

Digital Video Disc Player  
Owner's Manual

DVDQ50



**Important!**  
Return your  
Warranty  
Registration Card  
within 10 days.  
See why inside.



**Read this manual first!**

*Congratulations on purchasing this Philips product.  
We've included everything you need to get started.  
If you have any problems, Philips Representatives can  
help you get the most from your new product by explaining:*

- Hookups,
- First Time Setup, and
- Feature Operation.

*Do not attempt to return this product to the store.*

**For fast help, call us first!  
1-800-531-0039**

*Thank you for making Philips a part of your home!*

*Let's make things better.*



**PHILIPS**

# Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification	Owner Confirmation	Model Registration
Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS warranty.	Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.	Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

## PHILIPS

*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. And 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 "family," you're 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.

And 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.

Sincerely,

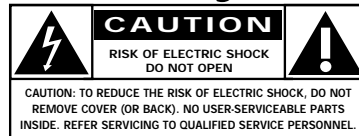



Lawrence J. Blanford  
President and Chief Executive Officer


**P.S. Remember, to get the most from your PHILIPS product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!**



### Know these safety symbols



 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 PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.**

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

**ATTENTION:** Pour éviter les choc électriques, 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>

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As an ENERGY STAR® Partner, Philips Consumer Electronics has determined this product meets the ENERGY STAR® guidelines for energy efficiency. ENERGY STAR® is a U.S. registered mark. Using products with the ENERGY STAR® label can save energy. Saving energy reduces air pollution and lowers utility bills.

Manufactured under license from Dolby Laboratories. "Dolby," "Pro Logic," and the double-D symbol are trademarks of Dolby Laboratories. "DTS" and "DTS DIGITAL SURROUND" are registered trademarks of Digital Theater Systems, Inc. SmartPicture™ and Digital CrystalClear™ are trademarks of Philips Consumer Electronics. Copyright 2001 Philips Consumer Electronics.

## 4 Safety Information

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### Safety Precautions

**Warning:** To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

**Federal Communications Commission (FCC) Warning:** Any unauthorized changes or modifications to this equipment void the user's authority to operate it.

### Laser Safety

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

**CAUTION:** Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. The set complies with the FCC-Rules, Part 15 and with 21 CFR 1040.10.

**CAUTION:** Visible and invisible laser radiation when open and interlock defeated. Do not stare into the beam. The beam is located inside, near the deck mechanism.

### Special Information for Canadian Users

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.

### Radio/TV Interference

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

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

### Copyright Protection


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

### Declaration of Conformity

Model Number: DVDQ50  
Trade Name: Philips  
Responsible Party: Philips Consumer Electronics  
P.O. Box 14810, Knoxville, TN 37914-1810  
(865) 521-4316

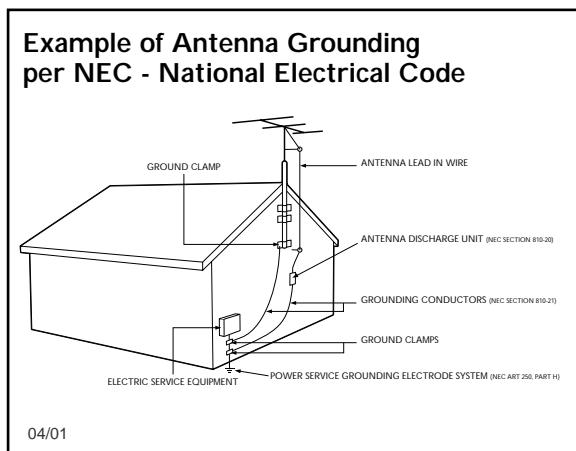
# Safety Information (cont'd) 5

## IMPORTANT SAFETY INSTRUCTIONS. READ BEFORE OPERATING EQUIPMENT.

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 a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type 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 third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at 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 a cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as if the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, or if the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. 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](http://www.eiae.org)
16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
  - A. The power supply cord or the plug has been damaged; or
  - B. Objects have fallen, or liquid has been spilled into the appliance; or
  - C. The appliance has been exposed to rain; or
  - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
  - E. The appliance has been dropped, or the enclosure damaged.

17. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
  - Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
  - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
18. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
19. **Power Lines** - An outdoor antenna should be located away from power lines.
20. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Figure below.
21. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
22. **Battery usage CAUTION** - To prevent battery leakage that may result in bodily injury or damage to the unit:
  - Install all batteries correctly, with + and - aligned 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.



# 6 Introduction

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## Welcome!

This Digital Video Disc Player will allow you to enjoy better picture quality, clearer sound, and endless playback features on Digital Video Discs (DVDs). Expanding technology allows you to add options to your viewing - watch a director's cut of a movie, hear a movie in different languages, or play your favorite scene repeatedly. The possibilities are limited only by your choices and the materials available on the DVD.

Of course, you can listen to your favorite Audio Compact Discs on this DVD Player, too. Determine the order in which you want to hear the songs, or play the Disc repeatedly - all while seeing the status of the CD on your television.

We hope you enjoy this DVD Player and learn to use its features. To get the most from the Player, read this manual carefully. It describes how you can use the features.

## Features

- Access Control\*
- Audio Language choices\*
- Automatic Detection of Disc type (Audio CD, Video CD, or DVD)
- Camera Angle\*
- Digital CrystalClear™
- Digital Theater System
- Display
- Dolby Digital Surround Sound
- DVD Menus in a desired language\*
- Fast Forward/Reverse Search
- Favorite Track Selection
- Karaoke Vocal\*
- NTSC/PAL compatibility
- Paused/Fast/Slow/Step-by-Step Playback
- Progressive Scan compatibility
- Random Playback
- Repeat (A-B segment, Chapter, Title, Track, Disc)
- Screen Saver
- Smart Power
- Subtitles in a Desired Language \*
- Time Search
- Wake-up Timer
- Zoom Playback

\* If available on the Disc

## When referring to this manual, remember...

**DVD** Indicates the feature is available on some Digital Video Discs.

**AUDIO CD** Indicates the feature is available on some Audio Compact Discs.

**VIDEO CD** Indicates the feature is available on some Video Compact Discs.


## Disc Menus...

Some explanations in this manual describe the Disc Menus, which vary among Discs. Movie producers and the music industry set these menus. Not all Discs have menus. But, if the Disc has a menu, access the Disc Menu by pressing the DISC MENU button on the remote control. *Details are on pages 17-18.*

## DVD Player Menus...

Some instructions explain how to use the DVD Player's menu (or the System Menu) to set up features of the DVD Player or the Disc. You get to the DVD Player Menu by pressing SYSTEM MENU on the remote control. Even if a feature is set up in the DVD Player's menu, it will not be available if the current Disc does not include that feature.

## Available Disc Features...

 Features in this manual may not be available on every disc. If the feature is not available, you cannot use the DVD Player to make the feature available. An "X" will appear in the top left corner of the TV screen if you try to access a feature that is not currently available on the current Disc.




## Copyright Protection

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

# Playable Discs 7

## Playable Discs

This DVD Player will play Digital Video Discs (DVDs), Video CDs, Super Video CDs, and Audio CDs. This Player also supports the MP3 format, or music tracks that are compressed with MPEG Audio Layer 3 technology. In order to play a Disc on this DVD Player, make sure the Disc meets the requirements for Region Codes and Color Systems described below. The Discs should have the following logos and should meet these standards.

Disc Type	Logo	Contents	Disc Size	Maximum Playback Time	Disc Segments
Digital Video Disc		Sound and Pictures	12 cm	Approx. 4 hours (single-sided) Approx. 8 hours (double-sided)	DVDs are divided into Titles, which are divided into Chapters. Titles and Chapters are numbered.
			8 cm	Approx. 80 minutes (single-sided) Approx. 160 minutes (double-sided)	
Audio CD		Sound	12 cm	74 minutes	Audio CDs are divided into numbered Tracks, i.e., a track may be one song.
			8 cm (singles)	20 minutes	
Video CD		Sound and Pictures			Video CDs are divided into Tracks.

## Region Codes

DVDs must be labeled for ALL regions or for Region 1 in order to play on this DVD Player. You cannot play Discs that are labeled for other regions.

Look for the symbols below on your DVDs. If these region symbols do not appear on your DVD, you cannot play the DVD in this DVD Player.



The number inside the globe refers to a region of the world. Region 1 represents the United States, Canada, upper regions of North America, Bermuda, the U.S. Virgin Islands, and small regions near Australia.

A Disc encoded in a specific region format can play only on DVD Players with the same region code. For example, if a Disc is labeled for Region 2, you cannot play the DVD on this DVD Player.

## Color Systems

Different color systems are available throughout the world. The most common color systems are NTSC, which is used primarily in the United States and North America, PAL, and SECAM.

This DVD Player can use either the NTSC or PAL color system. Follow the steps on page 16 to select NTSC or PAL for the DVD Player. Choose a setting that matches the color system of your TV. Make sure the Discs you play are in NTSC or PAL. The color system of the DVD may appear on the DVD or on the Disc case.

### Helpful Hints

- Super Video CDs are based on the Super VCD 1.0 Standard, referring to the Standard of Electronics Industry of the People's Republic of China.
- On multi-session discs, this DVD Player supports only the first session.

## 8 General Information

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### Putting Batteries in the Remote Control

1

Remove the battery compartment lid on the back of the remote control by pressing in the tab, then lifting off the lid.

2

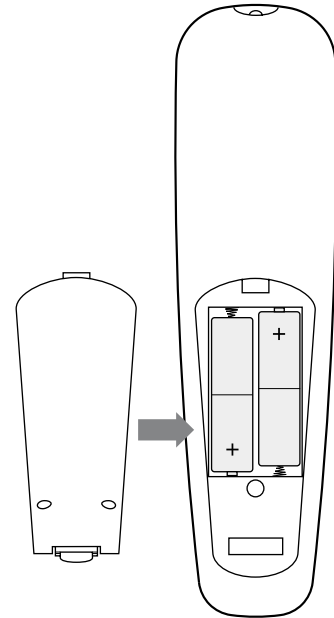
Place two AA batteries inside the battery compartment with their + and – ends aligned as indicated. Do not mix old and new batteries or different types of batteries (standard, alkaline, etc.).

3

Replace the battery compartment lid.

#### Package Contents

- DVD Player
- Remote control with two AA batteries
- S-Video cable (black)
- Three-strand Audio/Video cable (red, white, yellow)
- AC power cord
- Owner's manual



### Using the Remote Control

Unless stated otherwise, the remote control can perform all operations. Always point the remote control directly at the remote sensor on the front of the DVD Player, not the TV. *Details are on page 20.* Make sure there are no barriers between the remote control and the DVD Player.

### Environmental Information

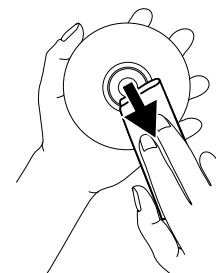
Your system consists of materials that can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

### Safety Information

- Do not expose the system to excessive moisture, rain, sand, or heat sources.
- Place the DVD Player on a firm, flat surface.
- Keep the DVD Player away from domestic heating equipment and direct sunlight.
- When placing the DVD Player in a cabinet, allow about one inch of space all around the DVD Player for ventilation.

### Cleaning Discs

- When a Disc becomes dirty, clean it with a cleaning cloth. Wipe the Disc from the center out, in a straight line.
- Do not use solvents such as benzine, thinner, commercially available cleaners, or anti-static spray intended for analog discs.
- If the DVD Player cannot read Discs correctly, use a commonly available cleaning CD/DVD to clean the lens. Other cleaning methods may destroy the lens. Always keep the tray closed to avoid dust on the lens.
- The lens may cloud over if you suddenly move the DVD Player from cold to warm surroundings. Playing a Disc is not possible then. Leave the power on for about one hour with no Disc in the unit until normal playback is possible.





## Determining the best possible connection...

The capabilities of your existing equipment will determine your connection possibilities. However, the following guidelines describe which options have the best picture and sound quality.

- ★★★★ Component Video provides the best picture quality. Progressive Scan Component Video has the highest quality, but use it only if the TV has Progressive Scan.
- ★★★ Use the S-Video jack for excellent picture quality.
- ★★ Use the yellow CVBS Video jack for good picture quality.
- ★★ **If your TV only has an RF-style jack, usually labeled Antenna In or 75 ohm, you will need an adapter in order to connect the DVD Player to the TV.** Ask your electronics retailer for details. Many retailers refer to this adapter as an RF modulator or RF adapter.
  
- ★★★★ Digital audio connections provide the clearest sound. Connect one of the DVD Player's DIGITAL AUDIO OUT jacks (COAXIAL or OPTICAL) to your Stereo for the best sound quality.
- ★★★ If digital connections are not possible, connect the DVD Player's red and white AUDIO OUT jacks to the Audio In jacks of your Stereo or TV.

## Before you begin...

- Refer to the manuals of your TV, VCR, Stereo or other devices as necessary. Note the style of jacks and connectors on the other equipment. Determine how to choose different Audio and Video In channels on your other equipment so you can see and hear the DVD Player on the TV, Stereo, etc.
- Disconnect all equipment from the power outlets. Connect the equipment to the power outlets only after you have finished hooking up everything. Never make or change connections with equipment connected to the power outlet.

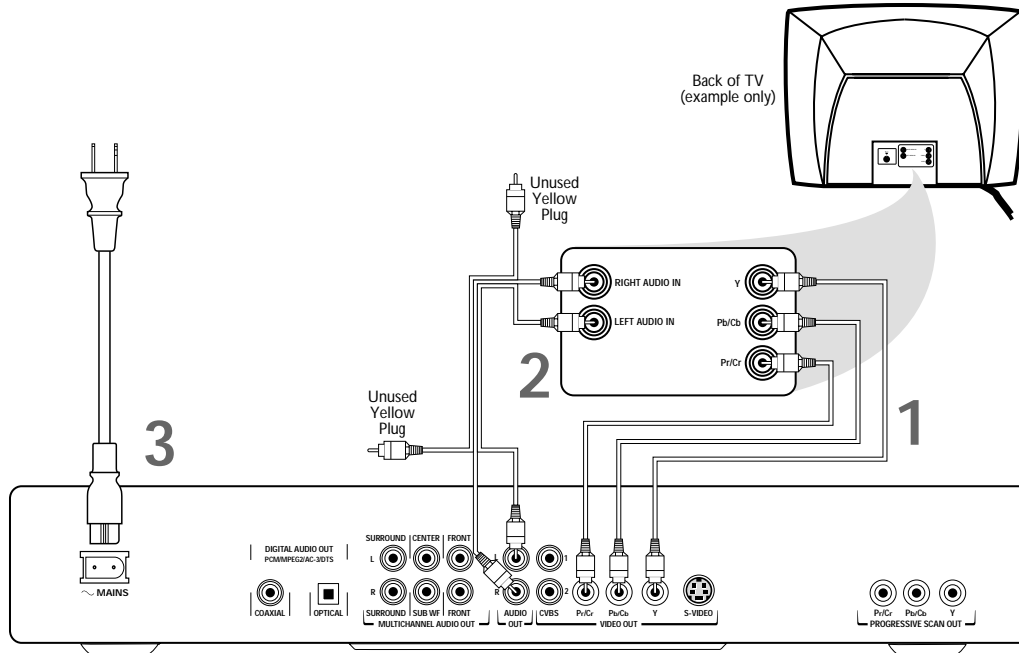
## Remember...

- Connect the DVD Player directly to the TV. For example, do not connect the DVD Player to a VCR, then connect the VCR to a TV. This type of connection may distort the picture and sound. Also, your VCR might have the copy protection system, which could further distort the DVD image.
- Set the TV to the correct Video In channel. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1 or EXT2, etc. These channels often are located near channel 00. See your TV manual for details. Or, change TV channels until you see the DVD logo on the TV.
- Set the Stereo to the correct channel or "source" mode.
- Do not connect the DVD Player's AUDIO OUT jacks to the PHONO IN jack of your Stereo.
- You only need one audio connection and one video connection.

Once you determine the best option, find your choice on pages 10-15. Follow the steps for the hookup you chose.

## 10 Hookups (cont'd)

### Connecting to a TV Only TV has Component Video In Jacks



1

Connect the Pr/Cr Pb/Cb Y VIDEO OUT jacks on the DVD Player to the corresponding Pr/Cr Pb/Cb Y VIDEO IN jacks on the TV. Use component video cable (not supplied).

2

Connect the red and white cables of the supplied three-prong audio/video cable to one set of the Left and Right AUDIO OUT jacks on the DVD Player. Connect the other end of the cables to the left/right AUDIO IN jacks on the TV. Match the cable colors to the jack colors.

3

Connect the flat end of the DVD Player's power cord (supplied) to the MAINS (AC Power) jack on the back of the DVD Player.

Connect the power cords of the DVD Player and the TV to the power outlet.

Turn on the TV power. Press STANDBY-ON on the front of the DVD Player to turn on the DVD Player. The Standby light will disappear.

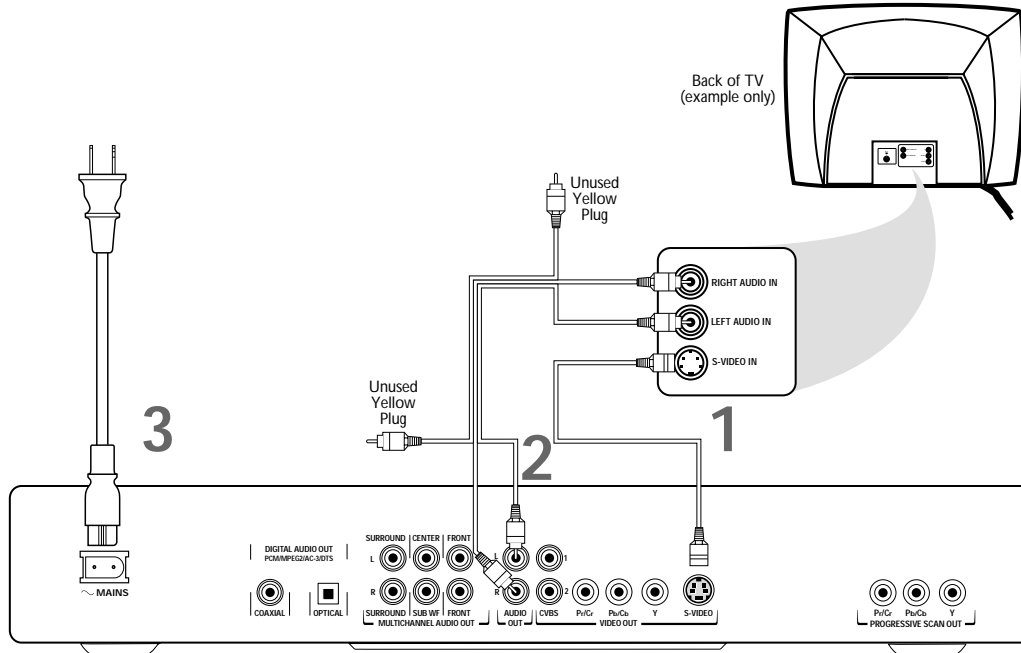
4

Set the TV to the correct Component Video In channel. See your TV owner's manual for details. Or, change channels at the TV until you see the DVD logo on the TV screen.

#### Helpful Hints

- If your TV has Progressive Scan, connect the DVD Player's Pr/Cr Pb/Cb Y PROGRESSIVE SCAN OUT jacks to the TV's Progressive Scan In jacks (instead of using the VIDEO OUT jacks as described in step 1). Progressive Scan produces a clearer picture by doubling the number of visible picture lines per field. This provides a jitter-free, sharp, quiet picture. Only use these connections if your TV has Progressive Scan capabilities. Check your TV manual for more information.
- On the TV, the component video in jacks may be labeled YUV or Pr/Cr Pb/Cb Y and may be green, blue, and red.

## Connecting to a TV Only TV has an S-Video In Jack



**1**

Connect the supplied S-Video cable to the S-VIDEO OUT jack of the DVD Player and to the TV's S-VIDEO IN jack.

**2**

Connect the red and white cables of the supplied three-prong audio/video cable to one set of the Left and Right AUDIO OUT jacks on the DVD Player. Connect the other end of the cables to the left/right AUDIO IN jacks on the TV. Match the cable colors to the jack colors.

**3**

Connect the flat end of the DVD Player's power cord (supplied) to the MAINS (AC Power) jack on the back of the Player.

Connect the power cords of the Player and the TV to a power outlet.

Turn on the TV power. Press STANDBY-ON on the DVD Player to turn on the Player. The Standby light will disappear.

**4**

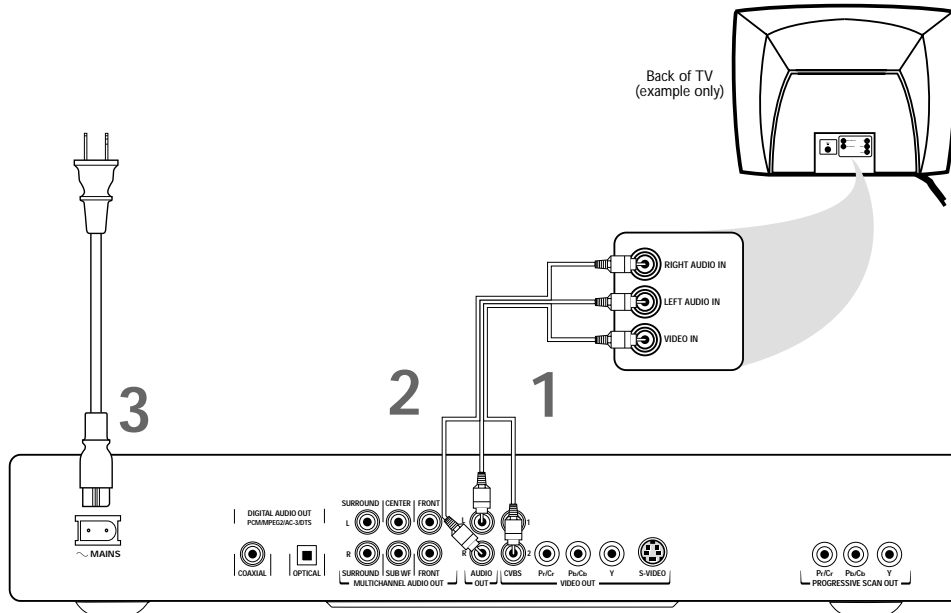
Set the TV to the correct S-Video In channel. This channel might be near channel 00. See your TV owner's manual for details. Or, change channels at the TV until you see the DVD logo on the TV screen.

### Helpful Hint

- On the TV, the S-Video In jack may be labeled Y/C, S-Video, or S-VHS (super video).

## 12 Hookups (cont'd)

### Connecting to a TV Only TV has a yellow CVBS Video In jack



1

Connect the yellow CVBS VIDEO OUT jack of the DVD Player to the corresponding VIDEO IN jack on your TV. Use the yellow cable of the supplied three-prong audio/video cable.

2

Connect the red and white cables of the supplied three-prong audio/video cable to one set of the Left and Right AUDIO OUT jacks on the DVD Player. Connect the other end of the cables to the left/right AUDIO IN jacks on the TV. Match the cable colors to the jack colors.

3

Connect the flat end of the DVD Player's power cord (supplied) to the MAINS (AC Power) jack on the back of the DVD Player. Connect the power cords of the DVD Player and the TV to a power outlet. Turn on the power of the TV. Press the STANDBY-ON button on the front of the DVD Player to turn on the DVD Player. The Standby light will disappear.

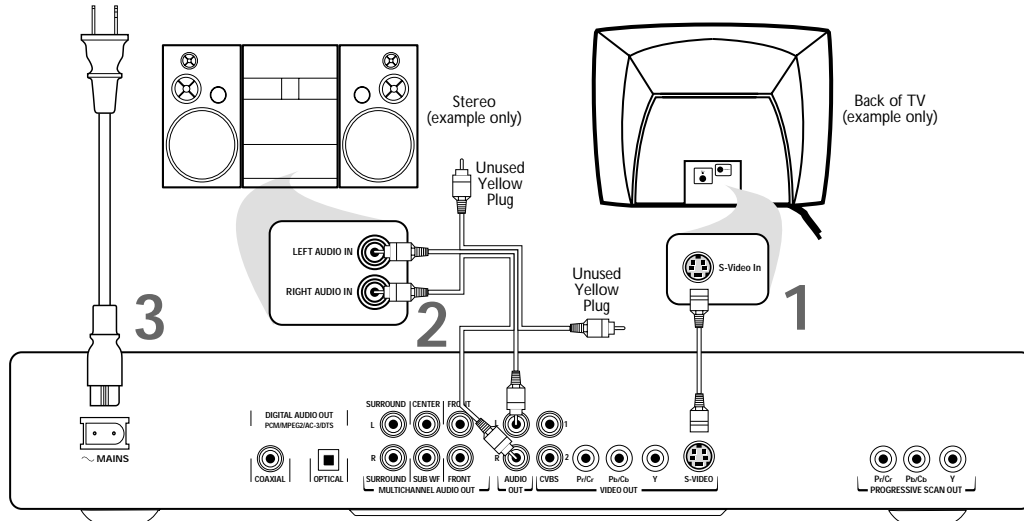
4

Set the TV to the correct Audio/Video In channel. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1 or EXT2, etc. These channels often are near channel 00. See your TV owner's manual for details. Or, change channels at the TV until you see the DVD logo on the TV screen.

#### Helpful Hint

- On the TV, the Video In jack is usually yellow and might be labeled video, CVBS, composite, or baseband.

## Connecting to a TV and a two-channel Stereo (Stereo has Dolby Pro Logic or right/left Audio In jacks)



# 1

Connect the supplied S-Video cable to the S-VIDEO OUT jack of the DVD Player and to the TV's S-VIDEO IN jack. Or, use the CVBS VIDEO OUT jack or Component VIDEO OUT jacks. *Details are on pages 10 and 12.* You only need one video connection.

# 2

Connect the red and white cables of the supplied three-prong audio/video cable to one set of the Left and Right AUDIO OUT jacks on the DVD Player. Connect the other end of the cables to the left/right AUDIO IN jacks on the Stereo. Match the cable colors to the jack colors.

# 3

Connect the flat end of the DVD Player's power cord (supplied) to the MAINS (AC Power) jack on the back of the DVD Player. Connect the power cords of the DVD Player, TV, and Stereo to a power outlet.

Turn on the power of the TV and the Stereo. Press **STANDBY-ON** on the front of the DVD Player to turn on the DVD Player. The Standby light will disappear.

# 4

Set the TV to the correct Video In channel. Refer to your TV manual. Or, change TV channels until the DVD logo is on the TV.

# 5

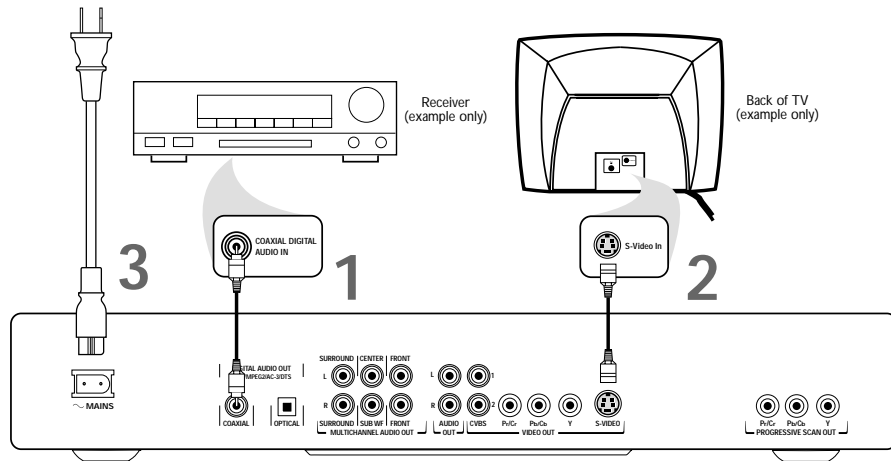
Set your Stereo to the correct Audio In channel or sound source. Refer to the Stereo owner's manual.

### Helpful Hint

- Set the Analog output accordingly. *Details are on page 48.*

## 14 Hookups (cont'd)

### Connecting to a TV and a Stereo Receiver (Receiver has PCM, Dolby Digital™, MPEG2, or Digital Theater System)



1

Connect one of the DVD Player's **DIGITAL AUDIO OUT** jacks (**COAXIAL** or **OPTICAL**) to the corresponding **DIGITAL AUDIO IN** jack on your Stereo. You only need one connection. Use a digital audio cable (not supplied).

2

Connect the supplied S-Video cable to the **S-VIDEO OUT** jack of the DVD Player and to the TV's **S-VIDEO IN** jack. Or, use the **CVBS VIDEO OUT** jack or **Component VIDEO OUT** jacks. Details are on pages 10 and 12. You only need one video connection.

3

Connect the flat end of the DVD Player's power cord (supplied) to the **MAINS (AC Power)** jack on the back of the DVD Player.

Connect the power cords of the DVD Player, TV, and Stereo Receiver to the power outlet. Turn on the power of the TV and the Stereo Receiver. Press **STANDBY-ON** on the front of the DVD Player to turn on the DVD Player. The Standby light will disappear.

4

Set the TV to the correct **Video In** channel. Refer to your TV manual. Or, change TV channels until you see the DVD logo on the TV.

Set your Stereo Receiver to the correct **Audio In** channel or sound source. Refer to the Stereo's manual.

5

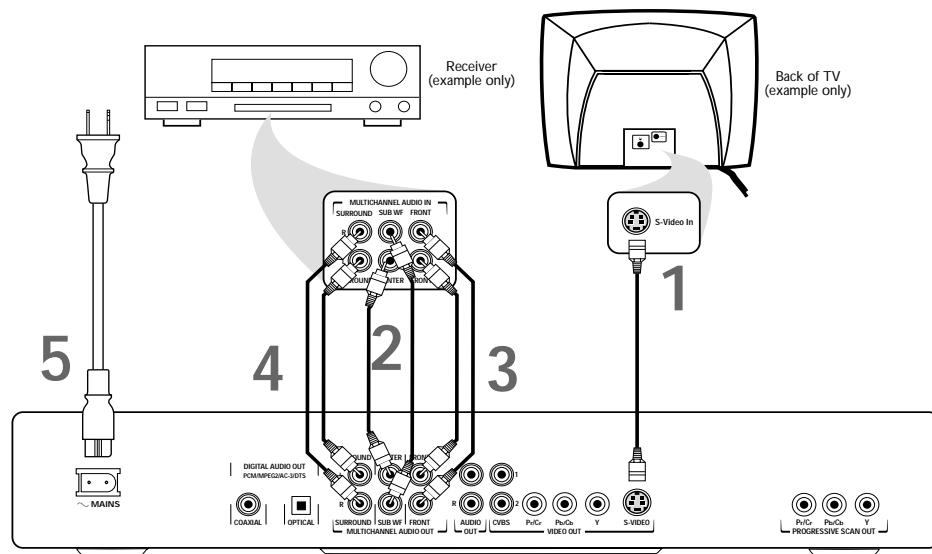
Set the DVD Player's digital output. Details are on page 47.

#### Helpful Hints

- If your Digital Output setting does not match your Stereo's capabilities, the Stereo may produce a strong, distorted sound or no sound at all.
- You can obtain a six-channel digital surround sound with this connection only if your Stereo has a digital multi-channel decoder.
- Your Stereo must support MPEG2, Dolby Digital™ or Digital Theater System (DTS). Check the Stereo's manual.
- When playing MP3 files, you may not hear sound if you use the DIGITAL AUDIO OUT jacks. See page 40 for details.
- You may connect a subwoofer (not supplied) to the SUB W.F. OUT jack on the DVD Player. Follow the instructions supplied with the subwoofer.

## Hookups (cont'd) 15

### Connecting to a TV and to a Six-channel Receiver (Dolby Digital & DTS)



1

Connect the supplied S-Video cable to the S-VIDEO OUT jack of the DVD Player and to the TV's S-VIDEO IN jack. Or, use the DVD Player's CVBS VIDEO OUT jack or Component VIDEO OUT jacks to connect to the TV. Details are on pages 10 and 12. You only need one video connection.

2

Connect the CENTER jack on the DVD Player to the CENTER IN jack on your Receiver. Connect the SUB WF. jack of the DVD Player to the SUBWOOFER IN jack on your Receiver.

3

Connect the FRONT Left and Right OUT jacks of the DVD Player to the FRONT Left and Right IN jacks on your Receiver.

4

Connect the SURROUND Left and Right OUT jacks of the DVD Player to the SURROUND Left and Right IN jacks on your Receiver. Your Receiver may refer to Surround as Rear. These are the same.

5

Connect the flat end of the DVD Player's power cord (supplied) to the MAINS (AC Power) jack on the back of the DVD Player. Connect the power cords of the DVD Player, TV, and Receiver to the power outlet. Turn on the power of the TV and the Receiver. Press STANDBY-ON on the DVD Player to turn on the DVD Player. The Standby light will disappear.

6

Set the TV to the correct Video In channel. Refer to your TV manual. Or, change TV channels until you see the DVD logo on the TV. Set your Receiver to the correct Audio In channel or sound source. Refer to the Receiver's manual.

7

Set Analog output to Multi-channel, then adjust the Speaker settings. Details are on pages 48- 49.

## 16 TV System (NTSC/PAL), Black Level Shift

### TV System (NTSC/PAL)

Switch the NTSC/PAL setting of the DVD Player to match the color system of your TV. Most TVs in the United States use the NTSC color system. If your TV uses NTSC, set the DVD Player to NTSC. Discs you play should have the same color system (NTSC or PAL) that you chose for the DVD Player and TV. To change the DVD Player's NTSC/PAL setting, follow these steps.

1

Press **SYSTEM MENU**. will be selected.

2

Press **▼** to select , then press **▶**.

3

Press **▼** repeatedly to select **TV System**, then press **▶**.

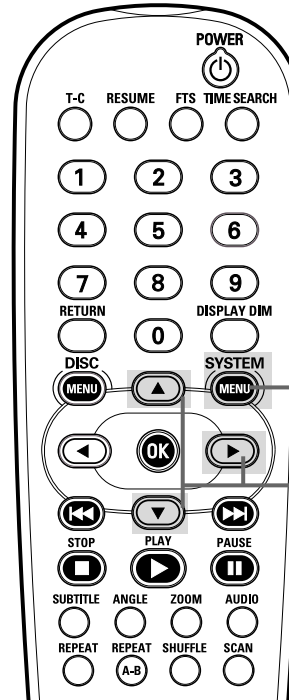
4

Press **▲** or **▼** to choose **PAL**, **NTSC**, or **Auto**. Choose Auto only if your TV has both NTSC and PAL and you are using the (CVBS) VIDEO OUT jack.

5

Press **SYSTEM MENU** to remove the menus.

You may need to turn off the DVD Player, then turn it on again, before your NTSC/PAL changes take effect.



1,5

2-4

### Black Level Shift

If you set the DVD Player to NTSC, set Black level shift to On. This will improve the color contrast during Disc playback. Black level shift has no effect if the DVD Player is set to PAL. To set Black level shift to On, follow these steps.

1

Press **SYSTEM MENU**. will be selected.

2

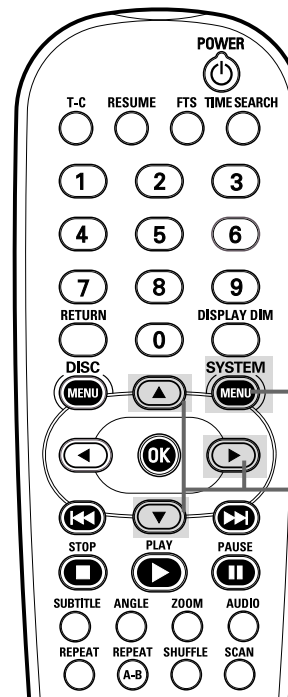
Press **▼** to select , then press **▶**.

3

Press **▼** to select **Black level shift**, then press **▶**.  
Press **▲** or **▼** to select **On** or **Off**, then press **OK**.

4

Press **SYSTEM MENU** to remove the menu.



1,4

2-3

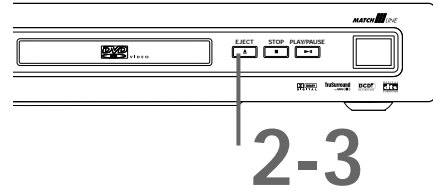


# Quick Disc Playback 17

DVD AUDIO CD VIDEO CD

## Playing a Disc

There are many playback features and options available on DVDs and Audio CDs. After familiarizing yourself with the DVD Player and its remote control as described on pages 20-25, see pages 26 and following to try additional playback features.



1

Press the **POWER** button to turn on the DVD Player. The Standby light will disappear.

Turn on your TV. Set it to the correct Video In channel. You should see the DVD logo on the TV screen. *Details are on page 9.*

2

Press **EJECT** on the front of the DVD Player to open the disc tray. Load your Disc in the tray, with the label facing up. If the Disc is two-sided, make sure the side you want to play is facing up.

3

Press **EJECT** again to close the tray. Playback may begin automatically.

4

If DVD playback does not start automatically, a Disc menu may appear. If the Title or Chapter selections are numbered, press a **Number** button to select an item. Or, press the **▼ ▲ ◀ ▶** buttons to select an item, then press **OK**. Playback will begin.

If Audio CD playback does not start automatically, press **PLAY ▶** to begin Audio CD playback.

5

Playback will stop at the end of the Title or after the last Track.

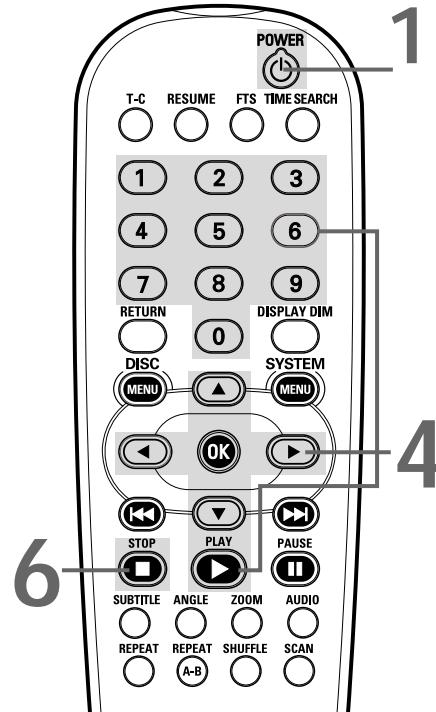
6

To stop playback at any time, press **STOP ■**.

To resume playback at the point at which you last stopped playback on a DVD, press **RESUME**.

Or, press **PLAY ▶**, and while you see the resume symbol on the TV screen, press **PLAY ▶** again. *Details are on page 25.*

The resume feature applies not only to the current DVD, but also to the last four discs you played. Reload a DVD and press the **RESUME** button. Or, press **PLAY ▶** while you see the resume symbol on the TV screen.



### Helpful Hints

- If the Disc is Locked by Access Control, you must enter the four-digit code or authorize the Disc. *Details are on pages 30-34.*
- DVDs have a region code. Your Player will not play discs that have a region code different from the region code of your Player. The Player's region code is 1 (one). *Details are on page 7.*
- Resume may not be available with some DVDs.

## 18 Quick Disc Playback (cont'd)

### DVD

#### Title/Disc menus

1

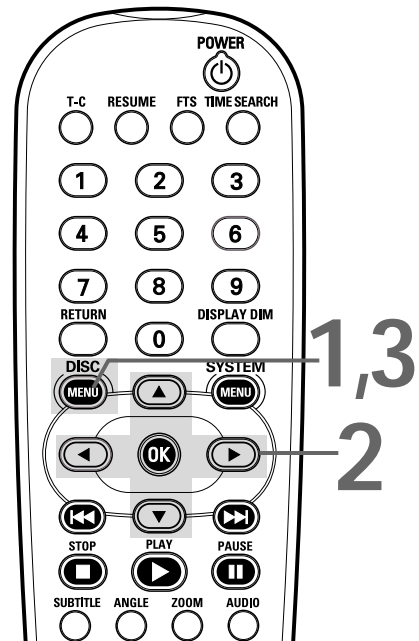
Press the **DISC MENU** button during DVD playback. If the current Title of the current Disc has a menu, the Title menu will appear on the screen. Otherwise, the Disc menu will appear. The menu may list camera angles, spoken language and subtitle options, and Chapters for the Title.

2

Press the **▼▲◀▶** buttons on the remote control to select items in the menu, then press **OK** to continue. Continue until you set up all the features you want.

3

If you do not start Disc playback from the menu, press the **DISC MENU** button to remove the menu and resume playback.



### VIDEO CD

#### Playback Control (PBC)

This feature is available only on Video CDs. The Video CD must be compatible with Playback Control. Check the Video CD case for details.

1

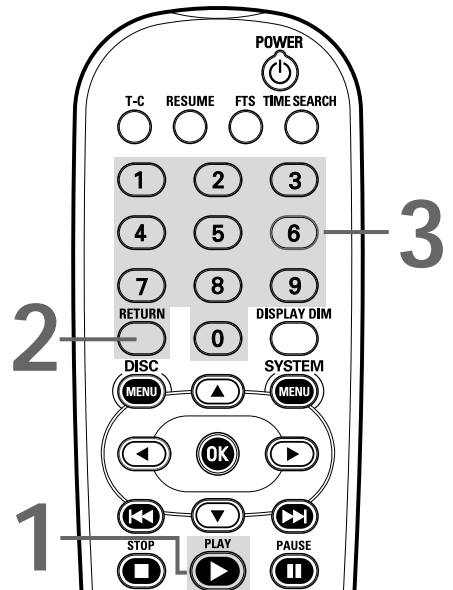
Load a Video CD with PBC and press the **PLAY ►** button. The Video CD will show instructions or options on the TV screen. Use the DVD Player's remote control buttons as directed by the Video CD.

2

Press **RETURN** to go to a previous menu.

3

If a PBC menu has Titles, select a Title directly by pressing the **Number** buttons on the remote.



#### Helpful Hint

- You may turn off PBC. Press the **SYSTEM MENU** button. **↑** will be selected; press **▼** repeatedly to select **□**, then press **►**. Press **▼** repeatedly to select **PBC**, then press **►**. Press **▲** or **▼** to choose **On** or **Off**, then press **OK**. Press the **SYSTEM MENU** button to remove the menu.

## Quick Disc Playback (cont'd) 19

DVD AUDIO CD VIDEO CD

### Forward and Reverse Searching

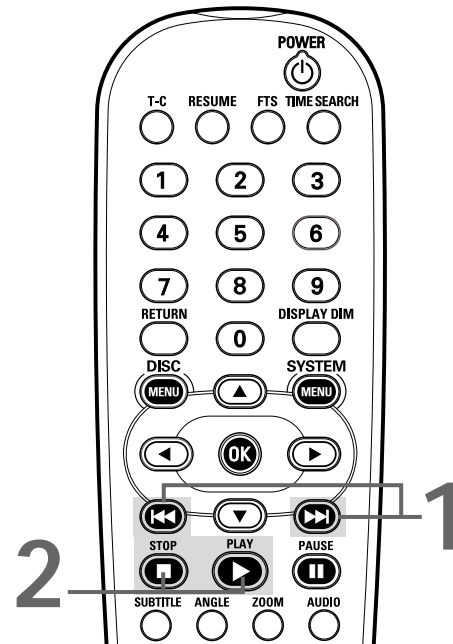
1

On a DVD, to search the Disc at four times the normal speed, press and hold **◀◀** or **▶▶** for about two seconds during playback. To search at 32 times the normal speed, press and hold **◀◀** or **▶▶** again. The sound will be mute during searching on a DVD.

On an Audio CD, to search the Disc at four times the normal speed, press and hold **◀◀** or **▶▶** for about two seconds during playback. Sound will be muted partially. To search at eight times the normal speed, press and hold **◀◀** or **▶▶** again. The sound will be muted. Each press and hold of **◀◀** or **▶▶** switches between the slower and faster search speed.

2

To end the search, press **▶** to resume playback or press **■** to stop playback.



DVD AUDIO CD VIDEO CD

### Selecting Another Chapter/Track

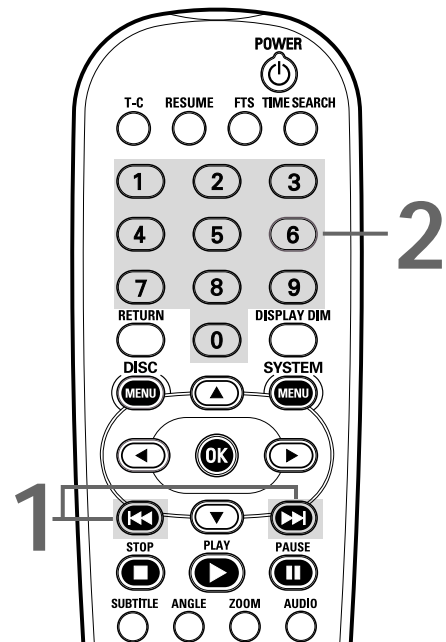
1

Press **▶▶** briefly during playback to go to the next Track/Chapter. Press **◀◀** briefly to return to the beginning of the current Track/Chapter.

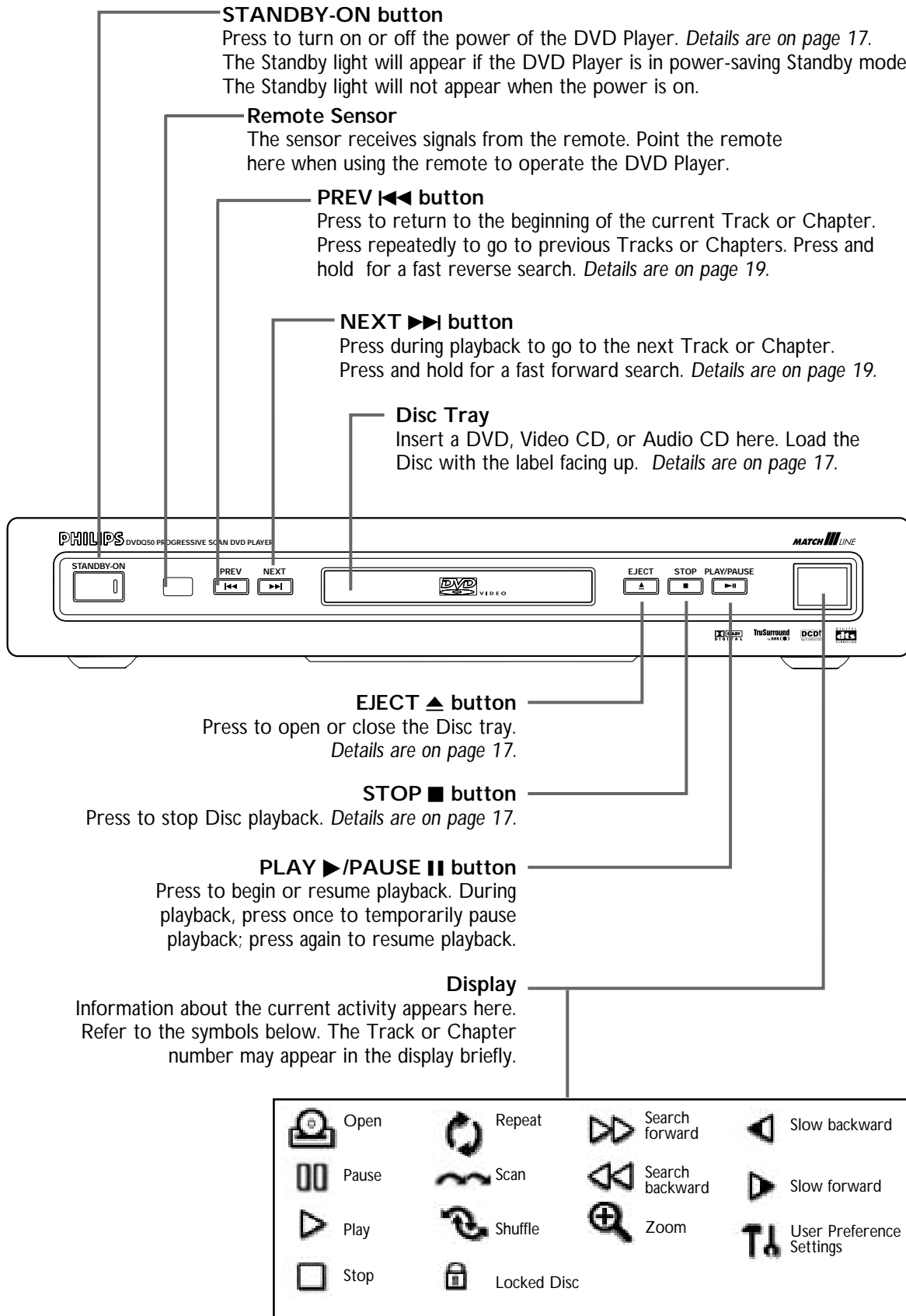
Press **◀◀** repeatedly and quickly to step back to previous Tracks/Chapters.

2

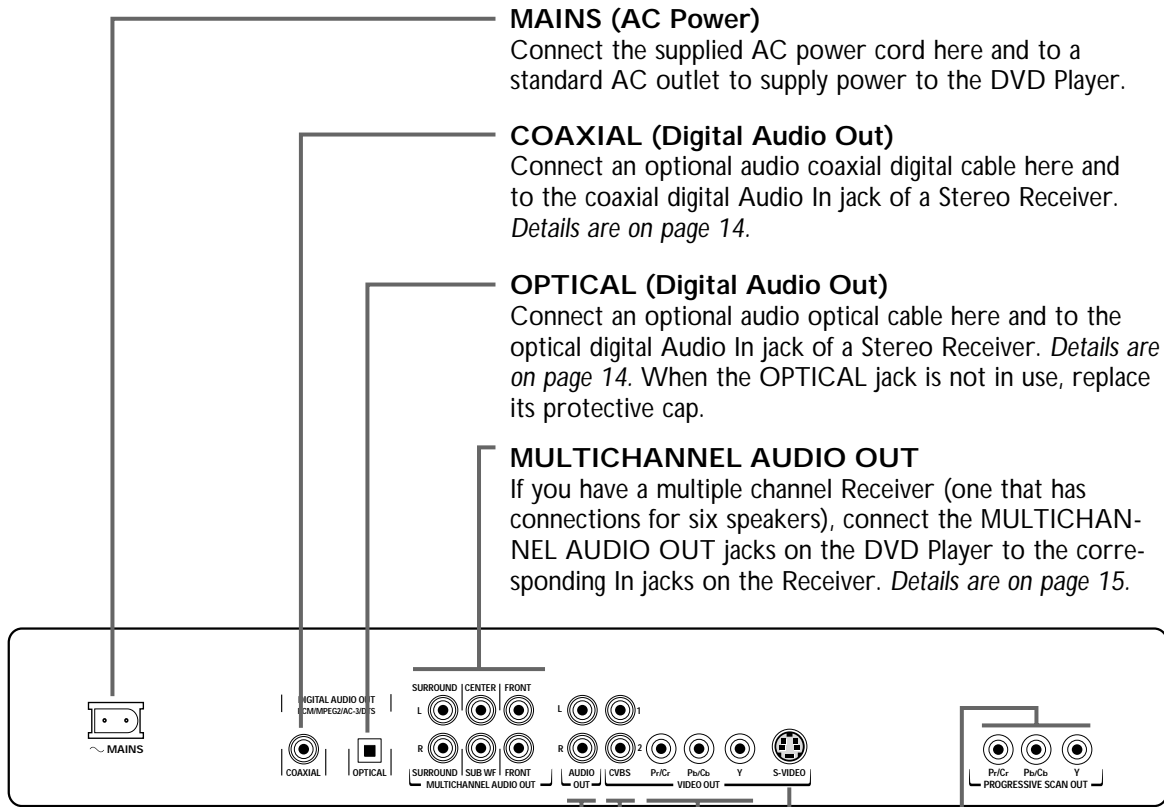
To go directly to any Track/Chapter during playback, press the Number buttons to enter the Track/Chapter number. If you enter an invalid number, an "X" may appear in the top left corner of the TV screen. The current Track or Chapter will continue to play. Or, an incorrect Track/Chapter may begin to play. Make sure the Track/Chapter number you enter is available on the Disc.



## 20 Front Panel



# Rear Panel 21



## MAINS (AC Power)

Connect the supplied AC power cord here and to a standard AC outlet to supply power to the DVD Player.

## COAXIAL (Digital Audio Out)

Connect an optional audio coaxial digital cable here and to the coaxial digital Audio In jack of a Stereo Receiver. *Details are on page 14.*

## OPTICAL (Digital Audio Out)

Connect an optional audio optical cable here and to the optical digital Audio In jack of a Stereo Receiver. *Details are on page 14.* When the OPTICAL jack is not in use, replace its protective cap.

## MULTICHANNEL AUDIO OUT

If you have a multiple channel Receiver (one that has connections for six speakers), connect the MULTICHANNEL AUDIO OUT jacks on the DVD Player to the corresponding In jacks on the Receiver. *Details are on page 15.*

## AUDIO OUT (Left/Right)

Connect the supplied red and white audio cables here and to the Audio In jacks of a television or Stereo Receiver. *Details are on pages 10-13.*

## CVBS (Video Out)

Connect the yellow video cable (supplied) here and to the TV's Video In jack. *Details are on page 12.*

## Pr/Cr Pb/Cb Y VIDEO OUT

Connect an optional component video cable here and to the component Video In jacks of a TV. *Details are on page 10.*

## S-VIDEO Out

Connect the supplied black S-Video cable here and to the S-Video In jack of a television. *Details are on page 11.*


## Pr/Cr Pb/Cb Y PROGRESSIVE SCAN OUT

If your TV has Progressive Scan and Pr/Cr Pb/Cb Y Progressive Scan In jacks, connect the PROGRESSIVE SCAN Out jacks on the DVD Player to the Progressive Scan In jacks on the TV. If your TV does not have Progressive Scan, use the Pr/Cr Pb/Cb Y VIDEO OUT jacks instead for a component video connection to your TV. *Details are on page 10.*

### Caution

- Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may damage the unit permanently.

## 22 Remote Control Buttons

**POWER  Button**  
Press to turn on the DVD Player power if the Player is in Standby mode. Or, press to put the DVD Player in Standby mode. *Details are on page 17.*

**Number Buttons**  
Press to select numbered items in a menu. *Details are on page 17.*  
Press during playback to directly select a Chapter or Track for playback. *Details are on page 19.*

**RETURN Button**  
Press to go back to a previous menu.

**DISC MENU Button**  
Press to access a DVD's Title or Disc menu. *Details are on page 18.*

**▼ ▲ ◀ ▶ Buttons**  
Press to select an item in a menu. *Details are on pages 18 and 24.*  
Press ◀ and ▶ for reverse or forward searching during DVD playback. Press ▼ to start slow motion DVD playback. Press ▲ to pause DVD playback.

**STOP ■ Button**  
Press to stop Disc playback.


**PLAY ▶ Button**  
Press to begin or resume Disc playback. *Details are on page 17.*

**REPEAT Button**  
Press repeatedly to play a Chapter, Title, Track, or entire Disc repeatedly. *Details are on page 42.*



**REPEAT A-B Button**  
Press to set up Repeat A-B playback, in which a certain segment of the Track or Chapter plays repeatedly. *Details are on page 42.*

**SHUFFLE Button**  
Press to play the Tracks on an Audio CD in random order. Or, play the Chapters of a DVD Title in random order. *Details are on page 27.*

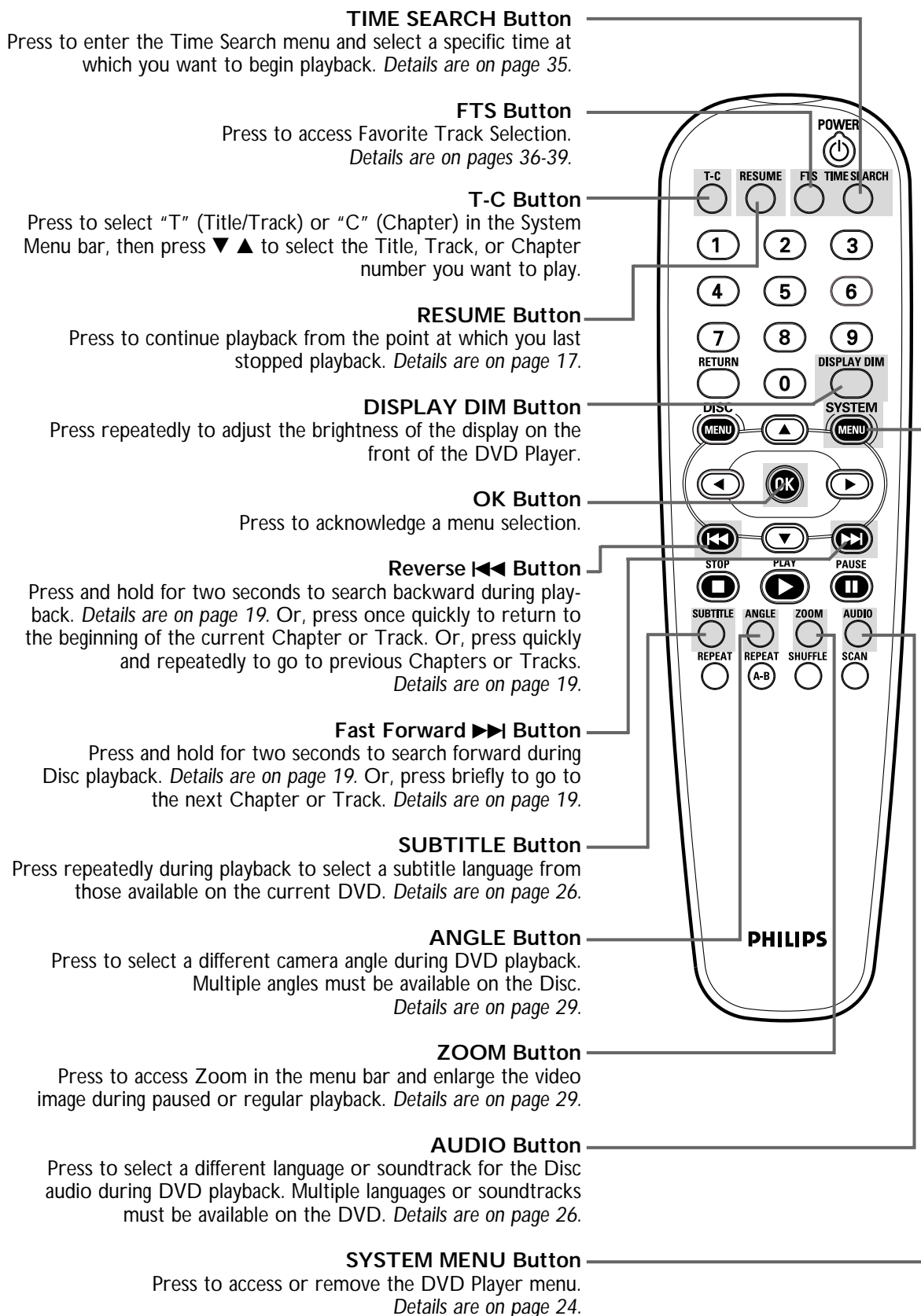
**SCAN Button**  
Press to play the first 10 seconds of each Track or Chapter on a Disc. *Details are on page 27.*

**PAUSE  Button**  
Press once to pause playback. Press repeatedly to advance a paused DVD picture one frame at a time (frame-by-frame playback). *Details are on page 28.*

### Helpful Hint

- The remote control may beep when you press a button. To turn the beeper on or off: Press SYSTEM MENU.  will be selected; press ▼ repeatedly to select , then press ▶. Press ▼ repeatedly to select Beeper, then press ▶. Press ▲ or ▼ to choose On or Off. Press SYSTEM MENU to remove the menus.

## Remote Control Buttons (cont'd) 23



## 24 Menu Bars

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In addition to using the shortcut buttons on the remote control to select features, you can also use the Menu Bars to operate features.

Press SYSTEM MENU repeatedly to select Menu Bar 1, Menu Bar 2, or Menu Bar 3. Press SYSTEM MENU again to remove all the Menu Bars from the TV screen.

When a Menu Bar is on the screen, press the ▼ ▲ ◀ ▶ buttons to select an item. The ▼ ▲ ◀ ▶ symbols in the Menu Bar mean more items are available. Press ▼ ▲ ◀ ▶ on the remote control to select these items or to change the setting of an item.

### Menu Bar 1



**User Preference Settings** Set your preferences for audio and video quality, depending on the equipment you connected to the DVD Player. Also set up Languages, Access Control, Playback Control, and other DVD Player features.



**Subtitle Language** If the current Disc has subtitles in multiple languages, select a language here. *Details are on page 26.*



**Audio Language** If the current Disc has multiple audio soundtracks, choose one here. For example, some Discs let you play the movie in Spanish, or hear a director's commentary during playback. Check the Disc case for details. *Details are on page 26.*



**Smart Picture** Choose a color setting that you prefer. *Details are on page 45.*



**Sound Mode** Select to choose a sound mode: Stereo (st), Dolby Surround compatible (sur), 3D Sound (3d), or Multi-channel (6ch). *Details are on page 48.*

### Menu Bar 2



**Frame-by-frame playback** Select for forward or reverse frame-by-frame playback of a DVD. Press ▼, then press ◀ or ▶ to move the picture backward or forward one frame at a time.



**Slow motion** Select to slow the speed of DVD playback. *Details are on page 28.*



**Fast motion** Select to play a DVD forward or backward at four, eight, or 32 times the normal playback speed. Press ▼, then press ◀ or ▶ to choose a backward (-) or forward speed.



**Angle** Select to choose a different camera angle, if available, during DVD playback. *Details are on page 29.*



**Zoom** Select to enlarge the DVD picture by 1.33, 2, or 4 times the normal size. *Details are on page 29.*

### Menu Bar 3



**Title** Select to choose an available Title for playback. Use the Number buttons or the ▲ ▼ buttons to select the Title you want.



**Chapter** Select to choose an available Chapter for playback. Use the Number buttons or the ▲ ▼ buttons to select the Chapter you want.



**Time Search** Select to enter a specific time at which you want playback to begin. *Details are on page 35.*



**Favorite Track Selection (FTS)** Select to enter the Favorite Track Selection menu and set up an FTS program. *Details are on pages 36-39.*



**Wake-up Timer** Select to enter the Wake-up Timer menu and choose an amount of time in which you want the DVD Player to turn on automatically. *Details are on page 50.*



# On-screen Symbols 25

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DVD

## On-screen Symbols

The following symbols appear on the TV screen when you activate a DVD feature.



**Scan** The first 10 seconds of each Chapter will play. *Details are on page 27.*



**Repeat All** The entire Disc will play repeatedly. *Details are on page 42.*



**Repeat Title** The current Title will play repeatedly. *Details are on page 42.*



**Repeat Chapter** The current Chapter will play repeatedly. *Details are on page 42.*



**Shuffle** The Chapters will play in random order. *Details are on page 27.*



**Shuffle Repeat** The Chapters will play repeatedly in random order.



**Repeat A** Point A for Repeat A-B playback has been entered. *Details are on page 42.*



**Repeat A-B** A segment of the Disc will play repeatedly. *Details are on page 42.*



**Angle** Multiple angles are available. *Details are on page 29.*



**Locked** The current Disc is Locked and cannot play. *Details are on pages 30-34.*



**Safe** The current Disc is authorized for playback. *Details are on pages 30-34.*



**Resume** Press the PLAY ► button while Resume appears. Play will resume at the point at which it last stopped.



**"X"** The feature you just attempted is not available on the current Disc or at the current time.

## 26 Audio and Subtitle Languages

DVD

### Audio Language

Some DVDs are recorded in different languages. You may be able to watch the same movie in French, Spanish, etc. The movie may have special audio features, such as a director's commentary or music soundtrack. If these are available on the DVD, access the different languages or featured soundtracks by following these steps.

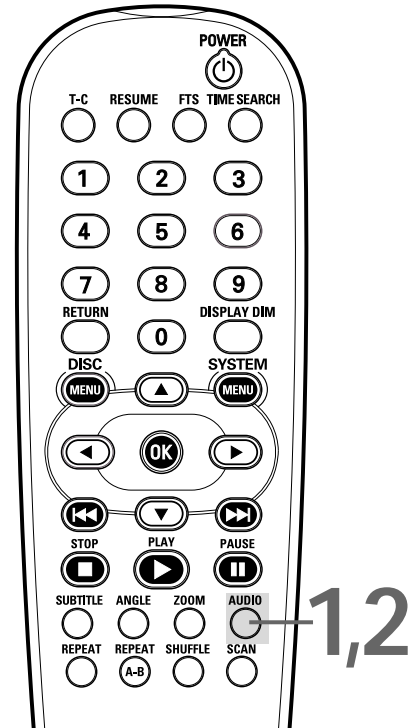
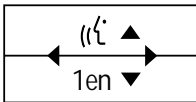
1

During DVD playback, press the AUDIO button.

⏮ Audio will be selected in the menu bar.

2

Within five seconds, press the AUDIO button repeatedly to see the different languages available. Or, press ▲ or ▼ repeatedly to see the different languages. The language you select will be audible in a few seconds. The menu bar will disappear automatically in a few seconds.



DVD

### Subtitles

Some DVDs include subtitles in different languages. To choose subtitles, follow these steps.

1

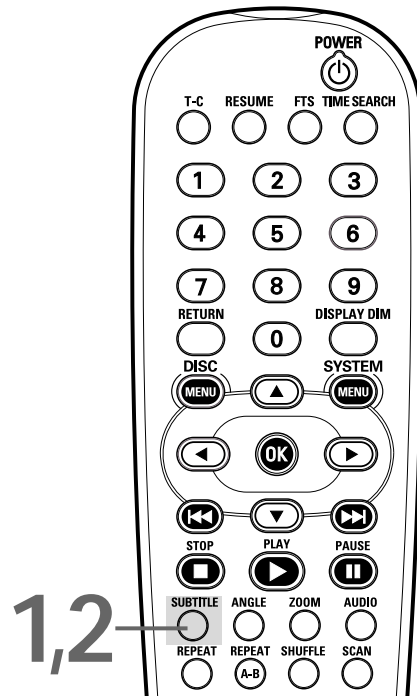
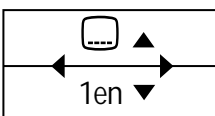
During DVD playback, press the SUBTITLE button.

⏮ Subtitle will be selected in the menu bar.

2

Within five seconds, press the SUBTITLE button repeatedly to see the different subtitle languages. Or, press ▲ or ▼ to see the different subtitle languages. Subtitles will appear after a few seconds. The menu bar will disappear automatically in a few seconds.

You can choose subtitles only if they are available on the DVD.



## Scan, Shuffle 27

DVD

AUDIO CD

VIDEO CD

### Scan

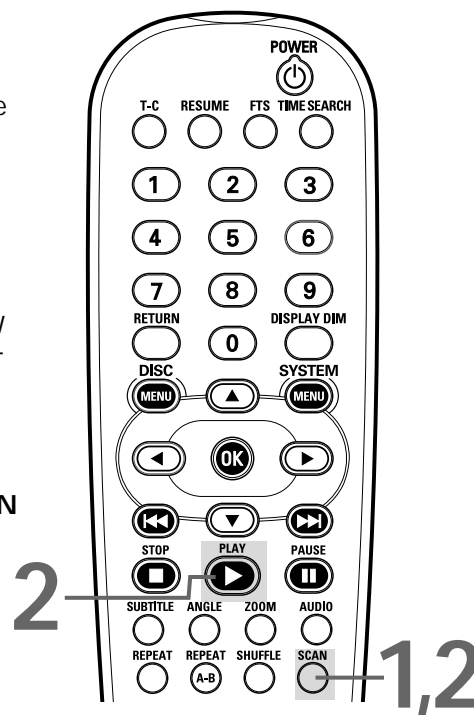
Scanning plays the first 10 seconds of each Chapter/Track on the Disc.

1

Press the **SCAN** button during playback. Starting at the beginning of the current Chapter/Track, the first 10 seconds of each Chapter/Track will play. The scan symbol will appear briefly on the TV screen during DVD playback. During Audio CD playback, Scan will appear on the TV screen.

2

To continue playback from a Chapter/Track, press **SCAN** again or press **PLAY** ►.



DVD

AUDIO CD

VIDEO CD

### Shuffle

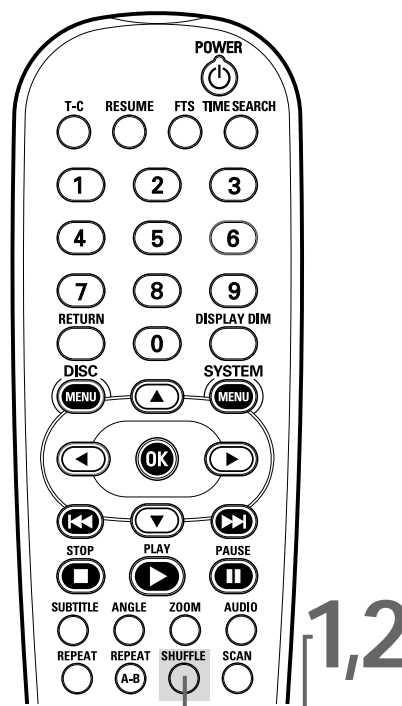
On a DVD, this shuffles the playing order of Chapters within a Title, if the Title includes more than one Chapter. On an Audio CD, activating Shuffle will play all the Tracks in random order.

1

Press the **SHUFFLE** button. Shuffle will appear on the TV screen during Audio CD playback. Or, the shuffle symbol will appear on the TV screen briefly during DVD playback. The Tracks or Chapters will begin playing in random order.

2

To return to normal order playback, press the **SHUFFLE** button again. Regular playback will resume from the current Track/Chapter.



#### Helpful Hint

- Set **FTS** to Off to ensure Scan and Shuffle operate as described above. Details are on pages 36-39.

## 28 Still Picture/Frame-by-Frame Playback, Slow Motion

DVD

### Still Picture/Frame-by-frame Playback

1

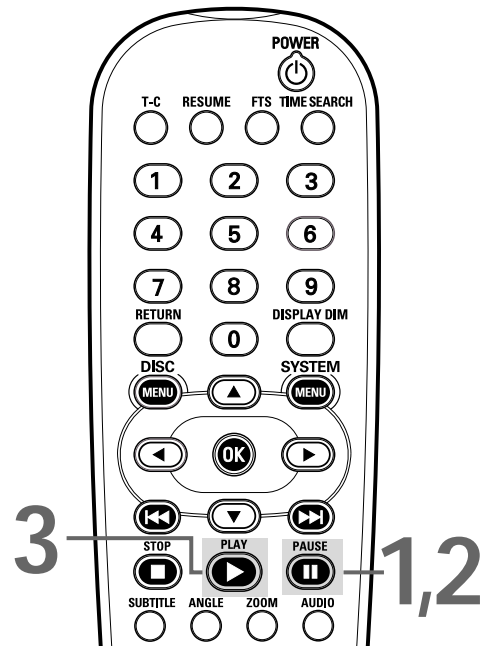
During playback, press **PAUSE** **||** on the remote control. A still picture will appear on the TV screen.

2

To advance the still picture one frame at a time, press **PAUSE** **||** repeatedly.

3

To resume normal playback, press **PLAY** **▶**.



DVD

### Slow Motion

1

During Disc playback, press the **SYSTEM MENU** button to access the menu bar.

2

Press **▶** repeatedly to select **▶** (Slow motion) in the menu bar.

3

Press **▼** to enter the Slow motion menu. Playback will pause.

4

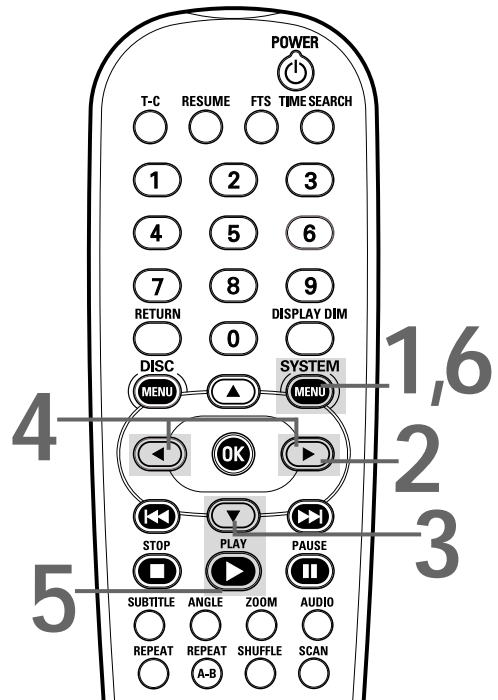
Press **◀▶** to select the required speed: -1, -1/2, -1/4 or -1/8 (backward), or 1/8, 1/4, 1/2 or 1 (forward). Select 1 to play the Disc at normal speed again. Select 0 or press **PAUSE** **||** on the remote control to pause the picture.

5

To return to normal playback, press **PLAY** **▶**.

6

Press **SYSTEM MENU** to remove the menu bar.



#### Helpful Hints

- You can start forward slow motion playback simply by pressing the **▼** button during DVD playback.
- You can pause the picture by pressing the **▲** button during DVD playback.

## Zoom, Angles 29


DVD

VIDEO CD

### Zoom

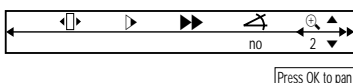
Zooming lets you enlarge the video image during DVD playback and pan through the enlarged image.

1

Press **ZOOM** during DVD playback.  Zoom will be selected in the menu bar.

2

Within five seconds, press **▲** or **▼** to choose 1.33, 2 or 4. Playback will pause, and the still picture will appear at 1.33, 2, or 4 times the normal size.



3

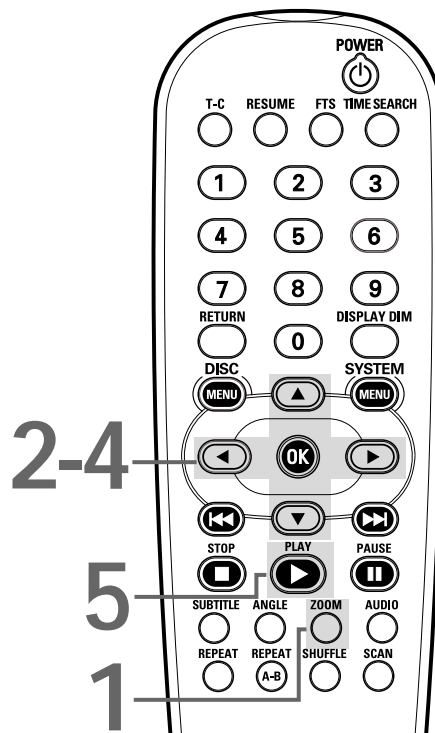
To move the enlarged picture around on the TV screen, or "pan," press the **OK** button. Then, press the **▼▲◀▶** buttons to move the picture across the screen.

4

Press **OK** again to see only the still, zoomed picture. The menu bar will disappear. The still, zoomed picture will dim if left on the TV screen for more than five minutes. This prevents damage to your TV.

5

To remove the zoomed image and return to regular playback, press the **PLAY ▶** button. Press **SYSTEM MENU** to remove the menu bar.



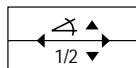
DVD

### Camera Angle

Some DVDs include scenes recorded from different angles. To watch segments from a different angle, follow these steps.

1

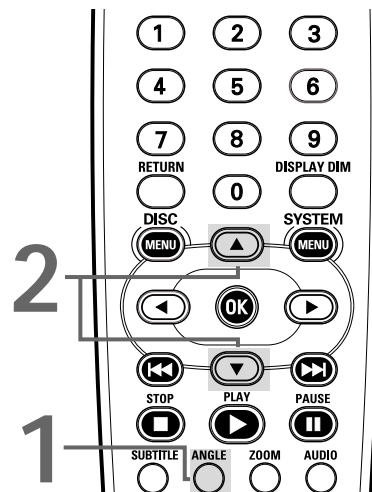
During DVD playback, press the **ANGLE** button. Angle will be selected in the menu bar.



2

Within five seconds, press **▲** or **▼** to select a different angle. In a few seconds, playback changes to the selected angle.

- Or, if the Angle symbol appears in the top left corner of the TV screen during playback, multiple angles are available. Simply press **▲** or **▼** to switch among the different angles.



# 30 Access Control

DVD VIDEO CD


Access Control limits viewing of Discs that exceed the limits you set. This feature will not limit viewing if the Disc manufacturer did not code the Disc. Philips cannot guarantee the availability of Access Control with all Discs, and therefore denies any liability associated with unintended watching of Discs. Make sure your Discs play according to your Access Control settings before you allow children access to the DVD Player.

## Setting or Changing the 4-digit Code

1

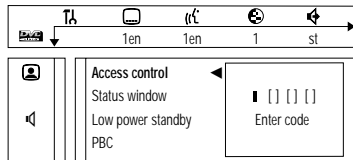
Press the **SYSTEM MENU** button.  will be selected.

2

Press the **▼** button repeatedly to select , then press the **▶** button. Access control will be selected.

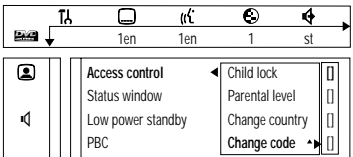
3

Press the **▶** button again, then press the **Number** buttons to enter your old four-digit code. When doing this the first time, enter any four numbers you prefer. You will have to enter the same code, exactly, twice. This will set your code for the first time.



4

Press the **▼** button repeatedly to select **Change code**. Then, press the **▶** button.

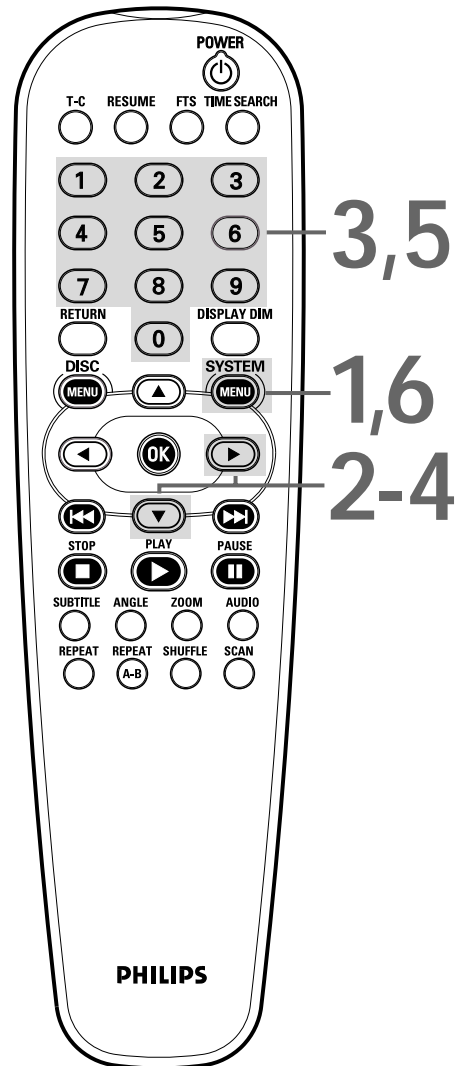


5

Press four **Number** buttons to enter the new four-digit code. Then, enter it again - exactly - to confirm it.

6

Press the **SYSTEM MENU** button to remove the menu.



## Access Control (cont'd) 31

### Activating/Deactivating Child Lock in Access Control

1

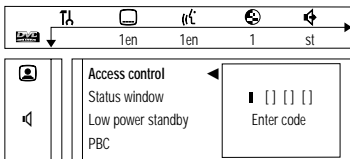
Press **SYSTEM MENU**, and **T** will be selected.

2

Press the **▼** button repeatedly to select **Access control**, then press the **▶** button. Access control will be highlighted.

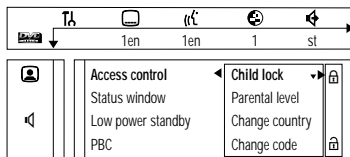
3

Press the **▶** button again, then press the Number buttons to enter your four-digit code. Details are on page 30.





4

Child lock will be highlighted. Press the **▶** button.

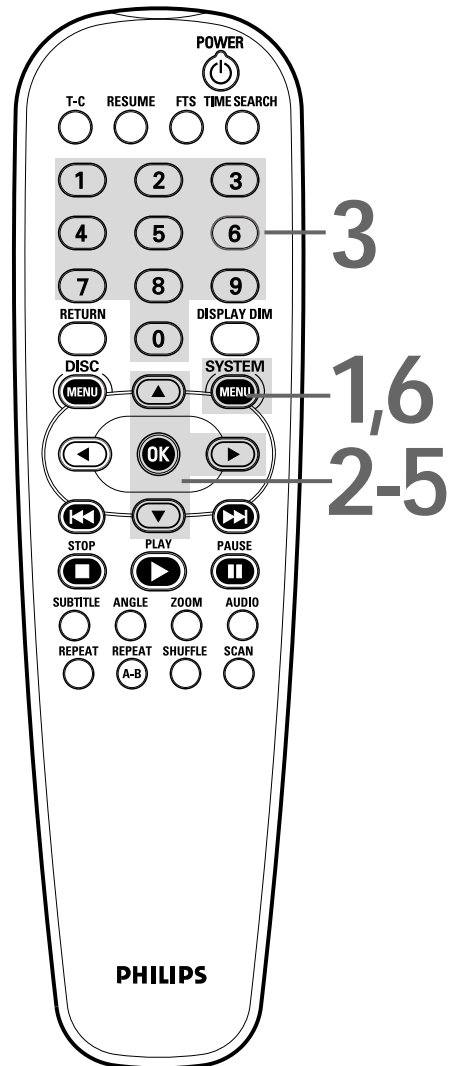


5

Press the **▲** or **▼** button to select **Locked**  or **Unlocked** . Press the **OK** button. If you chose Locked, unauthorized or Locked discs will not play unless you enter your four-digit code.

6

Press **SYSTEM MENU** to remove the menus.




## 32 Access Control (cont'd)

### Locking or Unlocking Specific Discs

Not all DVDs are rated or coded by Parental levels. You may choose to specifically lock or unlock a Disc by choosing Play once or Play always. This way, you can disable viewing regardless of the rating of the DVD. You will need to know your 4-digit code in order to view the Disc.

The DVD Player can memorize Lock/Unlock settings for 120 Discs. A Disc is memorized, or unlocked, when you select Play Always. Playing an unlocked Disc will place it at the top of the list. When the list is full and a new Disc is added, the last Disc in the list will be removed from the list.


# 1

**Insert a Disc.** The Access Control message will appear on the TV screen, and  will appear in the DVD Player's display.






# 2

**Press the ▲ or ▼ button to select Play once or Play always. Then, press the Number buttons to enter your four-digit code.**

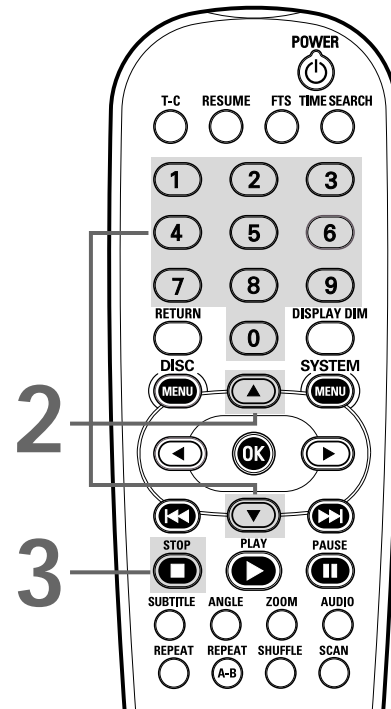
- If you select Play Once, the Disc can play as long as it is in the DVD Player and the DVD Player power is On.
- If you select Play Always, the Disc will play always, even if you set Child Lock to  (Locked). Details are on page 31.

# 3

**If you later decide to lock the Disc so that it will not play always:**

When you insert the Disc, playback begins automatically and safe  appears on the TV screen. **Press the STOP ■ button while safe  is on the TV screen.** Locked  will appear. If the Disc continues playing, press the STOP ■ button again to stop playback. You may need to turn off the DVD Player or remove the disc before the Disc is completely Locked. The next time you turn on the DVD Player, the Disc will not play unless you enter the four-digit code.

# 1

 Insert a Disc.

### Helpful Hints

- The Access Control screen will appear when you try to play a Locked Disc. If you do not know your code, press STOP ■. Then, select Access Control as described in steps 1-3 on page 30. When you are asked to enter the code, press STOP ■ four times. Press SYSTEM MENU, then press PLAY ► to start playback. This restores all the Access Control settings to their original factory settings.
- Two-sided DVDs may have a different ID for each side. To unlock the entire Disc, unlock each side.
- Multi-volume Video CDs may have a different ID for each volume. To unlock the complete set, unlock each volume.




## Setting Parental Levels

DVDs may contain alternative scenes that conform to the Parental Level, or movie rating, that you select. The Parental Level may apply to the complete Disc or to certain scenes on the Disc. These scenes are rated from 1 to 8. Follow the steps below to set the Parental Level at which you want Discs to play.

### 1

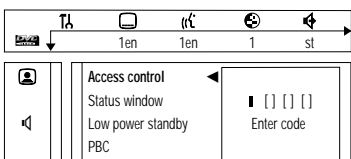
Press **SYSTEM MENU**.  will be highlighted.

### 2

Press the **▼** button repeatedly to select , then press the **▶** button. Access control will be highlighted.

### 3

Press the **▶** button again, then press the Number buttons to enter your four-digit code.



### 4

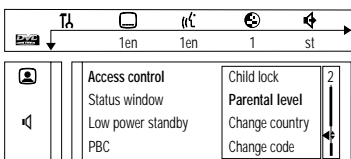
Press the **▼** button to select Parental level, then press the **▶** button.

### 5

Press the **▲** or **▼** buttons or the Number buttons (0-8) to select a rating, then press the **OK** button.

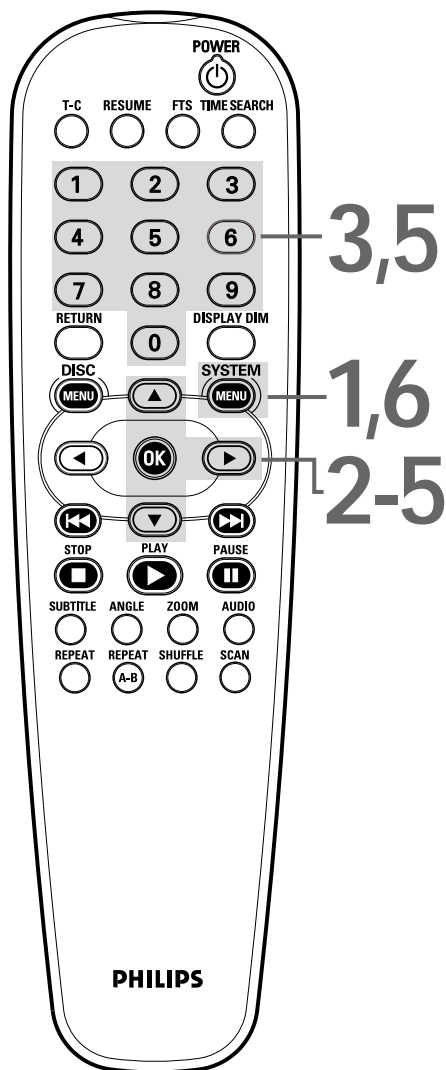
Select "0" (–) to deactivate Parental level. The entire Disc will play.

Choose a rating between 1-8, and scenes with the same rating or lower will play. Higher rated scenes will not play unless an alternative scene is available on the Disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop. Enter the 4-digit code to play the Disc.



### 6

Press **SYSTEM MENU** to remove the menus.



### Helpful Hint

- The rating numbers compare to standard U.S. movie ratings as follows:
  - 7 - NC-17
  - 6 - R
  - 4 - PG-13
  - 3 - PG
  - 1 - G

## 34 Access Control (cont'd)

### Changing the Country


If a Disc has Parental Level coding, the codings are applicable only for the country specified on the Disc. The Disc manufacturer sets these codings. For example, a Disc may be coded at Level 3 for the United States.

So, for some Discs, you may need to choose the Country for which the Disc is coded in order for the Disc to play at the Parental Level you select. *Parental Level details are on page 33.*

1

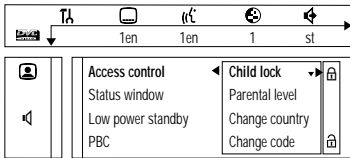
Press **SYSTEM MENU** .  will be selected.

2

Press the **▼** button repeatedly to select , then press the **▶** button. Access control will be highlighted.

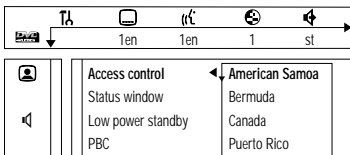
3

Press the **▶** button again, then press the Number buttons to enter your four-digit code. Child lock will be highlighted.



4

Press the **▼** button repeatedly to select **Change country**. Then, press the **▶** button.

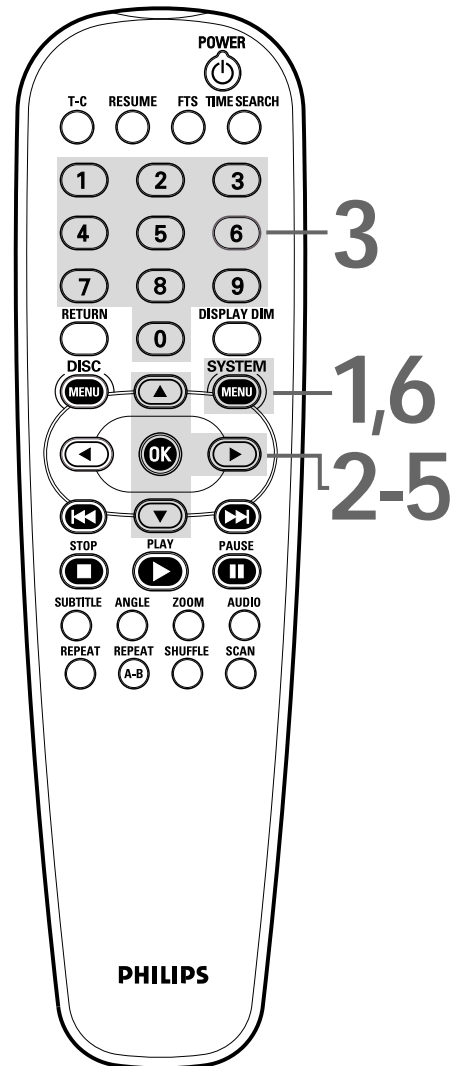


5

Press the **▲** or **▼** button to select the country for which the Disc is coded, then press the **OK** button.

6

Press **SYSTEM MENU** to remove the menus.



## Time Search 35

DVD

VIDEO CD

Time Search lets you choose a specific time at which you want to begin Disc playback.

1

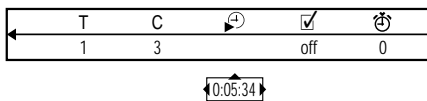
Press the **SYSTEM MENU** button.

2

Press the **▶** button repeatedly to select **▶** Time Search.

3

Press the **▼** button. Playback will pause; a time edit box will appear, showing the elapsed playing time of the current Disc, or the point at which the Disc is currently.



4

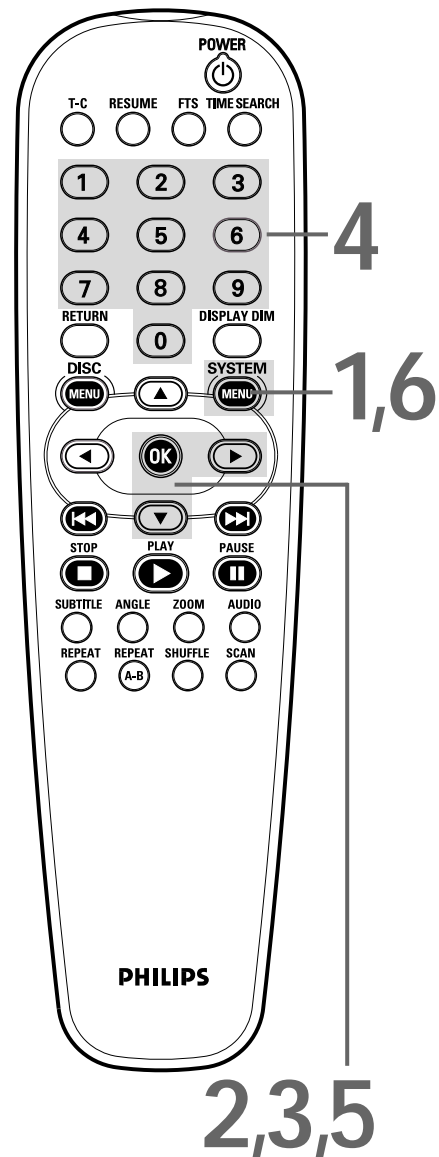
Press the **Number** buttons to enter the time at which you want playback to begin. Enter the hour, minute and second from left to right in the box.

5

Press **OK**. After a few seconds, playback will resume at the point you selected.

6

Press the **SYSTEM MENU** button to remove the menu.



## 36 Video FTS

DVD

VIDEO CD

Favorite Track Selection (FTS) lets you play your favorite Titles/Chapters or Tracks/Indexes in the order you select. An FTS Program can contain 20 items (titles, chapters, etc.).

### Setting up a Program

# 1

While playback is stopped, press **SYSTEM MENU**.

# 2

Press the **▶** button repeatedly to select  Favorite Track Selection in the menu bar. Press the **▼** button. FTS will be selected.

# 3

Press the **▼** button to select Title, then press the **▶** and **◀** buttons to select a Title number you want. If you want to put the entire Title in the Program, press the **OK** button. The Title number will show in the Program.

T	C		<input checked="" type="checkbox"/>	
1	3		off	0
Favorite Track Selection				
FTS	On Off			
Title	1▶	2	3	4 5 6 7 8 >
Chapter	1	2 3	4 5 6 7 8	>
Program	[ ]			
	Clear all			

# 4

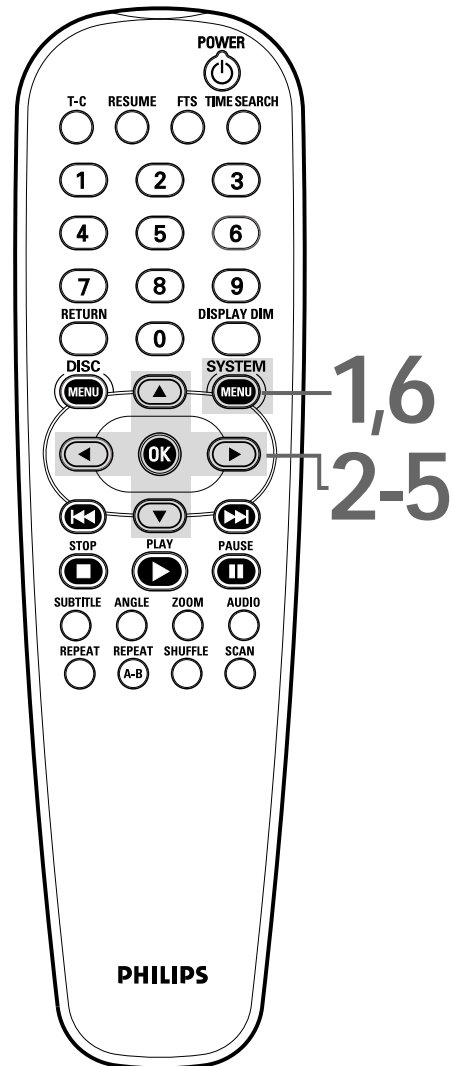
If you want to play only a certain Chapter within a Title, press the **▼** button to select Chapter. Press the **▶** and **◀** buttons to select a Chapter number, then press the **OK** button. The Title and Chapter number will show in the Program. Continue steps 3-4 until you enter all the Chapters or Titles you want.

# 5

Press the **▲** button to select FTS, then press **▶** or **◀** to choose On or Off. Then press the **OK** button. If you choose On, press the **PLAY ▶** button to play the Program. Playback will stop when the last item in the Program plays.

# 6

Press **SYSTEM MENU** to remove the menu bar.



### Helpful Hint

- If FTS is On, the Program may play each time you start playing the disc. Erase the Program as described on page 37 to play the disc normally again.

## Erasing an entire Program

1

While playback is stopped, press SYSTEM MENU.

2

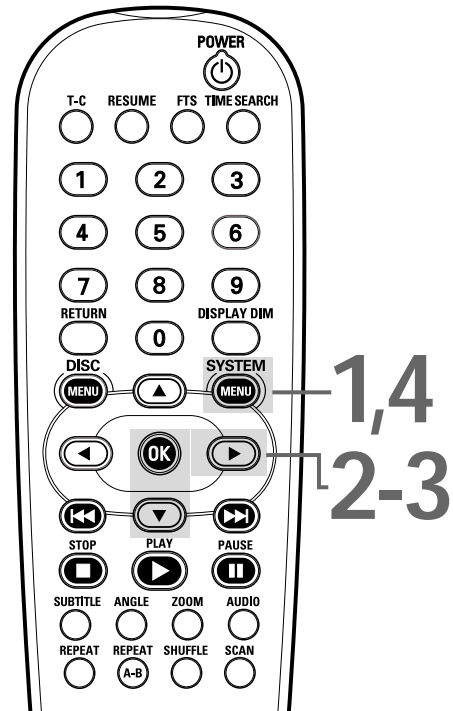
Press the ► button repeatedly to select  Favorite Track Selection in the menu bar.

3

Press the ▼ button repeatedly to select Clear all, then press the OK button. This will erase the Program and set FTS to Off automatically.

4

Press SYSTEM MENU to remove the menu.



## Erasing an Item in the Program

1

While playback is stopped, press SYSTEM MENU.

2

Press the ► button repeatedly to select  Favorite Track Selection in the menu bar. Then, press the ▼ button.

3

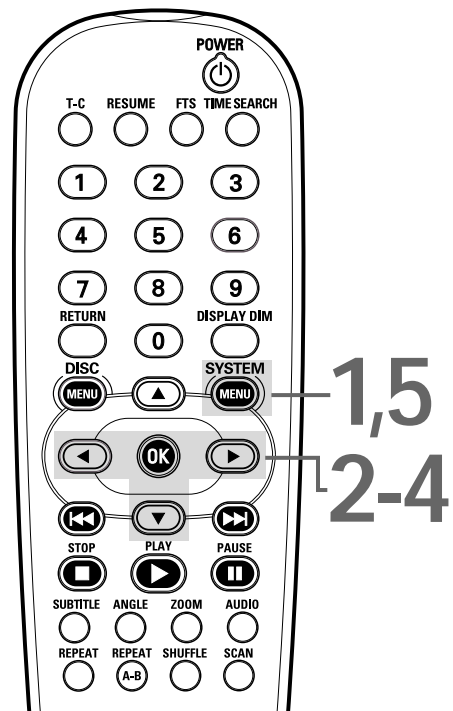
Press the ▼ button to select Program, then press the ► or ◀ button to select an item.

4

Press the OK button to erase the item.

5

Press SYSTEM MENU to remove the menus.



## 38 Audio CD FTS

### AUDIO CD

An Audio CD Favorite Track Selection (FTS) lets you play your favorite Tracks in the order you set. An FTS Program can contain 20 Tracks.

#### Setting up a Program

# 1

Load an Audio CD. Press the **STOP** ■ button to stop Disc playback if necessary.

Audio Disk Mode										
Stop	Track	Time	Total tracks	Total time						
■	--	----	14	5:29.78						
FTS	On	Off								
Track	1	2	3	4	5	6	7	8	>	
Program	Clear all									

# 2

Press the ▼ button to select Track.

# 3

Press the ► and ◀ buttons to select a Track number, then press the **OK** button. The selected Track will show in the Program.

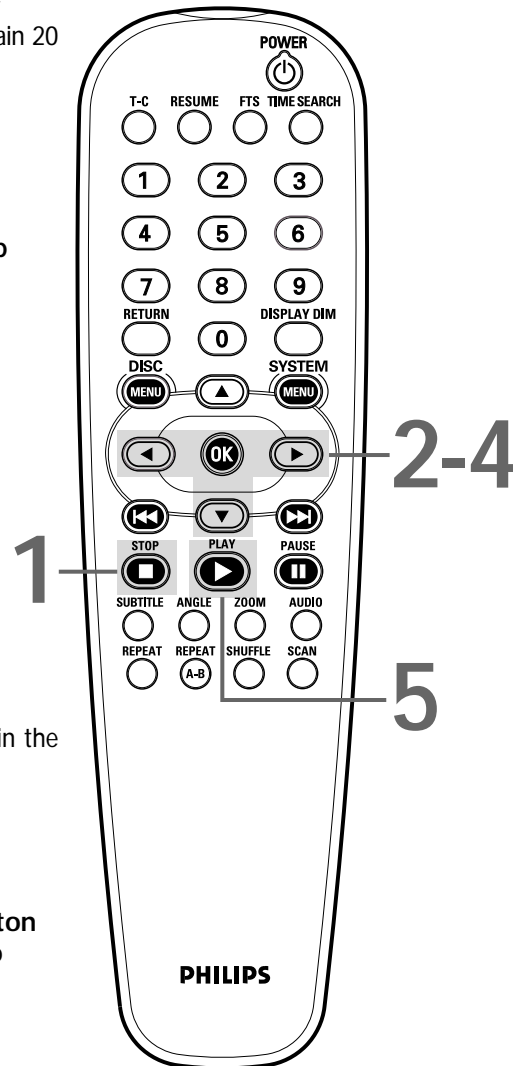
Repeat step 3 until you add all the Tracks you want.

# 4

To erase a Track from the Program, press the ▼ button to select Program, then press the ► and ◀ buttons to select a Track number, then press the **OK** button. The Track number will disappear from the Program.

# 5

To play the Program, press the **PLAY** ► button. FTS will be On automatically.



#### Helpful Hint

- You also can select Track numbers by pressing the Number buttons, then pressing the **OK** button, at step 3.
- If FTS is On, the Program may play each time you start playing the disc. Erase the Program or turn off FTS as described on page 39 to play the Disc normally again.

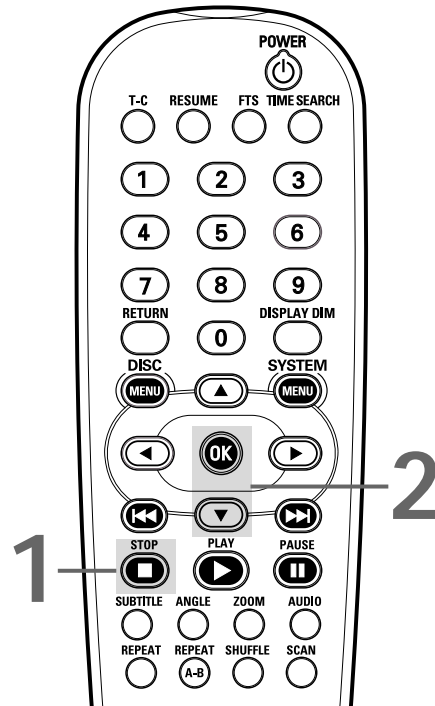
## Erasing a Program

1

Press the STOP ■ button to stop Disc playback if necessary.

2

Press the ▼ button repeatedly to select CLEAR ALL, then press the OK button. This erases the Program for the current Disc and sets FTS to Off.



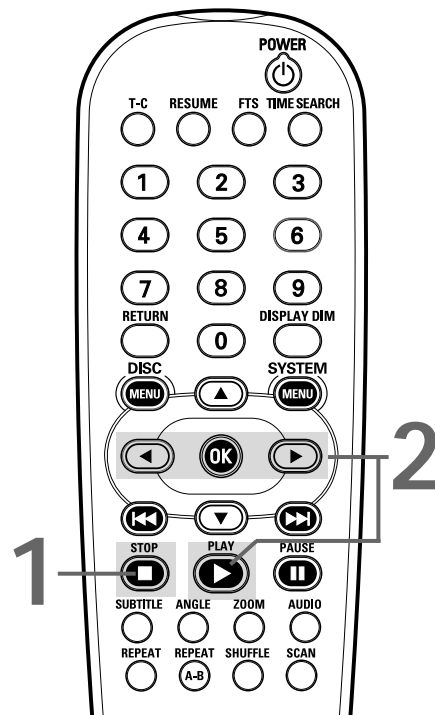
## Turning FTS On or Off

1

Press the STOP ■ button to stop Disc playback if necessary.

2

FTS will be selected. Press the ► or ◀ buttons to choose On or Off, then press the OK button. If you choose On, press the PLAY ► button to begin playing the Program. If you choose Off, the Tracks will play in normal order when you begin playback again.



## 40 MP3 Playback

MP3 is a compression technology. MP3 compresses large digital music files, making them up to 10 times smaller without losing significant sound quality. MP3 has become a standard audio compression format on the world wide web, allowing quick and easy transfer of audio or music files on the Internet. As a file storage solution, it allows you to store tracks on your computer's hard disk without using too much space. You can then transfer your Tracks from your computer onto a CD Recordable or CD Rewritable disc, then play that Disc on this DVD Player.

Tracks that are compressed or recorded with MP3 technology will have a computer file name that ends in .mp3.

You may either purchase MP3 recordings (digital) or record your own MP3 music (analog) using your personal computer. (You will need MP3 recording software. Materials and equipment with which to make MP3 recordings are not supplied with this DVD Player. Check with your retailer for details about MP3, or visit the Philips web site at [www.philips.com](http://www.philips.com).)

This chart compares the sound quality of MP3 recordings based on the speed, or bit rate, at which they were recorded. Keep these characteristics in mind when making Discs that you intend to play on the DVD Player.

Comparable Sound Quality	Bit Rate	Compression Ratio	Approximate playing time	Comments
AM radio	32 kbps	40 : 1	40 hrs	Slow Bit Rates let you compress more and use less space, but sound quality is significantly affected.
FM radio	64 kbps	20 : 1	20 hrs	
Near-CD	96 kbps	15 : 1	15 hrs	The Bit Rates and used space are acceptable. The sound quality is good.
CD-like	128 kbps	10 : 1	10 hrs	
CD	256 kbps	5 : 1	5 hrs	Fast Bit Rates provide quality recordings, but use a lot of disc space.
CD	320 kbps	3 : 1	3 hrs	

### This DVD Player supports the following characteristics of MP3 files:

- Names of Albums, Artists, etc., on an MP3 file with a maximum of 30 characters
- Maximum nested directory is eight levels.
- The maximum ALB number is 32.
- VBR bit-rate
- Sampling frequencies: 32 kHz, 44.1 kHz, 48 kHz
- Bit-rates: 32, 64, 96, 128, 192, 256 (kbps)

### The following characteristics are not supported:

- File names ending in .wma, .aac, .dlf, .m3u, and .pls
- Chinese file names
- Non-session closed discs
- Discs recorded in UDF format

### Additional notes for MP3 playback:

- If you are playing MP3 files that you recorded yourself, connect the DVD Player to your Stereo Receiver using the red and white AUDIO OUT jacks. *Details are on page 13.*
- It may take the DVD Player 10 seconds or more to read MP3 files when you first insert the Disc.
- The DVD Player only supports the first session of multisession discs.
- MP3 files may skip occasionally during playback. This is normal.



## MP3 Playback (cont'd) 41

### Playing an Album or Track

To view or select the next or previous Album or Track on an MP3 formatted disc, follow these steps.

# 1

When you insert an MP3-formatted disc, the first Track of the first Album will begin to play automatically.

MP3-audio mode			
Play	Album	Track	Time
▶	1	1	0.00.28
Total albums		Total tracks	
1		9	

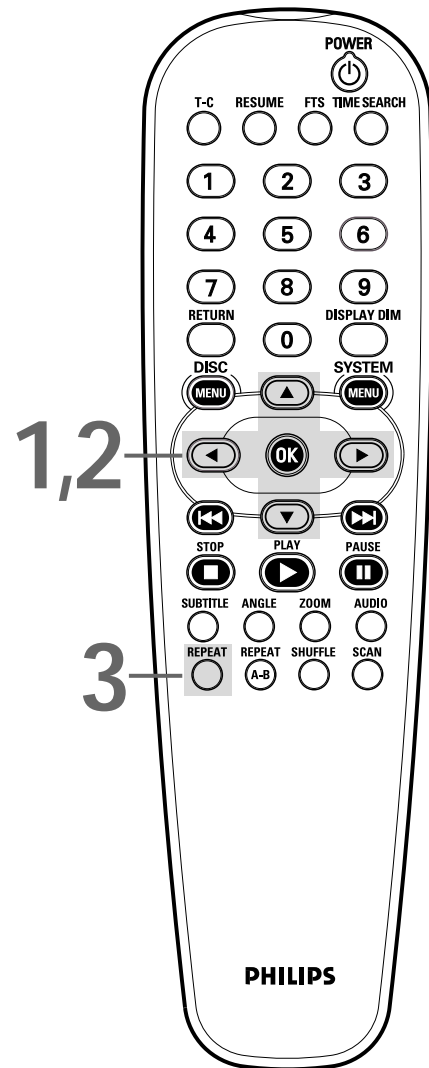
# 2

Press the ►► or ◀◀ buttons to scroll through the Tracks.

# 3

To play a Track, Album, or the entire Disc repeatedly, press the REPEAT button repeatedly during playback.

- Press the REPEAT button once to play a Track repeatedly, and repeat track will appear on the TV screen.
- Press the REPEAT button again to play an Album repeatedly, and repeat album will appear on the TV screen.
- Press the REPEAT button again to play an entire MP3 disc repeatedly, and repeat disc will appear on the TV screen.
- Press the REPEAT button again to cancel repeat playback and resume regular playback.



### Helpful Hints

- When playback is stopped, press the Number buttons to directly choose an Album for immediate playback. During playback, press the Number buttons to choose a Track for immediate playback.
- Only the following options are available for MP3 discs: Stop, Play, Pause, Skip Next/Previous, and Repeat Track/Album/Disc.

## 42 Repeat, Repeat A-B

DVD

AUDIO CD

VIDEO CD

### Repeat

You may play a Chapter, Track, Title or entire Disc repeatedly.

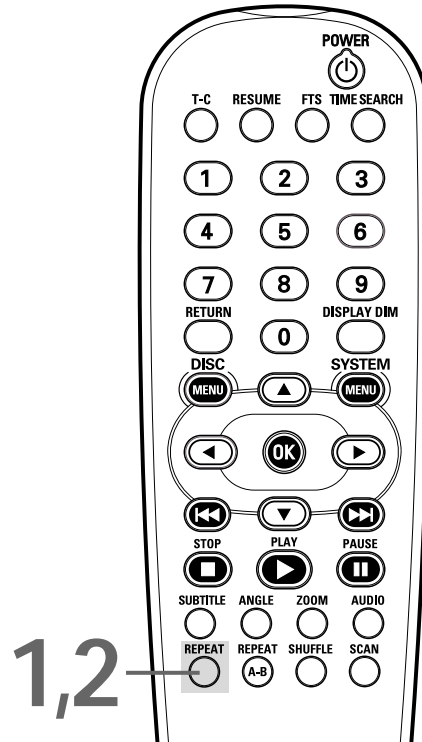
1

During Disc playback, press the REPEAT button repeatedly to choose a Repeat mode. During DVD playback, the repeat symbols will appear briefly on the TV screen. *Details are on page 25.*

- To repeat the current Chapter or Track, press the REPEAT button once.
- To repeat the current Title, press REPEAT again.
- To repeat the entire Disc, press REPEAT again.

2

To cancel repeat playback, press the REPEAT button again.



DVD

AUDIO CD

VIDEO CD

### Repeat A-B

You can also set the DVD Player to play only a specific portion of a Chapter or Track repeatedly. Follow these steps.

1

Press the PLAY ► button to start Disc playback.

2

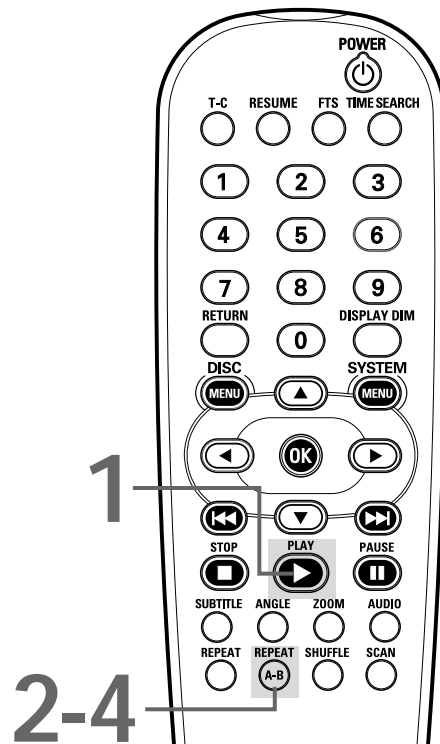
When the Disc reaches the point at which you want repeated playback to begin, press the REPEAT A-B button. A- or repeat A will appear briefly on the TV screen.

3

When the Disc reaches the point at which you want to end the segment, press the REPEAT A-B button again. The segment will begin playing repeatedly.

4

To resume regular playback, press the REPEAT A-B button again. Regular playback will resume.



1

Press SYSTEM MENU.  will be selected.

2

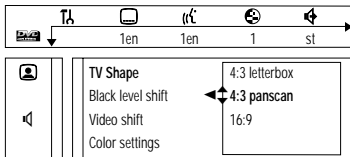
Press the ▼ button to select , then press the ► button.

3

TV Shape will be selected. Press the ► button.

4

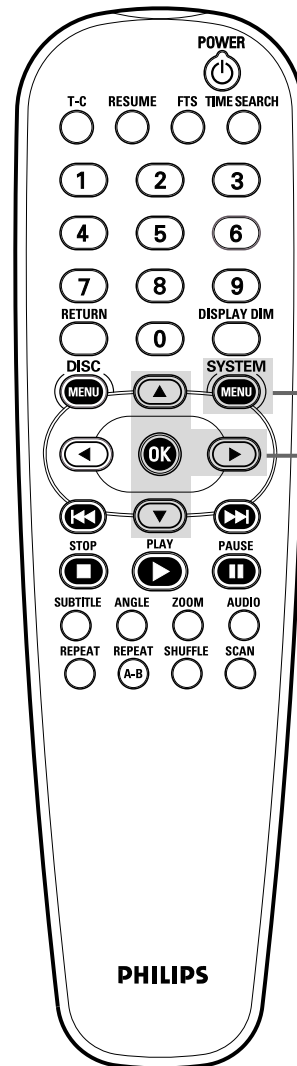
Press the ▲▼ buttons to select 4:3 letterbox, 4:3 panscan, or 16:9, then press the OK button.



- Select 16:9 if you have a widescreen TV.
- Select 4:3 letterbox if you have a regular TV and want to see the picture with black bars at the top and bottom of the screen. This looks like the picture you see when watching movies in a theater. This setting is possible only if the DVD contains letterbox material.
- Select 4:3 panscan if you have a regular TV and want both sides of the picture to be trimmed, or formatted to fit your TV screen. This setting is possible only if the DVD contains pan & scan material.

5

Press the SYSTEM MENU button to remove the menus.



1,5  
2-4

### Helpful Hint

- The format you selected must be available on the Disc. If it is not, the settings for TV Shape will not affect the picture during Disc playback.


## 44 Video Shift

The factory sets the DVD Player so the picture will be centered on your TV screen. Use this setting to personalize the position of the picture on your TV by moving it to the left or right.

1

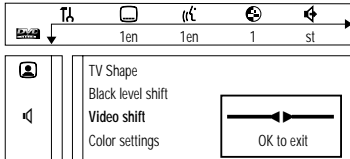
Press **SYSTEM MENU**.  will be selected.

2

Press **▼** to select , then press **▶**.

3

Press **▼** repeatedly to select **Video shift**, then press **▶**.



4

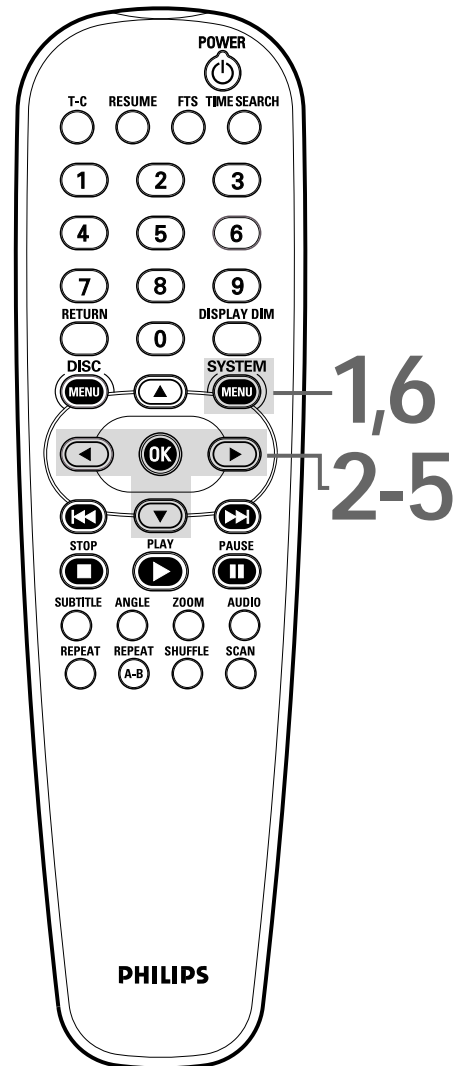
Press **◀** or **▶** to center the picture on your TV screen (or “shift” the “video”).

5

When you are satisfied with the adjustments, press **OK**.

6

Press **SYSTEM MENU** to remove the menus.



## Color Settings (Smart Picture) 45

You can select one of four predefined sets of color settings or define your own Personal color settings. This feature is a lot like adjusting Brightness, Contrast, etc., on your TV. However, these settings affect the picture the DVD Player sends to the TV.

# 1

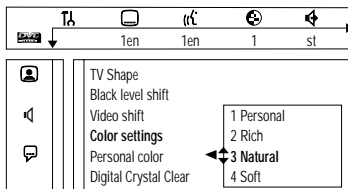
Press **SYSTEM MENU**.  will be selected.

# 2

Press **▼** to select , then press **►**.

# 3

Press **▼** repeatedly to select **Color settings**, then press **►**.



# 4

Press **▲** or **▼** to choose **Personal, Rich, Natural, Soft, or Animation**, then press the **OK** button. You may want to play a Disc for a few minutes in each setting to decide which you prefer.

# 5

If you selected **Personal**, go to step 6.  
If you selected **Rich, Natural, Soft, or Animation**, you are finished. Press **SYSTEM MENU** to remove the menus.

# 6

Press **▼** to select **Personal Color**, then press **►**.

# 7

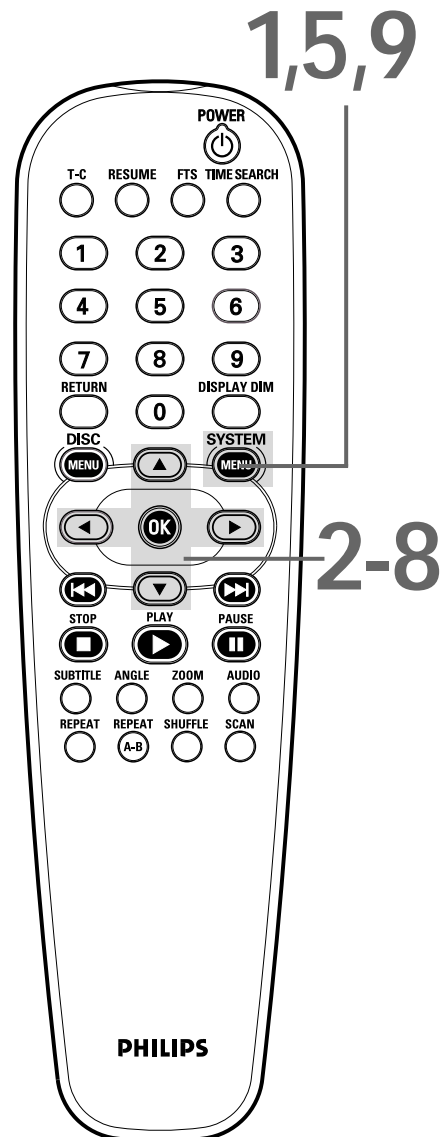
Press **▲▼** to select **Saturation, Brightness, or Contrast**. Then press **►**.

# 8


Press **▲▼** to **increase or decrease each setting**. Press **◀** to go back and select a different item (Saturation, Brightness, or Contrast). Repeat steps 7-8 as necessary for each item.

# 9

When you are finished, press **SYSTEM MENU** to remove the menus.



### Helpful Hint

- You also can select **Color Settings** in the menu bar. Press **SYSTEM MENU**, then press **►** repeatedly to choose . Press **▲** or **▼** to choose a color setting number. Press **SYSTEM MENU** to remove the menu bar.

## 46 Digital CrystalClear

Digital CrystalClear allows you to fine-tune certain settings for Progressive Scan. These adjustments are useful only if you used the PROGRESSIVE SCAN Out jacks on the back of the DVD Player to connect to a TV that has Progressive Scan. *Details are on page 10.*

1

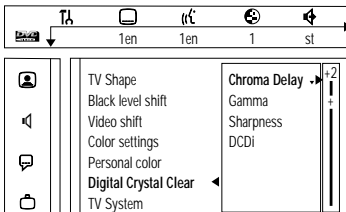
Press **SYSTEM MENU**.  will be selected.

2

Press **▼** to select , then press **▶**.

3

Press **▼** repeatedly to select Digital Crystal Clear, then press **▶**.



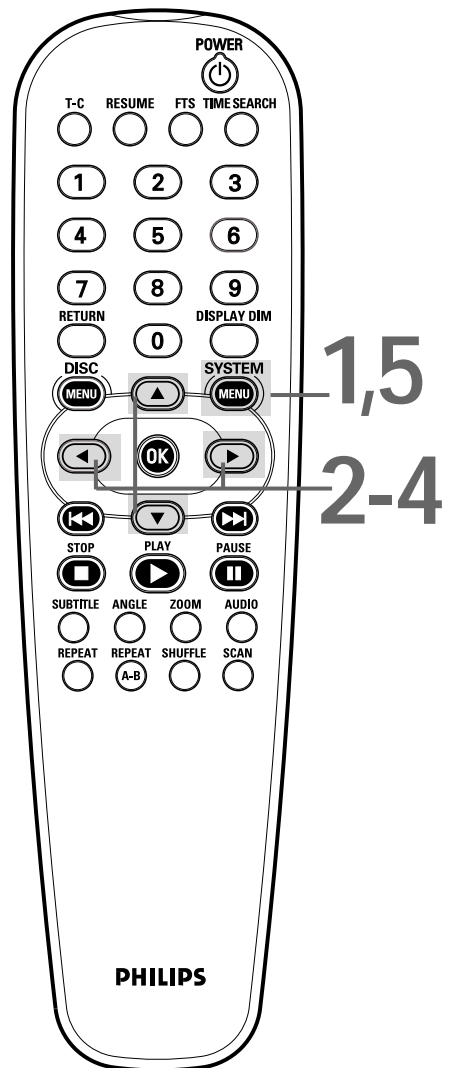
4

Press **▲** or **▼** to choose Chroma Delay, Gamma, Sharpness, or DCDi, then press **▶**. Press **▲** or **▼** to adjust the setting. Press **◀** to go back and select a different item.

- Chroma Delay - If the Chroma Color and Chroma Brightness signal do not synchronize, adjust the delay of the chroma signal to get a perfectly clear picture.
- Gamma - Adjust the intensity of the picture non-linearly. A positive value allows you to bring out low level detail in a dark scene. A negative value emphasizes contrast.
- Sharpness - Adjust the sharpness of the picture.
- DCDi - This setting computes and tracks the angle of the edge to fill in the missing pixels on the TV screen. Select "Y" (Yes) at DCDi to improve the image quality significantly, especially during slow motion playback. Or, select "N" (No) to disable the feature.

5

Press **SYSTEM MENU** to remove the menus.



## Digital Sound 47

After connecting the DVD Player to your TV and other equipment, you may need to change the DVD Player's Digital Output setting. Look to see which DVD Player audio jacks you connected to your other equipment, then set your Digital Output accordingly. The information in step 4 will help you make your choice. You only need to adjust the Digital Output if you used the COAXIAL or OPTICAL DIGITAL AUDIO OUT jacks of the DVD Player. (If you used the red and white AUDIO OUT jacks, see page 48 to adjust the sound.)

# 1

Press **SYSTEM MENU**.  $\uparrow$  will be selected.

# 2

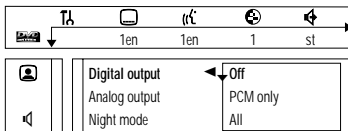
Press  $\blacktriangledown$  repeatedly to select  $\blacktriangleleft$ , then press  $\blacktriangleright$ .

# 3

Digital output will be selected. Press the  $\blacktriangleright$  button. If Digital output is not selected, press  $\blacktriangle$  or  $\blacktriangledown$  to select it.

# 4

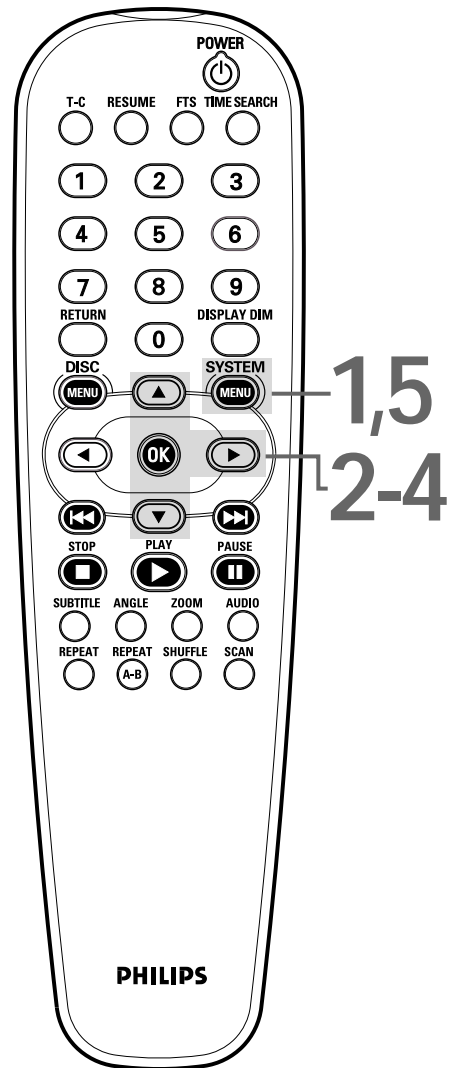
Press  $\blacktriangle$  or  $\blacktriangledown$  to select **Off**, **PCM only**, or **All**, then press the **OK** button.



- Select **All** if you used the COAXIAL DIGITAL AUDIO OUT jack to connect the DVD Player to a Stereo Receiver that has a built-in Multi-channel Decoder. *Details are on page 14.* All is the preset factory setting.
- Select **Off** if you did not use either the COAXIAL or OPTICAL DIGITAL AUDIO OUT jacks. For example, if you used the supplied red and white audio cables to connect the AUDIO OUT jacks of the DVD Player to a TV or Stereo, select **Off**.
- Select **PCM only** if you used the COAXIAL or OPTICAL DIGITAL AUDIO OUT jacks of the DVD Player for connections, but the audio equipment does not include a built-in digital multi-channel Decoder. To adjust the PCM Output, see the Helpful Hint below.

# 5

Press **SYSTEM MENU** to remove the menus.



### Helpful Hints

- To adjust the PCM Output, press **SYSTEM MENU**.  $\uparrow$  will be selected. Press  $\blacktriangledown$  repeatedly to select  $\blacktriangleleft$ , then press  $\blacktriangleright$ . Press  $\blacktriangledown$  repeatedly to select **PCM Output**, then press  $\blacktriangleright$ . Press  $\blacktriangle$  or  $\blacktriangledown$  to choose 48 KHz or 96 KHz. (Select 96 KHz if the Disc was recorded in PCM 96 KHz. Otherwise, select 48 KHz.) Press **OK**, then press **SYSTEM MENU** to remove the menus.
- If you set PCM Output to 96 KHz, the sound may be mute if the disc is copyright protected by the Content Scrambling System (CSS).

## 48 Analog Sound


If you connected the red and white AUDIO OUT jacks on the DVD Player to a Stereo Receiver, or if you connected to a 6-channel Receiver as shown on page 15, choose a setting for Analog Output. First, make sure you did not use the COAXIAL or OPTICAL DIGITAL AUDIO OUT jacks.

Then, check your Stereo Receiver and see if it is compatible with Dolby Surround or TruSurround. Then follow the steps below to choose the Analog Output setting that is most compatible with your audio equipment.

# 1

Press **SYSTEM MENU**.  will be selected.

# 2

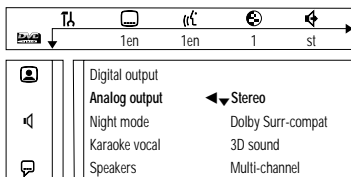
Press **▼** repeatedly to select , then press **▶**.

# 3

Press **▼** to select **Analog output**, then press **▶**. Analog output may be selected already. If so, just press **▶** to continue.

# 4

Press **▲** or **▼** to select **Stereo**, **Dolby Surr-compat (Dolby Surround compatible)**, **3D sound**, or **Multi-channel**, then press the **OK** button.



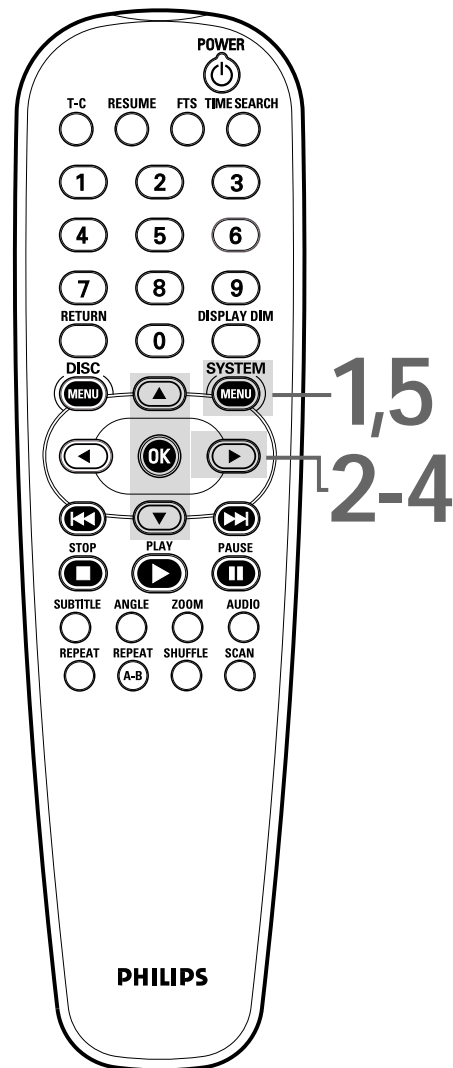
- Select **Stereo** if your audio equipment is not compatible with either Dolby Surround or TruSurround, or if you connected the DVD Player to a Stereo TV only.
- Select **Dolby Surr-compat** (surround compatible) if your audio equipment is compatible with Dolby Surround. If it is, usually a Dolby Pro Logic logo will appear on the equipment.
- Select **3D Sound** if the audio equipment is TruSurround compatible. Again, the audio equipment likely will be labeled with the TruSurround logo as below.
- Select **Multi-channel** if you connected the DVD Player to a 6-channel Receiver as described on page 15. Remember to go to page 49 later to adjust your speaker settings.

# 5

Press **SYSTEM MENU** to remove the menus.

**TruSurround™**  
by **SRS (S)**

TruSurround and the (S) symbol are trademarks of SRS Labs, Inc. TruSurround technology is incorporated under license from SRS Labs, Inc.



### Helpful Hints

- You also can select an analog sound setting in the menu bar. Press **SYSTEM MENU**, then press **▶** repeatedly to select . Press **▲** or **▼** to select **st**, **sur**, **3d**, or **6ch**. Press **SYSTEM MENU** to remove the menu bar.
- If you select **Multi-channel**, **Dolby Pro Logic** is automatically active when playing a 2-channel audio stream. This is not applicable for Audio CDs.




# Speaker Settings 49

Allows you to select speaker settings, volume balance and delay time and to test the speaker settings. Speaker settings are only active on the Analog Multi-Channel Output.

# 1

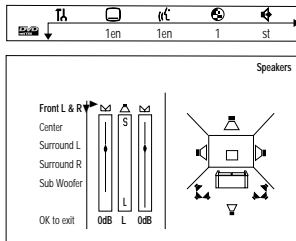
Press **SYSTEM MENU**.  will be selected.

# 2

Press **▼** repeatedly to select , then press **▶**.

# 3

Press **▼** repeatedly to select **Speakers**, then press **▶**.



# 4

Press **▲** or **▼** to select the speaker you want to adjust. Select Front L & R (left and right), Center, Surround L (left), Surround R (right), or Sub Woofer. Your audio system may refer to the Surround speakers as the rear speakers.

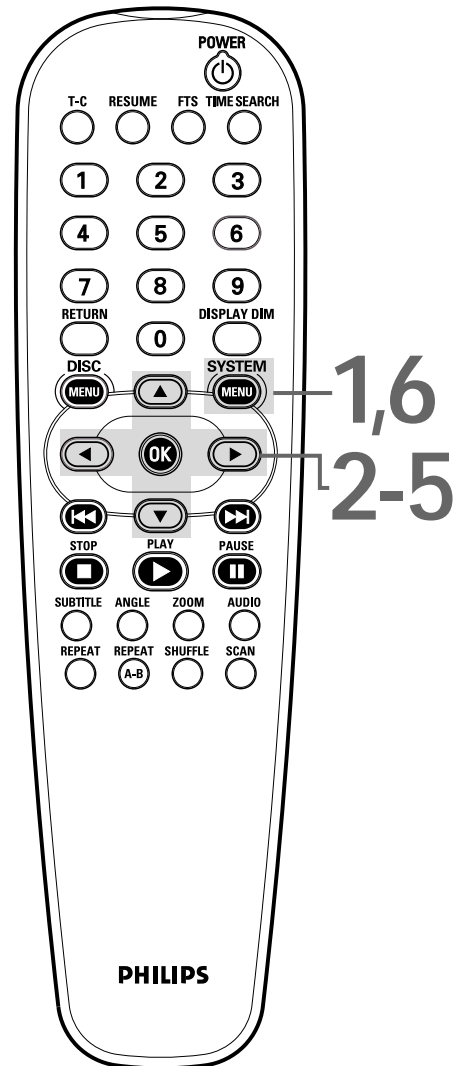
# 5

After selecting the speaker, press **▶**. Then, press **▲** or **▼** to adjust the sound of the speaker.

Press **OK** to go back and select another speaker. Repeat steps 4-5 as often as necessary until you are satisfied with the speaker settings.

# 6

Press **SYSTEM MENU** to remove the menus.



## Helpful Hint


- The Dolby Digital licensing agreement does not prohibit any particular speaker settings. Instead, it gives guidelines for possible speaker settings.

## 50 Wake-up Timer, Night Mode


### Wake-up Timer

The Wake-up Timer turns on the DVD Player within an amount of time you select.

1

Press the **SYSTEM MENU** button. Press **▶** repeatedly to select  in the menu bar.

2

Press **▼**, and 600 will appear beneath , indicating the number of minutes after which the Player will turn on.

3

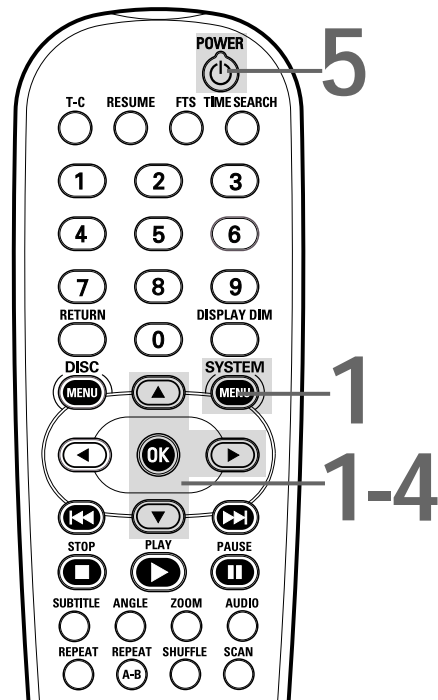
Press **▲** or **▼** repeatedly to select an amount of time, which varies from 30 minutes to 600 minutes in 30-minute increments.

4

Press **OK** to confirm your choice.

5

Press the **POWER** button to place the DVD Player in **standby mode**. The DVD Player will turn on automatically at the time you selected. Disc playback may begin automatically and the unit may beep for a few seconds. Pressing any button on the DVD player or the remote control will cancel the Wake-up Timer.




### Night Mode

Turn on Night Mode to improve the sound during low volume playback.

1

Press **SYSTEM MENU**.  will be selected.

2

Press **▼** repeatedly to select , then press **▶**.

3

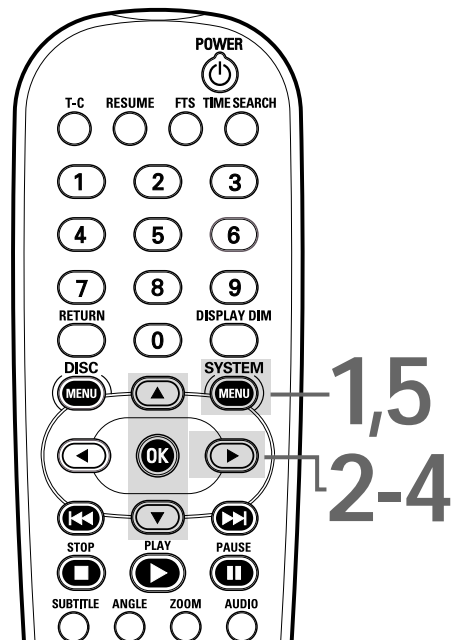
Press **▼** repeatedly to select Night mode, then press **▶**.

4

Press **▲** or **▼** to select On or Off, then press **OK**.

5

Press **SYSTEM MENU** to remove the menus.



# Language, Karaoke Vocal 51

DVD


## Language

Select a different language for the Disc Menu, Audio soundtrack, or Subtitles if multiple languages are available on the Disc.

1

Press **SYSTEM MENU**.  will be selected.

2

Press **▼** repeatedly to select , then press **▶**.

3

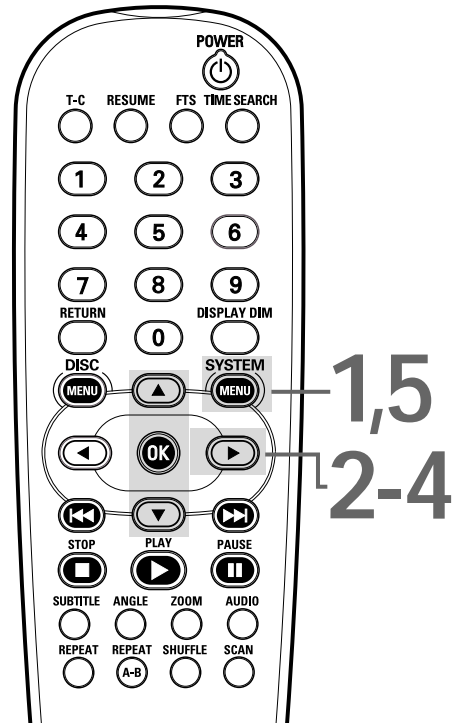
Press **▲** or **▼** to select **Audio Language**, **Subtitle**, or **Menu**, then press the **▶** button.

4

Press **▲** or **▼** to select the language you want from the available languages, then press the **OK** button. The changes will be effective only if the language is available on the Disc.

5

Press **SYSTEM MENU** to remove the menus.



DVD


## Karaoke Vocal

Set Karaoke Vocal to On only when you are playing a multi-channel karaoke DVD. The karaoke channels on the Disc will be mixed into a normal stereo sound.

1

Press **SYSTEM MENU**.  will be selected.

2

Press **▼** repeatedly to select , then press **▶**.

3

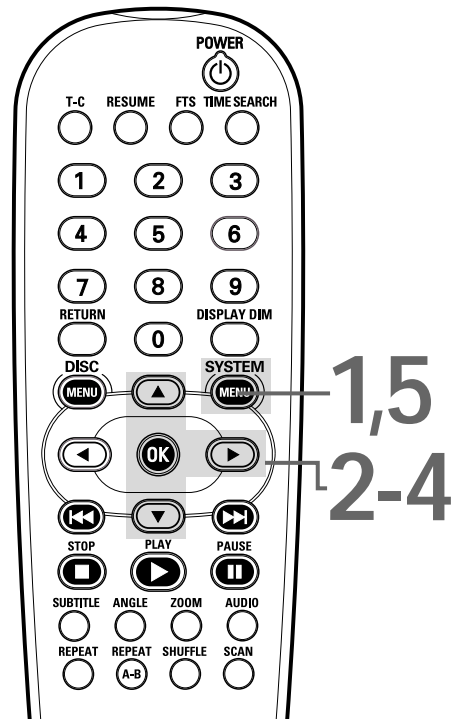
Press **▼** repeatedly to select **Karaoke vocal**, then press **▶**.

4

Press **▲** or **▼** to select **On** or **Off**, then press **OK**.

5

Press **SYSTEM MENU** to remove the menus.



## 52 Smart Power-off, Low power standby

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### Smart Power-off

If Smart Power-off is enabled, the DVD Player will turn off if play stops and you do not use the remote or Player for 20 minutes.

1

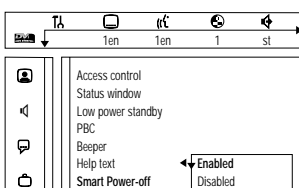
Press **SYSTEM MENU**. will be selected.

2

Press **▼** repeatedly to select , then press **▶**.

3

Press **▼** repeatedly to select **Smart Power-off**, then press **▶**.



4

Press **▲** or **▼** to choose **Enabled** or **Disabled**, then press **OK**. If you do not want the DVD Player to switch to Standby when the Player is not in use for more than 20 minutes, choose **Disabled**.

5

Press **SYSTEM MENU** to remove the menus.

---

### Low power standby

If Low power standby is **On** and you do not use the Player for 20 minutes, the image on the TV screen will dim. The DVD logo will show in the display. This may not affect some users in the U.S.A. This is only active if Smart Power-off is disabled. If Smart Power-off is enabled, the Player will turn off instead.

1

Press **SYSTEM MENU**. will be selected.

2

Press **▼** repeatedly to select , then press **▶**.

3

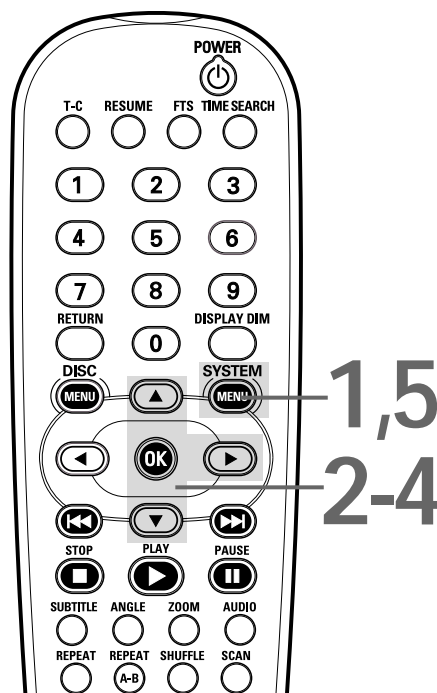
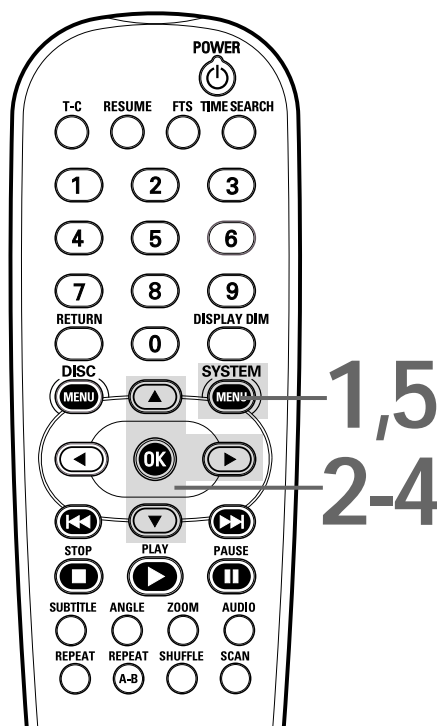
Press **▼** repeatedly to select **Low power standby**. Press **▶**.

4

Press **▲** or **▼** to choose **On** or **Off**, then press **OK**.

5

Press **SYSTEM MENU** to remove the menus.



## Status Window, Help Text 53

### Status Window

The Status Window (example below) may indicate when the disc tray is opening or closing, what type of Disc is installed, and total or remaining Disc playback time.

The status window appears only if Status window is On. To set Status window to On, follow these steps.



1

Press SYSTEM MENU. will be selected.

2

Press repeatedly to select , then press .

3

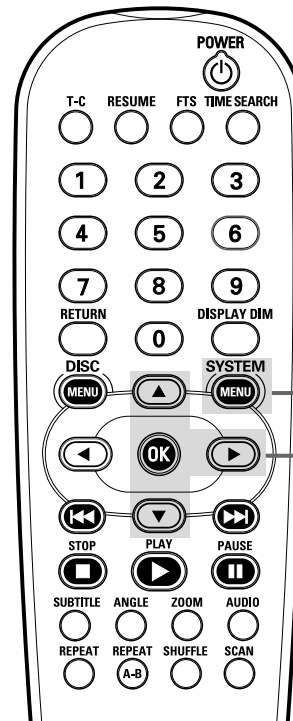
Press to select Status window, then press .

4

Press to choose On, then press OK.

5

Press SYSTEM MENU to remove the menu.



1,5  
2-4

### Help Text

Set Help text to On if you want to see a brief description of the menu bar symbols. When you select an item in the menu bar, an explanation will appear at the bottom of the TV screen.

1

Press SYSTEM MENU. will be selected.

2

Press repeatedly to select , then press .

3

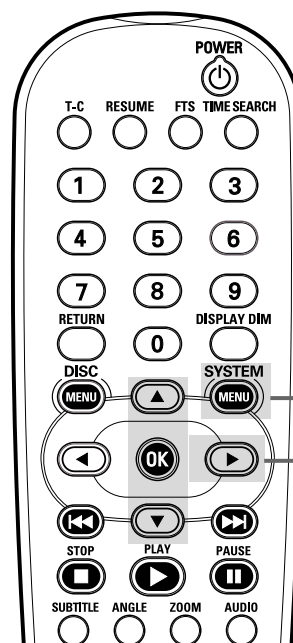
Press repeatedly to select Help text, then press .

4

Press or to choose On or Off, then press OK.

5

Press SYSTEM MENU to remove the menus.



1,5  
2-4

## 54 Helpful Hints

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If you are having problems with your product, check this list of problems and possible solutions before requesting service. You may be able to solve the problem yourself. If you need to call a customer service representative, please know the model number and serial number of your product before you call. This information is on the back of the product. Also, please take a moment to identify the problem you are having, and be prepared to explain this to the representative. If you believe the representative will need to help you with operations, please stay near the product. Our representatives will be happy to assist you.

### No power

- Press the STANDBY-ON button on the front of the DVD Player to turn on the DVD Player.
- Make sure you connected the supplied power cord properly to the MAINS (AC power) jack on the back of the DVD Player. Connect the power cord firmly to an AC power outlet. Use only the supplied power cord.
- Make sure the AC outlet has power by trying another appliance in the same outlet.

### No picture

- Make sure the TV power is on.
- Check the video cables. Make sure the cable(s) are fastened securely to the DVD Player and to the TV.
- Set your TV to the correct Video In channel. These channels are usually near channel 00. Or, you may have a button on the TV remote control that selects an Auxiliary or A/V IN channel. See your TV owner's manual for details. Or, just change channels at the TV until you see the DVD logo on the TV screen.
- You only need one video connection. Refer to page 9 to see what connection best suits your situation.

### Distorted picture

- Check the Disc for fingerprints. Clean the Disc with a soft cloth, wiping from the center to the edge in a straight line.
- Sometimes a small amount of picture distortion may appear. This is not a malfunction.
- Set TV system correctly. If your TV uses NTSC, set the DVD Player to NTSC. Likewise, the DVD discs must be in NTSC format. *Details are on page 16.*

### The picture is distorted or the picture is only black and white during DVD or Video CD playback.

- TVs are produced to meet NTSC or PAL color system standards. If the Disc's or DVD Player's color system is different than your TV's color system, the picture will be distorted or colorless.

However, you can change the color system of the DVD Player by adjusting the TV System setting. In the United States, NTSC is the most common TV color system. Choose NTSC, PAL, or Auto, depending on your TV. *Details are on pages 7 and 16.*

### The sound is distorted during Disc playback through a Stereo.

- Make sure you did not connect any cables from the DVD Player to the Stereo's "PHONO IN" jack.

## Helpful Hints (cont'd) 55

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### **No sound**

- Check the audio connections. *Details are on pages 9-15.* Remember, you only need one audio connection. Refer to page 9 to see what connection best suits your situation.
- Make sure cables are connected firmly to all equipment.
- Select another sound source or Auxiliary station at your Stereo. See your Stereo's manual for details. Or, just continue selecting the different sound sources or modes on the Stereo until you hear sound from the Disc that is in the DVD Player. *Details are on pages 9-15.*
- Check your Analog output settings or Digital output settings. Make sure you choose the right setting, based on what equipment you connected to the DVD Player. *Details are on pages 10-15 and 47-48.*
- Make sure your Analog output settings or Digital output settings match the capabilities of your Stereo Receiver. *Details are on pages 47-48.*

### **Disc will not play.**

- Make sure the Disc label is facing up. If you are playing a two-sided Disc, make sure the side you want to play is facing up. *Details are on page 17.*
- Check the Access Control settings for the Disc. *Details are on pages 30-34.*
- Check the NTSC/PAL settings of the Disc and the DVD Player. *Details are on page 16.*
- Check the Region Code of the Disc. The Disc must be coded for All regions or Region 1 in order to play on this DVD Player. *Details are on page 7.*
- See if the Disc is defective by trying another Disc. Make sure the Disc is not scratched or warped. Carefully clean the Disc. *Details are on page 8.*
- Use a commonly available cleaning CD/DVD to clean the lens of the DVD Player.

### **The DVD logo does not appear on the TV screen after you remove a Disc.**

- Reset the DVD Player by switching it off, then on again.

### **The DVD Player does not respond to the remote control.**

- Aim the remote control directly at the sensor on the front of the DVD Player. *Details are on page 20.*
- Remove any obstacles between the DVD Player and the remote control.
- Inspect or replace the batteries in the remote control.

### **The buttons on the DVD Player or remote control do not work.**

- To reset the DVD Player completely, disconnect the AC power cord from the AC outlet for several minutes. Then reconnect the DVD Player to power again.

### **The DVD Player will not select some features, such as Angles, Subtitles, or multi-language Audio.**

- The feature may not be available on the Disc. If it is not, an "X" will appear on the TV screen. Check the Disc case to see if the Disc has the feature. If the Disc does not have the feature, the DVD Player cannot create the feature. This is not a malfunction of the DVD Player.

### **The still picture is dim or dark.**

- A still picture will dim or darken if you leave it on the screen for more than five minutes. This dimming prevents the still image from etching itself into your TV picture tube or screen. To protect your TV, avoid leaving a still image on the screen. This includes video games, station identification logos, etc.

## 56 Glossary

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**Analog:** Sound that has not been turned into numbers. Analog sound varies, while digital sound has specific numerical values. Analog sound is available when you use the red and white audio jacks on your equipment. These jacks send audio through two channels, the left and right.

**AUDIO OUT Jacks:** Jacks on the back of the DVD Player that send audio to another system (TV, Stereo Receiver, etc.).

**Bit Rate:** The amount of data used to hold a given length of music; measured in kilobits per seconds, or kbps. Or, the speed at which you record. Generally, the higher the bit rate, or the higher the recording speed, the better the sound quality. However, higher bit rates use more space on a disc.

For example, an MP3 music file recorded at 32 kbps will record slowly, use the least Disc space, and have the poorest sound quality. But, an MP3 music file recorded at 96 kbps will record quicker, use more Disc space, and have significantly better sound quality.

**CD:** Compact Disc (audio).

**Coaxial jack:** Sends digital audio to a Stereo Receiver, allowing you to adjust the volume at the Receiver. The Receiver must have a coaxial in jack. This connection provides the 5.1 channel surround sound as heard in movie theaters.

**Component Video Out Jacks:** Jacks on the back of the DVD Player that send high-quality video to a TV that has Component Video In jacks.

**Digital:** Sound that has been converted into numerical values. Digital sound is available when you use the Coaxial or Optical Digital Audio jacks on your equipment. These jacks send audio through multiple channels, instead of just two channels as analog does.

**Dolby Digital:** A surround sound system that provides 5.1 channel sound as used in movie theaters.

**DTS:** Digital Theater Systems. This is a surround sound system, but it is different from Dolby Digital. The formats were developed by different companies.

**DVD:** Digital Video Disc.

**Letterbox:** A TV aspect ratio setting (4:3). Displays the video in full-width, with black bars at the top and bottom of the TV screen. This format is similar to seeing a movie in a theater. If the Disc does not include a letterbox format, selecting Letterbox may have no effect. (For example, some DVD discs are two-sided, with one side playing in Letterbox and the other side playing in a normal format.)

**Optical Jack:** Converts electrical signals into optical signals before sending the audio to the Stereo Receiver. Optical audio is not prone to external electrical influences and has less noise, which reduces adverse effects on external equipment. Be sure to keep the protective cap on the jack when the jack is not in use. This keeps dust out of the jack.

**Pan & Scan:** A TV aspect ratio setting (4:3). Displays the video with full-height picture, with one or both sides of the picture trimmed. Some movie companies refer to this as "reformatting the picture to fit your TV screen."

**Remote Control:** The unit that came with your DVD Player and allows you to operate your DVD Player from a distance.

**S-Video:** Produces a clearer picture by sending separate signals for the luminance and the color. If you connect the supplied S-Video cable, you will not need to use the supplied yellow video cable. You can use S-Video only if your TV has an S-Video In jack.

**VIDEO OUT Jack:** Jack on the back of the DVD Player that sends video to a TV.

**Widescreen:** A TV aspect ratio setting (16:9). Displays the video appropriately when you connect the DVD Player to a widescreen TV.



# Specifications 57

## Optical read-out system

- Laser type Semiconductor AlGaAs
- Numerical Aperture 0.60 (DVD)  
0.45 (VCD/CD)
- Wavelength 650 nm (DVD)  
780 nm (VCD/ CD)

## TV standard

**PAL**                      **NTSC**  
50 Hz                      60Hz

- Number of lines 625                      525
- Playback Multi standard (PAL/NTSC)

## Video format

- D/A converter 54Mhz / 12 bits
- Signal handling Components
- Digital compression MPEG 2 for DVD  
MPEG 1 for VCD

DVD	50Hz	60Hz
Horiz. resolution	720 pixels	720 pixels
Vertical resolution	576 lines	480 lines
VCD	50Hz	60Hz
Horiz. resolution	352 pixels	352 pixels
Vertical resolution	288 lines	240 lines

## Video performance

- Video output 1 Vpp into 75 ohm
- S-Video Output Y: 1 Vpp into 75 ohm  
C: 0.3 Vpp into 75 ohm
- YUV output Y: 1 Vpp into 75 ohm  
CrCb: 0.7 Vpp into 75 ohm
- Black Level Shift On/off
- Video Shift Left/right

## Audio format

- Digital 

MPEG/AC-3/ DTS PCM	Compressed Digital, 16, 20, 24 bits fs, 44.1, 48, 96 kHz
-----------------------	--

- Analog sound stereo
- Dolby Pro Logic downmix from Dolby Digital and DTS multi-channel sound
- Full decoding of Dolby Digital and DTS multi-channel surround sound
- MPEG MP3 MPEG Audio L3
- 3D sound for virtual 5.1 channel sound on 2 speakers

## Audio performance (typical)

- D/A converter 24 bits

DVD:	Fs 96 kHz	4 Hz- 44 kHz
	Fs 48 kHz	4 Hz- 22 kHz
Video CD:	Fs 44.1 kHz	4 Hz- 20 kHz
CD:	Fs 44.1 kHz	4 Hz- 20 kHz
SVCD:	Fs 44.1 kHz	4 Hz- 20 kHz
	Fs 48.1 kHz	4 Hz- 22 kHz

- Signal-noise (1kHz) 110 dB
- Dynamic Range (1kHz) 100 dB
- Crosstalk (1kHz) 110 dB
- Distortion/noise (1kHz) 98 dB

## Connection

- Y Output Cinch (green) 2
- P<sub>b</sub> Output (C<sub>b</sub>) Cinch (blue) 2
- P<sub>r</sub> Output (C<sub>r</sub>) Cinch (red) 2
- S-Video output Mini DIN, 4-pins
- Video output Cinch (yellow), 2
- Audio L+R Output Cinch (white/ red)

## 6 Channel Analog Output

- Audio Front Left/Right Cinch (white/red)
- Audio Surr. Left/Right Cinch (white/red)
- Audio Center Cinch (blue)
- Audio Subwoofer Cinch (black)
- Digital Output 1 coaxial, 1 optical  
IEC958 for Audio CD/LPCM  
IEC1937 for MPEG 1/2,  
AC-3, DTS

## Power supply

- Power inlet 100V-240V, 50/60 Hz
- Power usage Approximately 25 watts
- Power usage standby Less than 3 watts
- Energy Star compliant

## Cabinet

- Dimension (W x H x D) 435 x 72.5 x 291 mm  
17.12 x 3.94 x 12.64 inches
- Weight Approximately 3 Kg.

*Specifications are subject to change without notice.*

# 58 Limited Warranty

## Digital Video Disc Player

90 days Free Exchange / 91 days–One Year Reduced-Cost Exchange

### WHO IS COVERED?

You must have proof of the date of purchase to exchange your product. A sales receipt or other document showing the date that you purchased the product is considered such proof.

### WHAT IS COVERED?

Warranty coverage begins the day you buy your product. For 90 days thereafter, you may exchange the defective product for a new or renewed product at the store from which it was purchased or through Philips. Either exchange is made at no cost to you.

From 91 days to one year from the date of purchase, you will pay a preset exchange fee to obtain a new or renewed product. Follow the exchange procedures on the next page. This exchange opportunity ends one year after the date of purchase. The replacement product is covered only for the warranty period of the original product. When the warranty on the original product expires, the warranty on all replaced products also expires.

### WHAT IS EXCLUDED?

Your warranty does not cover:

- shipping charges to return defective product.
- 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, abuse, neglect, misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics.
- 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.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product that is used for commercial or institutional purposes (including but not limited to rental purposes).

### WHERE IS EXCHANGE AVAILABLE?

Warranty exchange is available in all countries where the product is officially distributed by Philips Consumer Electronics. In countries where Philips Consumer Electronics does not distribute the product, the local Philips service organization will attempt to exchange the product, although there may be a delay if the appropriate product is not readily available.

### MAKE SURE YOU KEEP...

Please keep your sales receipt or other document

showing proof of date of purchase. Attach it to the owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

### BEFORE EXCHANGING THE PRODUCT...

Please check your owner's manual before exchanging the product. Adjustments of the controls discussed there may save you time and money.

### LIMITATION OF LIABILITY AND REMEDY...

Philips is not liable under any circumstances for any direct, indirect, special, incidental, or consequential damages, howsoever incurred, even if notified of the possibility of such damages.

To the extent permitted by local law, the remedies provided in this warranty statement are your sole and exclusive remedy.

This limited warranty gives you specific legal rights, and you may also have other rights which vary from state/province to state/province.

### TO EXCHANGE YOUR PRODUCT IN THE U.S.A., PUERTO RICO, OR U.S. VIRGIN ISLANDS...

Follow the instructions stated previously in the "What is Covered" section, or refer to the exchange instructions on the next page.

In the U.S.A., Puerto Rico, and U.S. Virgin Islands, all implied warranties, including the implied warranties of non-infringement, merchantability and fitness for a particular purpose, are specifically disclaimed, and to the extent inconsistent with law of the locality of the user, limited in duration to the duration of this express warranty. Because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.

### TO EXCHANGE A PRODUCT IN CANADA...

Please contact Philips at:

1-800-661-6162 (French Speaking)

1-800-363-7278 (English Speaking)

In Canada, this warranty is given in lieu of all other warranties. There are no other warranties, express or implied, including any implied warranties of merchantability or fitness for a particular purpose.

### TO GET OUT-OF-WARRANTY EXCHANGE...

In the U.S.A., Puerto Rico, or U.S. Virgin Islands, contact Philips Service Solutions Group at 1-800-531-0039 to obtain the cost of out-of-warranty exchange.

### REMEMBER...

Please record below the model and serial numbers found on the product. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # \_\_\_\_\_

SERIAL # \_\_\_\_\_

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## EXCHANGE INSTRUCTIONS

If your product is defective, you may be able to exchange it at the store from which it was purchased. Most stores display a Return Policy. If not, ask the manager or sales associate how many days you have to exchange a product with them. After the store's return period has expired, or if the store does not have an exchange program, you may exchange the product with Philips if you have your original sales receipt.

**To exchange your product with Philips (per the warranty conditions stated previously), remember:**

- If you exchange the product within 90 days of the original purchase, there is no cost to you.
- If you exchange the product more than 90 days after but less than one year after the day of original purchase, contact Philips Service Solutions Group (PSSG) at 1-800-531-0039 to determine the preset cost for exchange.
- After 12 months from the day of original purchase, contact PSSG at 1-800-531-0039 for information regarding out-of-warranty exchange.
- If you do not have your original sales receipt, or if you have any questions, call PSSG at 1-800-531-0039.

**To obtain a replacement product from Philips:**

1. Contact PSSG at 1-800-531-0039 to determine the cost for exchange.
2. Complete the Exchange Form below.
3. Pack the product and its accessories in the original box or a suitable alternative. You will receive replacement accessories with your replacement product. For packing details, call 1-800-531-0039.
4. Put the completed Exchange Form, a copy of the original sales receipt, and the proper payment amount into an envelope. **DO NOT SEND CASH.** Do not staple or clip these items together. Label the envelope "Return Documents Enclosed." Place this envelope in the box with the product.
5. Seal the box with packing tape and return the product via United Parcel Service (UPS), insured and freight prepaid, to:

Philips Recovery Center  
Rojas 6  
12420 Mercantile Avenue  
El Paso, TX 79928  
ATTENTION: DVD PLAYER EXCHANGE

A replacement will be sent to you via UPS within 48 business hours of Philips' receipt of the product.

## EXCHANGE FORM

**Your Address (street address to which replacement should be delivered, no P.O. boxes allowed):**

Name: \_\_\_\_\_

Street Address: \_\_\_\_\_

Apt. #: \_\_\_\_\_

City: \_\_\_\_\_

State/Province: \_\_\_\_\_

Zip Code/Postal Code: \_\_\_\_\_

Phone (day): \_\_\_\_\_

Phone (night): \_\_\_\_\_

**Exchange Fee:** \_\_\_\_\_ + **Sales Tax:** \_\_\_\_\_ = **Total:** \_\_\_\_\_

**Method of Payment:** (Check one. Please, no cash or CODs.)

\_\_\_\_\_ Check/Money order      Check/Money order No. \_\_\_\_\_

	Account number	Expiration date
_____ American Express	_____	_____
_____ Visa	_____	_____
_____ Novus/Discover	_____	_____
_____ Mastercard	_____	_____

**Signature:** \_\_\_\_\_

Detailed reason for return, use additional paper if necessary: \_\_\_\_\_

Model Number \_\_\_\_\_ Serial Number \_\_\_\_\_

**Remember, the return box should include the following:**

- The product,
- Completed Exchange Form and sales receipt,
- Accessories supplied with the product, and
- Payment, if applicable.

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