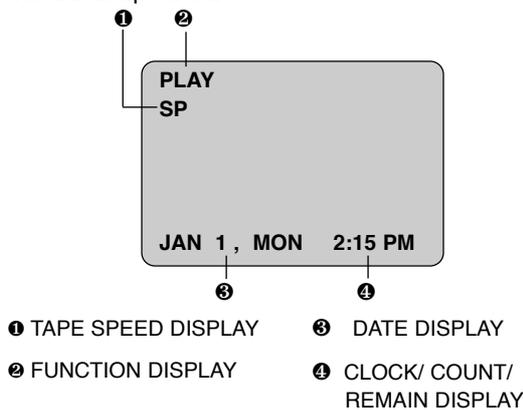You can copy the contents of a DVD to a VHS tape.

1. Insert the disc you wish to copy into the DVD deck and close the disc tray.

2. Insert a blank VHS video tape into the VCR deck.

3. Find the place on the DVD from which you want to start dubbing using the PLAY, FF, REW and PAUSE functions.
   For best results, pause playback at the point from which you want to record.

4. Press the ● (RECORD). The DVD goes into PLAY mode and the VCR goes into RECORD mode. If the DVD disc menu appears, you may need to press ▶ (PLAY) manually to begin copying.

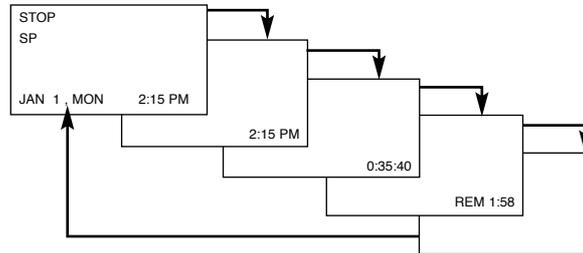5. When the DVD is finished playing, press ■ (STOP) to end copying.

Notes:

• You must stop the copy process manually when the DVD movie ends, or the unit may replay and record over and over again.

• When you stop the DVD playback during copying, the recording on VCR is stopped automatically.

On-Screen Display - VCR

Some of these functions will be displayed every time the unit is operated.

❶   ❷

```
PLAY
SP




JAN 1 , MON    2:15 PM
```

        ❸   ❹

❶ TAPE SPEED DISPLAY   ❸ DATE DISPLAY

❷ FUNCTION DISPLAY   ❹ CLOCK/ COUNT/
                         REMAIN DISPLAY

Each press of the OK changes the TV screen in the following sequence.

Real-Time Counter
If a tape with contents recorded on it is inserted into the VCR, the real-time counter shows length of the tape running in hours, minutes, and seconds. Press DISPLAY to select the real-time counter display.
Every press of DISPLAY changes the TV screen as illustrated below.

2:15 AM	0:05:25	REM 1:07
CLOCK	**COUNTER**	**REMAINING TIME**

Counter Memory
This feature is useful if there is a section of tape you want to view immediately after recording or if you want to return to the same point several times.

1. Begin recording or playing a tape.

2. Press DISPLAY until the real-time counter is displayed on the TV screen.

3. At the point that you want to locate later, reset the real-time counter to "0:00:00" by pressing CLEAR.

4. Continue to play or record.

5. Press ■ (STOP) when recording or playback finishes.

6. Press ▶▶ (FFW). The tape automatically stops when the tape counter returns to about "0:00:00".

Tape Remaining
This function displays the amount of time remaining on the tape during recording or playback.
Press DISPLAY repeatedly until the REM indicator displays on the TV screen during recording or playback.
The remaining tape length may not be displayed correctly depending on the condition of the tape and the kind of the tape (T-140, T-160, or T-210 etc.).

Notes:

• The function displays can be seen displayed on the TV screen for 5 seconds.

• The clock (or tape counter, tape remaining) mode will be displayed until you press OK.

• The tape counter and the remaining tape length indicator appear only when a cassette is inserted. Also, the remaining tape length indicator appears after any tape operation.

Additional VCR Information

- During manual recording playback, or fast forward modes, the unit automatically starts rewinding the tape at the end of the tape. The cassette stops at the beginning of the tape and is ejected.

- After you have finished using the unit, rewind, eject, and remove the cassette. Place the cassette in its protective sleeve to protect it from dust. It is not necessary to rewind the cassette before removing it, but if you do, it is ready to play or record the next time you use it.

- Do not attempt to hook up more than one television set to the unit for either recording or playback.

VCR Auto Play System

This unit features automatic playback.

When you load a tape with the safety tab removed the following occurs:

- The Output Source is changed to VCR mode automatically.

- The power turns on automatically and playback begins.

- At the end of the tape, the unit stops, then rewinds.

- The tape is ejected after rewinding and the turns itself off automatically.

LOAD TAPE ▶ AUTO PLAY ▶ AUTO REWIND ▶ AUTO EJECT ▶ AUTO POWER OFF

Note:
Auto power off does not function during regular DVD play mode. (unit power stays on.)

S-VHS Quasi Playback (SQPB)

- This unit can play back S-VHS recorded tapes, however, it cannot make recordings using S-VHS format tapes.

- SQPB is an abbreviation for S-VHS Quasi Playback.

Operations

General features

Buttons	Operations	Discs
⏏ (OPEN / CLOSE)	Opens or closes the disc tray.	**ALL**
⏸ (PAUSE/STEP)	During playback, press ⏸ to pause playback.	**ALL**
	Press ⏸ repeatedly to play Frame-by-Frame.	**DVD** **VCD**
⏮/⏭ (PREV/NEXT)	During playback, press ⏮ or ⏭ to go to the next chapter/track or to return to the beginning of the current chapter/track.	**ALL**
	Press ⏮ twice briefly to step back to the previous chapter/track.	**ACD** **MP3** **WMA**
◀◀/▶▶ (REW/FFW)	During playback, press ◀◀ or ▶▶ repeatedly to select the required scan speed. DVD disc; 4 steps Video CD, MP3, Audio CD ; 3 steps	**DVD** **ACD** **MP3** **VCD**
	While the playback is paused, press ▶▶ repeatedly to play in slow motion (4 steps).	**DVD** **VCD** (FFW Only)
REPEAT	During playback, press REPEAT repeatedly to select a desired repeat mode. DVD discs: Chapter/Title/Off Video CD, Audio CD, MP3/Windows Media™ Audio discs: Track/All/Off	**ALL**
A-B (REPEAT)	Press the A-B (REPEAT) button one at time to select a point A and point B and repeats a sequence from point A (Starting point) to point B (End point).	**DVD** **VCD** **ACD**
ZOOM	During playback or pause mode, press ZOOM to enlarge the video image (3 steps). You can move through the zoomed picture using ◀ ▶ ▲ ▼ buttons. Press CLEAR to exit.	**DVD** **VCD**
SHUFFLE	During playback or in stop mode, press SHUFFLE for random playback.	**ACD** **MP3** **WMA**
TITLE	If the current DVD title has a menu, the title menu appears on the screen. Otherwise, the disc menu may appears.	**DVD**
DISC MENU	The disc menu appears on the screen.	**DVD**
ANGLE	During playback of DVD disc that contains scenes recorded at different camera angles, press ANGLE repeatedly to select a desired angle.	**DVD**
SUBTITLE	During playback, press SUBTITLE repeatedly to select a desired subtitle language.	**DVD**
AUDIO	During playback, press AUDIO repeatedly to hear a different audio language or audio track.	**DVD** **VCD**

Operation

㉕

Notes on general features:

· If you press ▶▶❙ (NEXT) once during Repeat Chapter (Track) playback, the repeat playback cancels.

· Zoom may not work on some DVDs.

· When you are playing a DVD disc that contains scenes recorded different camera angles, the angle indicator will blink on the TV screen during the operations as an indication that angle switching is possible.

· The A-B repeat function is available only in the current track.

Additional features

Time Search `DVD` `VCD`

To start playing at any chosen time on the disc:

1. Press DISPLAY during playback.

2. Press ▲ / ▼ to select the time clock icon and "--:--:--" appears.

3. Input the required start time in hours, minutes, and seconds from left to right. If you enter the wrong numbers, press CLEAR to remove the numbers you entered. Then input the correct numbers.

4. Press OK to confirm. Playback starts from the selected time.

Marker Search `DVD` `VCD`

To enter a Marker

You can start playback from up to nine memorized points. To enter a marker, press MARKER at the desired point on the disc. The Marker icon appears on the TV screen briefly. Repeat to enter up to nine markers.

To Recall or Clear a Marked Scene

1. During disc playback, press SEARCH. The marker search menu appears on the screen.

2. Within 10 seconds, press ◀ / ▶ to select a marker number that you want to recall or clear.

3. Press OK and playback starts from the marked scene. Or, Press CLEAR and the marker number is erased from the list.

4. You can play any marker by inputting its number on the marker search menu.

Last Scene Memory `DVD` `VCD1.1`

This player memorizes last scene from the last disc that is viewed. The last scene remains in memory even if you remove the disc from the player or switch off the player. If you load a disc that has the scene memorized, the scene is automatically recalled.

Note:

This player does not memorize the scene of a disc if you switch off the player before commencing to play the disc.

Screen Saver

The screen saver appears when you leave the DVD player in Stop mode for about five minutes.

Playing an Audio CD or MP3/ Windows Media™ Audio file

This unit can play Audio CDs or MP3/Windows Media™ Audio files.

MP3/Windows Media™Audio/Audio CD
Once you insert an MP3/Windows Media™ Audio files recorded media or Audio CD, a menu appears on the TV screen.
Press ▲ / ▼ to select a track/file then press ► (PLAY) or OK and playback starts. You can use variable playback functions. Refer to page 25-26.

ID3 TAG
• When playing a file containing information such as track titles, you can see the information by pressing DISPLAY.
[Song, Artist, Album, Comment, Genre]

Tips:
• Press DISC MENU to move to the next page.
• On a CD with MP3/Windows Media™ Audio, JPEG and MOVIE file, you can switch MUSIC, PHOTO menu. Press TITLE, and MUSIC and PHOTO word on top of the menu is highlighted.

MP3 / Windows Media™ Audio disc compatibility with this player is limited as follows:
• Sampling frequency: within 8 - 48 kHz (MP3), within 32 - 48kHz (Windows Media™ Audio)
• Bit rate: within 8 - 320kbps (MP3), 64 - 192 kbps (Windows Media™ Audio)
• The player cannot read an MP3/Windows Media™ Audio file that has a file extension as non other than ".mp3" / ".Windows Media™ Audio".
• CD-R physical format should be ISO 9660
• If you record MP3 / Windows Media™ Audio files using software that cannot create a file system (eg. Direct-CD) it is impossible to playback MP3 / Windows Media™ Audio files. We recommend that you use Easy-CD Creator, which creates an ISO 9660 file system.
• File names should have a maximum of 8 letters and must incorporate an .mp3 or .Windows Media™ Audio extension.
• They should not contain special letters such as / ? * : " < > | etc.
• The total number of files in a folder should be less than 1000 files.

Programmed Playback

The program function enables you to store your favorite tracks from any disc in the player memory. A program can contain 30 tracks.

1. Insert an Audio CD or MP3/Windows Media™ Audio files recorded media. AUDIO CD or MUSIC menu appears.

2. Press PROGRAM and the Ⓔ mark will appear.
   Note:
   Press PROGRAM again to exit the program edit mode, then the Ⓔ mark will disappear.

3. Select a track on the "List", then press OK to place the selected track on the "Program" list. Repeat to place additional tracks on the list.

4. Select the track you want to start playing on the "Program" list.

5. Press ► (PLAY) or OK to start. Playback begins in the order in which you programmed the tracks. Playback stops after all of the tracks on the "Program" list have played once.

6. To resume normal playback from programmed playback, select a track on the list and then press ► (PLAY).

Repeat Programmed Tracks
Press REPEAT to select a desired repeat mode.
• Track: repeats the current track
• All: repeats all the tracks on programmed list.
• Off(No display): does not play repeatedly.

Note:
If you press ►►I (NEXT) once during Repeat Track playback, the repeat playback cancels.

Erasing a Track from "Program" List
1. During STOP mode, press PROGRAM and the Ⓔ mark will appear.

2. Use ▲ ▼ ◄ ► to select the track that you wish to erase from the Program list.

3. Press CLEAR. Repeat step 1~3 to erase additional tracks on the list.

Erasing the Complete Program List
1. During STOP mode, press PROGRAM and the Ⓔ mark will appear.

2. Use ▲ ▼ ◄ ► to select "Clear All", then press OK.

Note:
The programs are also cleared when the power is off or the disc is removed.

Operation

Viewing a JPEG file

This unit can play JPEG files.

1. Insert a JPEG files recording media. The PHOTO menu appears on the TV screen.

2. Press ▲ / ▼ to select a folder, and press OK. A list of files in the folder appears.

3. If you want to view a particular file, press ▲ / ▼ to highlight a file and press OK or ► (PLAY).

4. To return to the PHOTO menu while watching pictures, press ■ (STOP).

Note :

Some kind of special JPEG file can be taken more time to play than normal JPEG.
(ex. Progressive JPEG)

Tips:

• If you are in a file list and want to return to the previous Folder list, use ▲ / ▼ buttons to highlight 🖢 and press OK.

• Press DISC MENU to move to the next page.

• There are three Slide Speed options 🔢 : >>> (Fast), >> (Normal) and > (Slow).
Use ▲ ▼ ◄ ► to highlight 🔢 . Then, use ◄ / ► to select the option you want to use then press OK.

• On a CD with MP3/Windows Media™ Audio and JPEG file, you can switch MUSIC and PHOTO menu. Press TITLE, and MUSIC word on top of the menu is highlighted.

• While watching a picture, press ⌕ (BACK) to hide the help menu.

Slide Show

Use ▲ ▼ ◄ ► to highlight the 🔲 (Slide Show) then press OK.

Still Picture

1. Press ❚❚ (PAUSE/STEP) during slide show. The player will now go into PAUSE mode.

2. To return to the slide show, press ► (PLAY) or press ❚❚ (PAUSE/STEP) again.

Moving to another File

Press ◄◄ (PREV) or ►►❙ (NEXT) or cursor (◄ or ►) once while viewing a picture to advance to the next or previous file.

Zoom

During watching pictures, press ZOOM to enlarge the video image (3 steps).
You can move through the zoomed picture using ◄ ► ▲ ▼ buttons.

Rotating the picture

Press ▲ / ▼ during showing a picture to rotate the picture clockwise or counter clockwise.

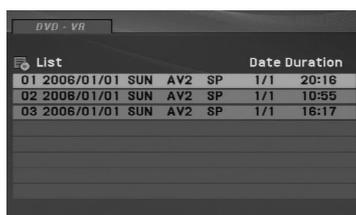**JPEG disc compatibility with this player is limited as follows:**

• Depending upon the size and the number of JPEG files, it could take a long time for the DVD player to read the disc's contents. If you do not see an on-screen display after several minutes, some of the files may be too large — reduce the resolution of the JPEG files to less than 5 million pixels and burn another disc.

• The total number of files in a folder should be less than 1000 files.

• Some discs may be incompatible due to a different recording format or the condition of disc.

• Ensure that all the selected files have the ".jpg" extensions when copying into the CD layout.

• If the files have ".jpe" or ".jpeg" extensions, please rename them as ".jpg" file.

• File names without ".jpg" extension will not be able to be read by this DVD player. Even though the files are shown as JPEG image files in Windows Explorer.

Playing a DVD VR format Disc

This unit will play DVD-R/RW discs that are recorded using the DVD-Video format that have been finalized using a DVD-recorder.

This unit will play DVD-RW discs that are recorded using the Video Recording (VR) format.

1. Insert a disc and close the tray, and playback start automatically.

DVD - VR						
List					Date	Duration
01 2006/01/01	SUN	AV2	SP	1/1	20:16
02 2006/01/01	SUN	AV2	SP	1/1	10:55
03 2006/01/01	SUN	AV2	SP	1/1	16:17

2. Press TITLE to move to the list menu.
3. Press ▲ / ▼ to select a track then press ▶ (PLAY) or OK and playback starts.
4. Press ■ (STOP) to stop the playback.

Notes:
• Unfinalized DVD-R/RW discs cannot be played in this player.
• Some DVD-VR disc are made with CPRM data by DVD RECORDER. Player does not support these kinds of discs and display the "CHECK DISC".

What is 'CPRM'?
CPRM is a copy protection system (with scramble system) only allowing the recording of 'copy once' broadcast programs. CPRM stands for Content Protection for Recordable Media.

Maintenance and Service

Refer to the information in this chapter before contacting a service technician.

Handling the Unit

When shipping the unit

Please save the original shipping carton and packing materials. If you need to ship the unit, for maximum protection, re-pack the unit as it was originally packed at the factory.

Keeping the exterior surfaces clean

• Do not use volatile liquids such as insecticide spray near the unit.
• Do not leave rubber or plastic products in contact with the unit for a long period of time. since they leave marks on the surface.

Cleaning the unit

To clean the player, use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution.

Do not use strong solvents such as alcohol, benzine, or thinner, as these might damage the surface of the unit.

Maintaining the Unit

The unit is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality could be diminished.

Depending on the operating environment, regular inspection and maintenance are recommended after every 1,000 hours of use.

For details, please contact your nearest authorized service center.

Operation

Reference

Language Codes

Use this list to input your desired language for the following initial settings:
Disc Audio, Disc Subtitle, Disc Menu.

Language	Code	Language	Code	Language	Code	Language	Code
Abkhazian	6566	Fiji	7074	Lingala	7678	Singhalese	8373
Afar	6565	Finnish	7073	Lithuanian	7684	Slovak	8375
Afrikaans	6570	French	7082	Macedonian	7775	Slovenian	8376
Albanian	8381	Frisian	7089	Malagasy	7771	Somali	8379
Ameharic	6577	Galician	7176	Malay	7783	Spanish	6983
Arabic	6582	Georgian	7565	Malayalam	7776	Sudanese	8385
Armenian	7289	German	6869	Maltese	7784	Swahili	8387
Assamese	6583	Greek	6976	Maori	7773	Swedish	8386
Aymara	6588	Greenlandic	7576	Marathi	7782	Tagalog	8476
Azerbaijani	6590	Guarani	7178	Moldavian	7779	Tajik	8471
Bashkir	6665	Gujarati	7185	Mongolian	7778	Tamil	8465
Basque	6985	Hausa	7265	Nauru	7865	Tatar	8484
Bengali; Bangla	6678	Hebrew	7387	Nepali	7869	Telugu	8469
Bhutani	6890	Hindi	7273	Norwegian	7879	Thai	8472
Bihari	6672	Hungarian	7285	Oriya	7982	Tibetan	6679
Breton	6682	Icelandic	7383	Panjabi	8065	Tigrinya	8473
Bulgarian	6671	Indonesian	7378	Pashto, Pushto	8083	Tonga	8479
Burmese	7789	Interlingua	7365	Persian	7065	Turkish	8482
Byelorussian	6669	Irish	7165	Polish	8076	Turkmen	8475
Cambodian	7577	Italian	7384	Portuguese	8084	Twi	8487
Catalan	6765	Japanese	7465	Quechua	8185	Ukrainian	8575
Chinese	9072	Javanese	7487	Rhaeto-Romance	8277	Urdu	8582
Corsican	6779	Kannada	7578	Rumanian	8279	Uzbek	8590
Croatian	7282	Kashmiri	7583	Russian	8285	Vietnamese	8673
Czech	6783	Kazakh	7575	Samoan	8377	Volapük	8679
Danish	6865	Kirghiz	7589	Sanskrit	8365	Welsh	6789
Dutch	7876	Korean	7579	Scots Gaelic	7168	Wolof	8779
English	6978	Kurdish	7585	Serbian	8382	Xhosa	8872
Esperanto	6979	Laothian	7679	Serbo-Croatian	8372	Yiddish	7473
Estonian	6984	Latin	7665	Shona	8378	Yoruba	8979
Faroese	7079	Latvian, Lettish	7686	Sindhi	8368	Zulu	9085

Area Codes

Choose an area code from this list.

Area	Code	Area	Code	Area	Code	Area	Code
Afghanistan	AF	Ethiopia	ET	Malaysia	MY	Saudi Arabia	SA
Argentina	AR	Fiji	FJ	Maldives	MV	Senegal	SN
Australia	AU	Finland	FI	Mexico	MX	Singapore	SG
Austria	AT	France	FR	Monaco	MC	Slovak Republic	SK
Belgium	BE	Germany	DE	Mongolia	MN	Slovenia	SI
Bhutan	BT	Great Britain	GB	Morocco	MA	South Africa	ZA
Bolivia	BO	Greece	GR	Nepal	NP	South Korea	KR
Brazil	BR	Greenland	GL	Netherlands	NL	Spain	ES
Cambodia	KH	Islands	HM	Netherlands Antilles	AN	Sri Lanka	LK
Canada	CA	Hong Kong	HK	New Zealand	NZ	Sweden	SE
Chile	CL	Hungary	HU	Nigeria	NG	Switzerland	CH
China	CN	India	IN	Norway	NO	Taiwan	TW
Colombia	CO	Indonesia	ID	Oman	OM	Thailand	TH
Congo	CG	Israel	IL	Pakistan	PK	Turkey	TR
Costa Rica	CR	Italy	IT	Panama	PA	Uganda	UG
Croatia	HR	Jamaica	JM	Paraguay	PY	Ukraine	UA
Czech Republic	CZ	Japan	JP	Philippines	PH	United States	US
Denmark	DK	Kenya	KE	Poland	PL	Uruguay	UY
Ecuador	EC	Kuwait	KW	Portugal	PT	Uzbekistan	UZ
Egypt	EG	Libya	LY	Romania	RO	Vietnam	VN
El Salvador	SV	Luxembourg	LU	Russian Federation	RU	Zimbabwe	ZW

Troubleshooting

Check the following guide for the possible cause of a problem before contacting service.

Symptom	Cause	Correction
No power.	• The power cord is disconnected.	• Plug the power cord into the wall outlet securely.
No picture	• The TV is not set to receive unit signal output.	• Insert a disc or tape. (Check that the disc or tape indicator in the display window is lit.)
	• The video cable is not connected securely.	• Select the appropriate video input mode on the TV so the picture from the unit player appears on the TV screen.
	• Wrong cable connection.	• Check the connection.
Distorted or no sound.	• The equipment connected with the audio cable is not set to receive unit signal output.	• Select the correct input mode of the audio receiver so you can listen to the sound from the unit.
	• The audio cables are not connected securely.	• Connect the audio cable into the jacks securely.
	• The power of the equipment connected with the audio cable is turned off.	• Turn on the equipment connected with the audio cable.
	• The AUDIO options are set to the wrong position.	• Set the AUDIO options to the correct position.
The playback picture is poor.	• The disc is dirty.	• Clean the disc.
	• The TV channels are not tuned in properly.	• Check tuning, carry out tuning again.
	• Tape heads are dirty.	• Clean video heads.
	• Tape is a rental or was recorded on another VCR.	• Use ▲/▼ (TRK +/-) for manual tracking adjustment while tape is playing.
The unit does not start playback.	• No disc is inserted. • No tape is inserted.	• Insert a disc or tape. (Check that the disc or tape indicator in the display window is lit.)
	• An unplayable disc is inserted.	• Insert a playable disc. (Check the disc type and Regional code.)
	• The disc is placed upside down.	• Place the disc with the playback side down.
	• The disc is not placed within the guide.	• Place the disc on the disc tray correctly inside the guide.
	• The disc is dirty.	• Clean the disc.
	• The Rating level is set.	• Cancel the Rating function or change the Rating level.

Operation

Symptom	Cause	Correction
Video tape cannot be inserted.	• Is the cassette compartment empty?	• Eject the tape in.
No Hi-Fi sound	• Audio mode is not set properly.	• Select STEREO by repeatedly pressing AUDIO on the Remote Control.
The Remote Control does not work properly.	• There is an obstacle in the path of the Remote Control and this unit.	• Remove the obstacle.
	• The batteries in the Remote Control are exhausted.	• Replace the batteries with new ones.
	• The Remote Control is not pointed at the remote sensor of the unit.	• Point the Remote Control at the remote sensor of the unit.
	• The remote control is too far from the unit.	• Operate the Remote Control within 23ft (7m).
	• This Remote Control use the same buttons for VCR and DVD functions (ex.PLAY).	• When using a VCR, first press the VCR button. When using a DVD, first press the DVD button.
Camcorder image is not shown.	• Camcorder is off.	• Turn camcorder on and operate properly.
Camcorder image via AV input to unit is not shown on TV screen.	• Unit SOURCE SELECT is not set to LINE1 or LINE2.	• Press INPUT to select LINE input channel (LINE1 or LINE2).

Specifications

General

Power requirements	120V, 60 Hz
Power consumption	16 W
Dimensions (approx.)	16.9" X 3.1" X 10.2" (430 X 79 X 260 mm) (w x h x d)
Net Weight (approx.)	8.8 lbs (4.0 kg)
Operating temperature	5°C to 40°C (41°F to 104°F)
Operating humidity	5 % to 90 %
Signal system	NTSC

Inputs

VHS VIDEO IN(LINE1, 2)	1 V (p-p) 75 ohms, sync negative, RCA jack x 2
VHS AUDIO IN(LINE1, 2)	-6.0 dBm more than 47 ohms, RCA jack (L, R) x 2

Outputs

VIDEO OUT	1 V (p-p) 75 ohms, sync negative
S-VIDEO OUT	(Y) 1.0 V (p-p), 75 ohms, negative sync, Mini DIN 4-pin x 1
	(C) 0.286 V (p-p) 75 ohms
COMPONENT VIDEO OUT	(Y) 1.0 V (p-p), 75 ohms, negative sync, RCA jack x 1
(PROGRESSIVE SCAN)	(Pb)/(Pr) 0.7 V (p-p), 75 ohms, RCA jack x 2
Audio output (digital audio)	0.5 V (p-p), 75 ohms, RCA jack x 1
Audio output (analog audio)	2.0 Vrms (1 KHz, 0 dB), 600 ohms, RCA jack (L, R) x 1

VCR Specifications

Head system	Four head helical scan azimuth system
Timer	12-hour display type with AM, PM
Tape speed	SP: 33.35 mm/sec, LP: 16.67 mm/sec, SLP: 11.12 mm/sec
Tape width	12.7 mm
Maximum recording time	SP: 2 HOURS (T-120), SLP: 6 HOURS (T-120)/8 HOURS (T-160)
Rewind time	About 3 minutes (T-120)
Frequency range	20 Hz to 20 kHz
Signal-to-noise ratio	More than 43 dB
Dynamic range	More than 88 dB
Channel separation	More than 60 dB

DVD Specifications

Laser system	Semiconductor laser, wavelength 650 nm
Frequency response	DVD (PCM 96 kHz): 8 Hz to 44 kHz,
	DVD (PCM 48 kHz): 8 Hz to 22 kHz
	CD: 8 Hz to 20 kHz
Signal-to-noise ratio	More than 90 dB (ANALOG OUT jacks only)
Harmonic distortion	Less than 0.02%
Dynamic range	More than 95 dB (DVD/CD)

Accessories:

Video cable x 1, Audio cable (L/R) x 1, Remote control x 1, Batteries (R03/AAA) x 2

Reference

Note : Design and specifications are subject to change without prior notice.

PHILIPS LIMITED WARRANTY
ONE (1) YEAR

WARRANTY COVERAGE:
PHILIPS warranty obligation is limited to the terms set forth below.

WHO IS COVERED:
Philips warrants the product to the original purchaser or the person receiving the product as a gift against defects in materials and workmanship as based on the date of original purchase ("Warranty Period") from an Authorized Dealer. The original sales receipt showing the product name and the purchase date from an authorized retailer is considered such proof.

WHAT IS COVERED:
The Philips warranty covers new products if a defect arises and a valid claim is received by Philips within the Warranty Period. At its option, Philips will either (1) repair the product at no charge, using new or refurbished replacement parts, or (2) exchange the product with a product that is new or which has been manufactured from new, or serviceable used parts and is at least functionally equivalent or most comparable to the original product in Philips current inventory, or (3) refund the original purchase price of the product.
Philips warrants replacement products or parts provided under this warranty against defects in materials and workmanship from the date of the replacement or repair for ninety (90) days or for the remaining portion of the original product's warranty, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes Philips' property. When a refund is given, your product becomes Philips' property.
Note: Any product sold and identified as refurbished or renewed carries a ninety (90) day limited warranty.

Replacement product can only be sent if all warranty requirements are met. Failure to follow all requirements can result in delay.

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Philips is not liable for any damage to or loss of any programs, data, or other information stored on any media contained within the product, or any non-Philips product or part not covered by this warranty. Recovery or reinstallation of programs, data or other information is not covered under this Limited Warranty.

This warranty does not apply (a) to damage caused by accident, abuse, misuse, misapplication, or non-Philips product, (b) to damage caused by service performed by anyone other than Philips or Philips Authorized Service Location, (c) to a product or a part that has been modified without the written permission of Philips, or (d) if any Philips serial number has been removed or defaced, or (e) product, accessories or consumables sold "AS IS" without warranty of any kind by including refurbished Philips product sold "AS IS" by some retailers.

This Limited Warranty does not cover:
*   Shipping charges to return defective product to Philips.
*   Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
*   Product repair and/or part replacement because of improper installation, connections to improper voltage supply, abuse, neglect, misuse, accident, unauthorized repair or other cause not within the control of Philips.
*   Damage or claims for products not being available for use, or for lost data or lost software.
*   Damage occurring to product during shipping.
*   A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
*   A product used for commercial or institutional purposes (including but not limited to rental purposes).
*   Product lost in shipment and no signature verification receipt can be provided.
*   Failure to operate per Owner's Manual.

TO OBTAIN ASSISTANCE IN THE U.S.A., PUERTO RICO, OR U.S. VIRGIN ISLANDS...
Contact Philips Customer Care Center at:
    1-888-PHILIPS (1-888-744-5477)

TO OBTAIN ASSISTANCE IN CANADA...
    1-800-661-6162 (French Speaking)
    1-888-PHILIPS (1-888-744-5477) - (English or Spanish Speaking)

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