



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!

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

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

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. 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.

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 chocs 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 Model No. and Serial No., which are located on the rear of the cabinet. Retain this information for future reference.

Model No. _____
Serial No. _____



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Visit our World Wide Web Site at <http://www.philips.com>

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4 Safety Information

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.

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 Player or the remote control to excessive moisture, rain, humidity, sand, or heat sources.
- Place the Player on its base and on a firm, flat surface.
- Keep the Player away from domestic heating equipment and direct sunlight.
- When placing the Player in a cabinet, allow about one inch of space all around the Player for ventilation.
- Do not spill water or put anything that is wet on the remote control.
- Do not drop the remote control.
- Batteries contain chemical substances. Dispose of them properly; keep them away from children.


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: DVD580M
Trade Name: Philips
Responsible Party: Philips Consumer Electronics North America
P.O. Box 14810, Knoxville, TN 37914-1810
(865) 521-4316

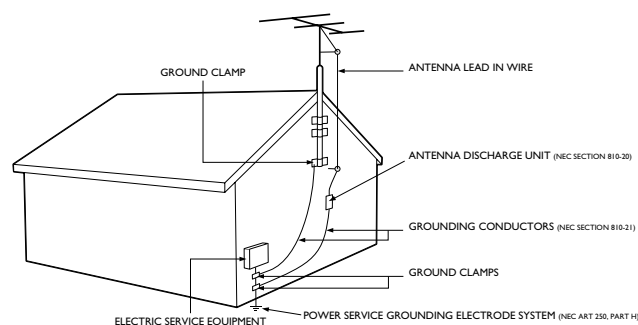
IMPORTANT SAFETY INSTRUCTIONS. READ BEFORE OPERATING EQUIPMENT.

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
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.

Example of Antenna Grounding per NEC - National Electrical Code



6 Introduction

Welcome!

We hope you enjoy this Player and learn to appreciate its features. Read this manual carefully to learn to use the following features.

Features

- Favorite Track Selection
 - Forward/Reverse Search
 - Language choices for Subtitles*, Player's System Menu, and Audio*
 - NTSC/PAL compatibility
 - Parental Control*
 - Paused Playback
 - Repeat (A-B segment, Chapter, Title, Track, Disc)
 - Slow Playback (forward/reverse)
 - Time Search
 - Zoom Playback
- * *If available on the Disc*

Package Contents

- Player
- Remote control with two AA batteries
- Audio cable (red, white)
- Video cable (yellow)
- Power adaptor
- This owner's manual and registration materials

When referring to this manual, remember...

DVD Indicates the feature may be on some Digital Video Discs.

AUDIO CD Indicates the feature may be on some Audio Compact Discs.

VIDEO CD Indicates the feature may be on some Video Compact Discs.

DVD Disc Menus


Some explanations in this manual describe the DVD Disc Menus, which vary among DVDs. DVD Disc Menus allow you to choose different playback features from those available on the DVD. If the DVD has a menu, access it by pressing DISC MENU on the remote control. *Details are on page 20.*

Player's System Menu or Setup Menu

Some instructions explain how to use the Player's System Menu to set up features of the Player or the Disc. Access the Player's System Menu by pressing SYSTEM MENU on the remote control. Even if a feature is set up in the System Menu, it will not be available if the current Disc does not include that feature. The Player also refers to the System Menu as the Setup Menu. These are the same.

Available Disc Features



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

Playable Discs

This Player will play Digital Video Discs (DVDs), Video Compact Discs (VCDs), Super Video CDs, Audio CDs, and the Audio CD layer of Super Audio CDs. This Player also plays MP3 files recorded onto a Compact Disc Recordable (CD-R) or a Compact Disc Rewritable (CD-RW).

Discs having the following logos should play on this Player. DVDs must also meet the Region Code and Color System requirements described below.

	DVD		CD-R
	Audio CD		CD-RW
	Video CD		MP3 files
	Super Video CD		Super Audio CD (SACD) (plays the CD layer only)

Region Codes

DVDs must be labeled for **ALL regions** or for **Region 1** in order to play on this 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 Player.



The number inside the globe refers to a region of the world. Region 1 represents the United States of America, 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 that have the same region code. So, if a Disc is labeled for Region 2, you cannot play that DVD on this Player (because this is a Region 1 Player).

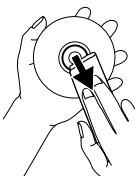
Color Systems

Different color systems are available throughout the world. DVD makers record DVDs in a certain Color System. The Color System of the DVD may appear on the DVD or its case. The most common color systems are NTSC, which is used primarily in the United States and North America, PAL, and SECAM.

The Player's Color System must be the same as your DVDs and your TV. Set the Player's Color System to NTSC or PAL by repeatedly pressing VIDEO SYS on the remote while playback is stopped. *Details are on page 33.*

Cleaning Discs

- Clean Discs with a cleaning cloth. Wipe from the center to the edge in a straight line.



- Do not use solvents such as benzene, thinner, commercially-available cleaners, or anti-static spray intended for analog discs.
- If the 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 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 playback is possible.

Helpful Hints

- If you are having trouble playing a certain Disc, remove the Disc and try a different one. Improperly formatted Discs will not play on this Player.
- This Player supports only the first session of multi-session Discs.

8 Hookups

Determining the best possible connection...

Your existing equipment, especially your TV, will determine your connection possibilities. However, the following guidelines describe which options provide the best picture and sound quality.

- ★★★★ Component Video provides the best picture quality. *Details are on page 11.*
- ★★★ S-Video provides excellent picture quality. *Details are on page 10.*
- ★★ Composite Video (a yellow Video jack) provides good picture quality. *Details are on page nine.*
- ★★ **Your TV may have only an RF-style jack, usually labeled Antenna In or 75 ohm or RF In. You will need an RF modulator in order to view the Player's materials at your TV. See your electronics retailer or contact Philips for details on RF modulator availability and operations.**

- ★★★★ Digital audio connections provide the clearest sound, but you must have a digital Stereo. Connect either the COAXIAL or OPTICAL Digital Audio Out jack of the Player to your Stereo's Coaxial or Optical Digital Audio In jack for the best sound quality. *Details are on page 13.*
- ★★★★ If you have a Multichannel Receiver, connect the Player's FL, FR, SL, SR, CENTER, and SUBW. jacks to the corresponding In jacks on the Receiver. (A Multichannel Receiver is connected to six speakers: Front Left, Front Right, Surround/Rear Left, Surround/Rear Right, Center, and Subwoofer.) *Details are on page 14.*
- ★★★ If you have a Philips Multichannel Receiver, it may have a Multichannel 5.1 Audio In jack. If so, connect the Player's MULTI-5.1 (Out) jack to the appropriate Multichannel 5.1 Audio In jack on the Philips Receiver.
- ★★★ If digital connections or multichannel connections are not possible, connect the Player's FL (front left, white) and FR (front right, red) jacks to the left and right Audio In jacks of your Stereo or TV. *Details are on pages 9-12.*
If your TV has a single Audio In jack instead of separate left/right Audio In jacks, you will need a different audio cable than the one supplied. You need a "splitter" audio cable to go from the FL (front left, white) and FR (front right, red) jacks of the Player to the single Audio In jack on your TV. See an electronics retailer or contact Philips for details.

Before you begin...

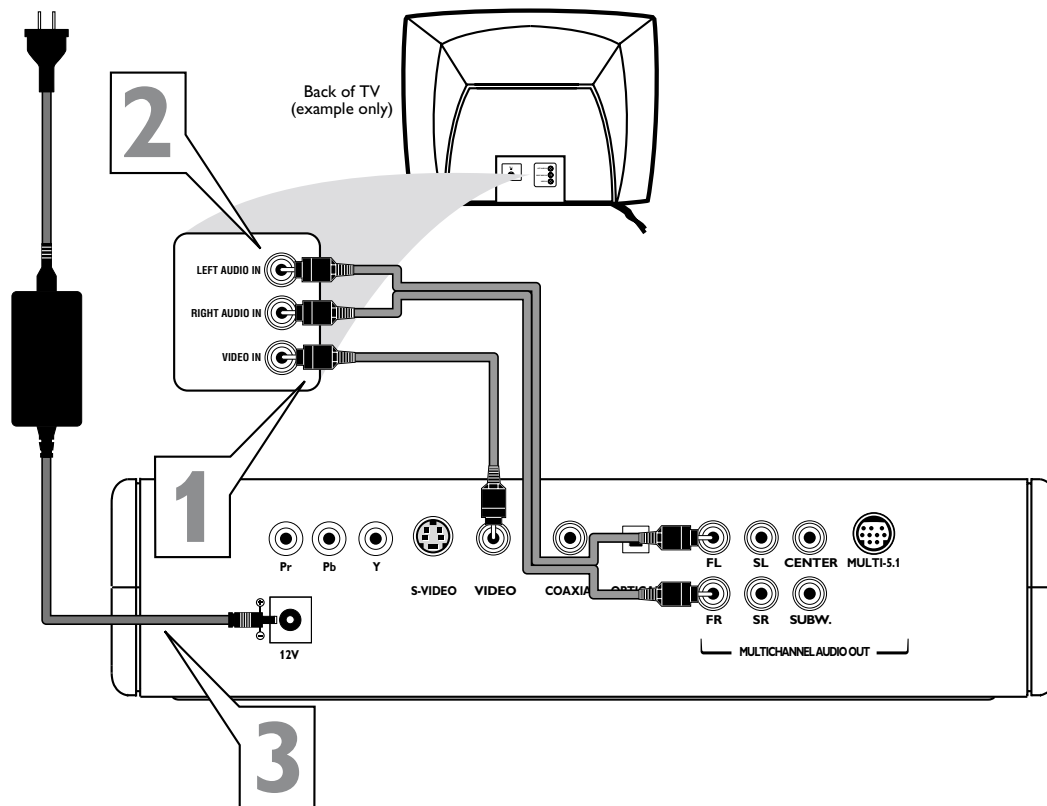
- Refer to the manuals of your TV, Stereo, Receiver, or other equipment as necessary. Note the style of jacks and connectors on the other equipment. Determine how to choose different Audio and Video In channels on your other equipment so you can see and hear the Player's materials on the TV, Stereo, etc. Some equipment may let you choose the channels using a remote control or by adjusting a TV/VIDEO/AUXILIARY/SOURCE switch.
- 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 Player directly to the TV. For example, do not connect the Player to a VCR, then connect the VCR to a TV. This type of connection may distort the picture and sound. Also, your VCR may have a copy protection system that may distort the picture or prevent playback of some Discs.
- 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 or External In, etc. These channels are often near channel 00. Your TV or its remote control may have a Video or Auxiliary switch/button that allows you to choose the correct Video In channel. See your TV manual for details. Or, change TV channels until you see the Player's blue background screen on the TV.
- Set the Stereo or Receiver to the correct channel or "source" mode.
- Do not connect any of the Player's Audio Out jacks (FL, FR, etc.) to the PHONO IN jack of your Stereo.
- You only need one audio connection and one video connection between the Player and your TV and/or Stereo. So, you will not use all the jacks on the Player.
- Set TV TYPE (page 33), VIDEO OUT (page 35), and AUDIO OUT (page 36) accordingly.

Once you determine the best option, find your choice on pages 9-14. Follow the steps for the hookup you choose.

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



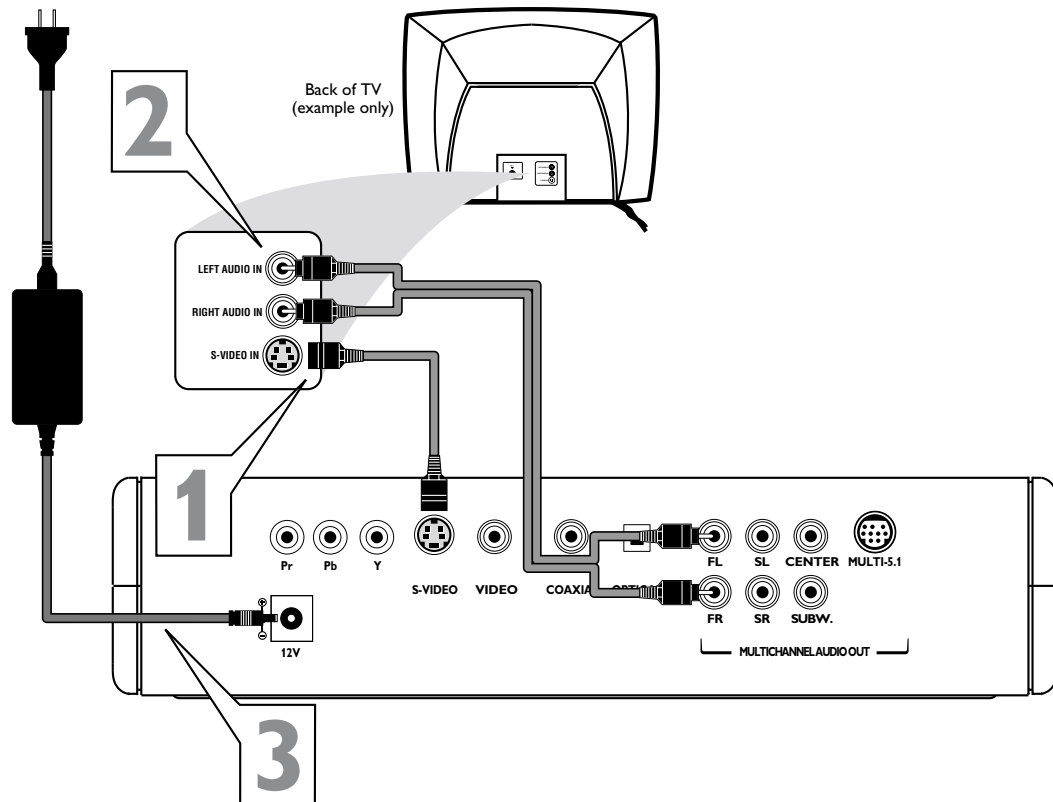
- 1** Connect the supplied yellow video cable to the Player's yellow **VIDEO** jack and to the corresponding **VIDEO IN** jack on your TV.
- 2** Connect the supplied red and white audio cables to the Player's **FR** (front right, red) and **FL** (front left, white) jacks and to the right/left **AUDIO IN** jacks on the TV. Match the cable colors to the jack colors.
- 3** Connect the supplied power adaptor to the **12V** jack on the rear of the Player. Connect the power plugs of the Player's adaptor and the TV to a power outlet.
- 4** Press **POWER** or **DVD** to turn on the Player. Turn on the TV and 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 Player's blue background screen on the TV.
- 5** Set TV **TYPE** accordingly. *Details are on page 33.*
Set **AUDIO OUT** to **ANALOG**. *Details are on page 36.*

Helpful Hint

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

10 Hookups (cont'd)

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

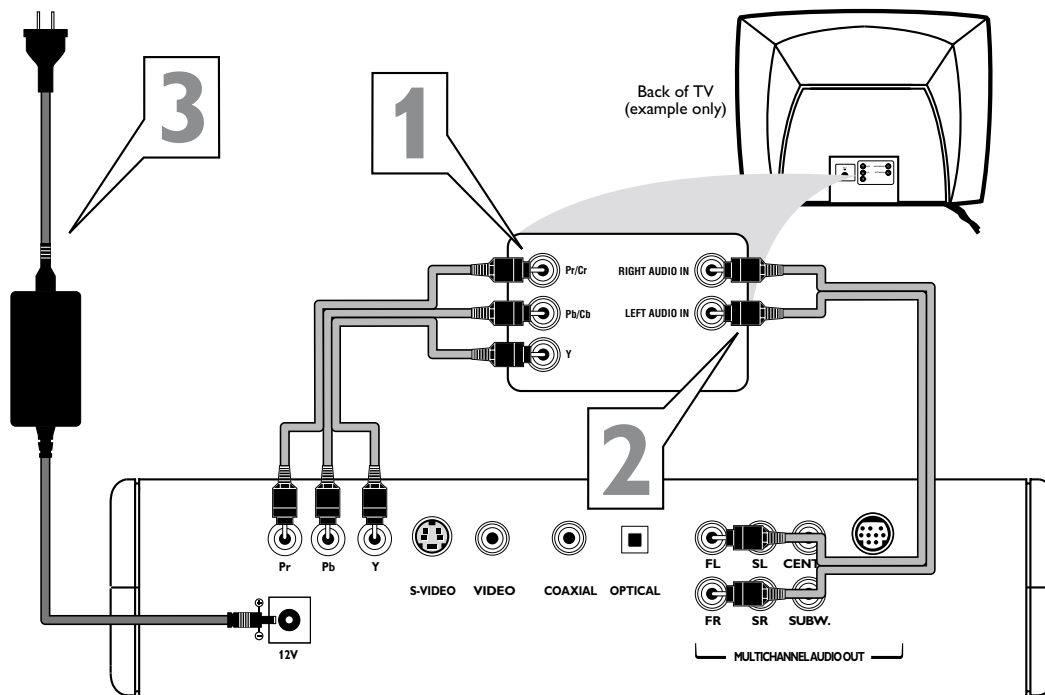




- 1** Connect an S-Video cable (not supplied) to the Player's S-VIDEO jack and to the TV's S-VIDEO IN jack.
- 2** Connect the supplied red and white audio cables to the Player's FR (front right, red) and FL (front left, white) jacks and to the right/left AUDIO IN jacks on the TV. Match the cable colors to the jack colors.
- 3** Connect the supplied power adaptor to the 12V jack on the rear of the Player. Connect the power plugs of the Player's adaptor and the TV to a power outlet.
- 4** Press **POWER** or **DVD** to turn on the Player. Turn on the TV and set the TV to the correct S-Video in channel. See your TV owner's manual for details. Or, change channels at the TV until you see the Player's blue background screen on the TV.
- 5** Set TV TYPE accordingly. *Details are on page 33.*
Set AUDIO OUT to ANALOG. *Details are on page 36.*
Set VIDEO OUT to (S-)VIDEO. *Details are on page 35.*

Helpful Hint

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

Connecting to a TV Only TV has Component Video In Jacks



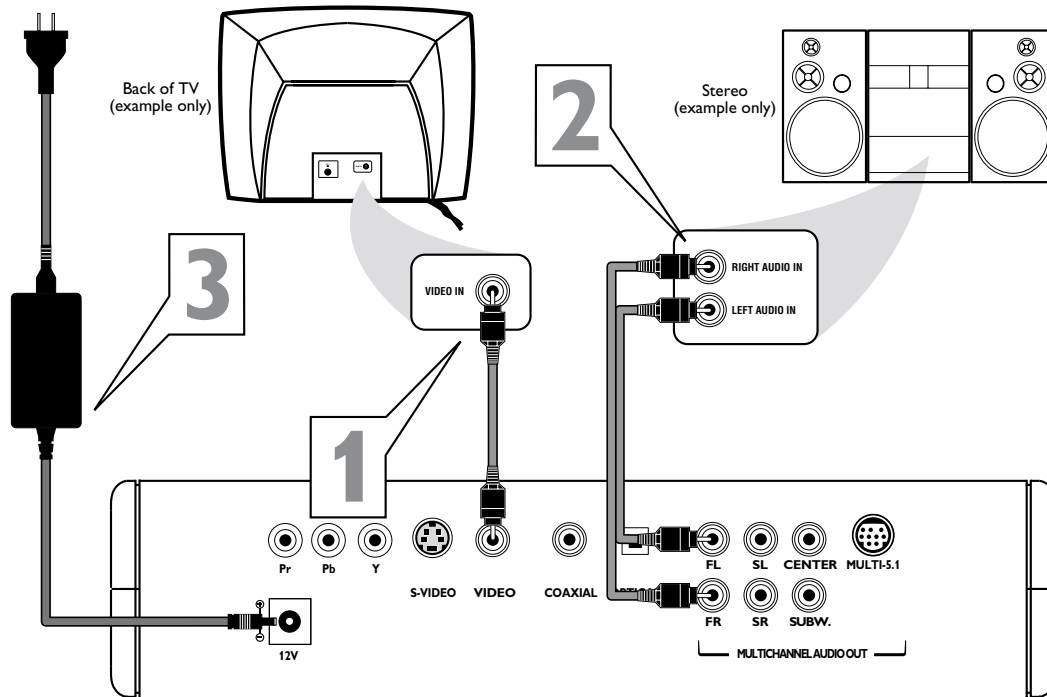
- 1** Connect the Player's Pr (red) Pb (blue) and Y (green) jacks to the corresponding Pr/Cr Pb/Cb Y VIDEO IN jacks on the TV. Use component video cable (not supplied). Match the cable colors to the jack colors if your cables are color-coded.
- 2** Connect the supplied red and white audio cables to the Player's FR (front right, red) and FL (front left, white) jacks and to the right/left AUDIO IN jacks on the TV. Match the cable colors to the jack colors.
- 3** Connect the supplied power adaptor to the 12V jack on the rear of the Player.
Connect the power plugs of the Player's adaptor and the TV to a power outlet.
- 4** Press **POWER**  or **DVD**  to turn on the Player.
Turn on the TV and 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 Player's blue background screen on the TV.
- 5** Set TV TYPE accordingly. *Details are on page 33.*
Set AUDIO OUT to ANALOG. *Details are on page 36.*
Set VIDEO OUT to YCBCR. *Details are on page 35.*



Helpful Hint

- On the TV, the Component Video In jacks may be labeled YUV or Pr/Cr Pb/Cb Y and may be red, blue, and green.

12 Hookups (cont'd)

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



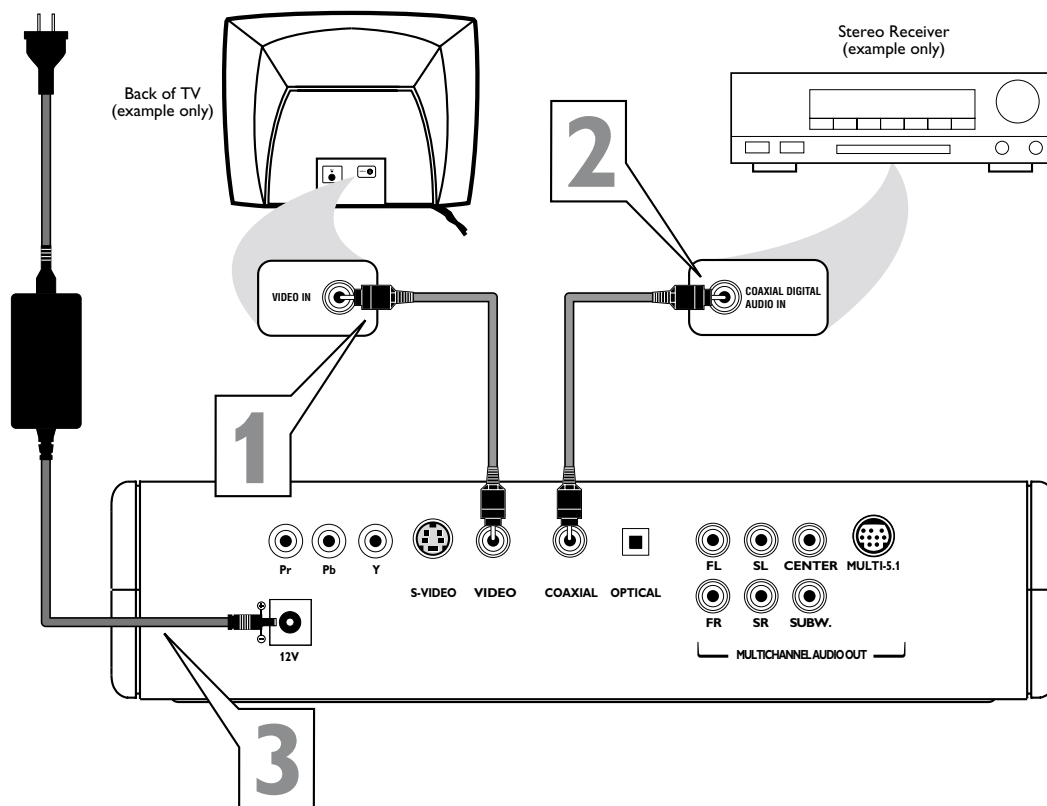
- 1** Connect the supplied yellow video cable to the Player's yellow **VIDEO** jack and to the corresponding **VIDEO IN** jack on your TV.
- 2** Connect the supplied red and white audio cables to the Player's **FR** (front right, red) and **FL** (front left, white) jacks and to the right/left **AUDIO IN** jacks on the Stereo. Match the cable colors to the jack colors.
- 3** Connect the supplied power adaptor to the **12V** jack on the rear of the Player. Connect the power plugs of the Player's adaptor, the TV, and the Stereo to a power outlet.
- 4** Press **POWER**  or **DVD**  to turn on the Player. Turn on the TV and set it 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 near channel 00. See your TV owner's manual for details. Or, change channels at the TV until you see the Player's blue background screen on the TV. Turn on the Stereo and set it to the correct Audio In channel or sound source. Refer to the Stereo's manual.

- 5** Set TV TYPE accordingly. Details are on page 33. Set AUDIO OUT to ANALOG. Details are on page 36.

Helpful Hint

- You may use S-Video or Component Video connections instead for higher picture quality. These options must be available on your TV. Details are on pages 10-11.

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



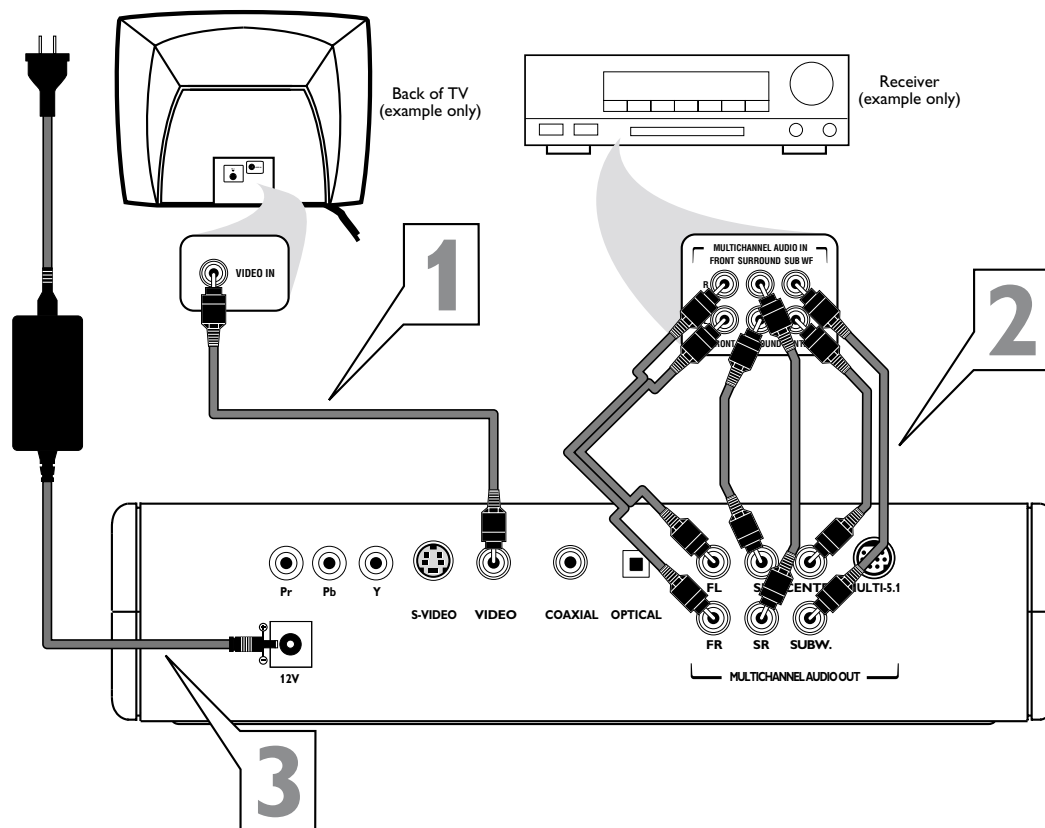
- 1** Connect the supplied yellow video cable to the Player's yellow **VIDEO** jack and to the corresponding **VIDEO IN** jack on your TV.
- 2** Connect either the **COAXIAL** or **OPTICAL** jack of the Player to the corresponding **COAXIAL** or **OPTICAL Digital Audio In** jack on your Stereo. You only need one connection, so you will not use both jacks. Use a digital audio cable (not supplied).
- 3** Connect the supplied power adaptor to the **12V** jack on the rear of the Player. Connect the power plugs of the Player's adaptor, the TV, and the Stereo to a power outlet.
- 4** Press **POWER** or **DVD** to turn on the Player. Turn on the TV and set it 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 near channel 00. See your TV owner's manual for details. Or, change channels at the TV until you see the Player's blue background screen on the TV. Turn on the Stereo and set it to the correct Digital Audio In channel or sound source. Refer to the Stereo's manual.
- 5** Set TV TYPE accordingly. Details are on page 33. Set AUDIO OUT accordingly. Details are on page 36.

Helpful Hints

- You will have Multichannel sound with this connection only if your Stereo has a digital multichannel decoder.
- Your Stereo must support MPEG2, Dolby Digital™ or Digital Theater System (DTS). Check the Stereo's manual.
- You may use S-Video or Component Video connections instead for higher picture quality. These options must be available on your TV. Details are on pages 10-11.

14 Hookups (cont'd)



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



1 Connect the supplied yellow video cable to the Player's yellow VIDEO jack and to the corresponding VIDEO IN jack on your TV.

2 Connect the Player's CENTER jack to the Receiver's CENTER IN jack.
Connect the Player's SUBW. (subwoofer) jack to the Receiver's SUBWOOFER IN jack (or directly to the Subwoofer if possible).
Connect the Player's FR (front right, red) and FL (front left, white) jacks to the Receiver's right and left FRONT AUDIO IN jacks. You may use the supplied red and white audio cables.
Connect the Player's SR (surround right) and SL (surround left) jacks to the right/left SURROUND IN jacks on your Receiver. Your Receiver may refer to Surround as Rear. These are the same.

3 Connect the supplied power adaptor to the 12V jack on the rear of the Player.
Connect the power plugs of the Player's adaptor, the TV, the Receiver, and its Speakers to a power outlet.

4 Press POWER  or DVD  to turn on the Player.
Turn on the TV and set it to the correct Video In channel. Refer to your TV manual. Or, change TV channels until you see the Player's blue background screen on the TV.
Turn on your Receiver and set it to the correct Audio In channel or sound source. Refer to the Receiver's manual.

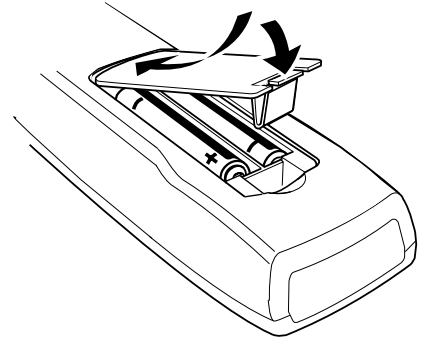
5 Set TV TYPE accordingly. Details are on page 33.
Set AUDIO OUT accordingly. Details are on page 36.

Helpful Hints

- Cables for the connections to the Receiver are not supplied with the Player.
- You may use S-Video or Component Video connections instead for higher picture quality. These options must be available on your TV. Details are on pages 10-11.
- Connect the speakers to the Receiver as instructed by the Receiver's owner's manual.

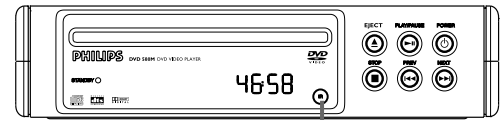
Putting Batteries in the Remote Control

- 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 as shown at right.



Using the Remote Control

Always point the remote control directly at the remote sensor (IR or infrared) on the front of the Player, not the TV. Details are on page 18. Make sure there are no barriers between the remote control and the Player.



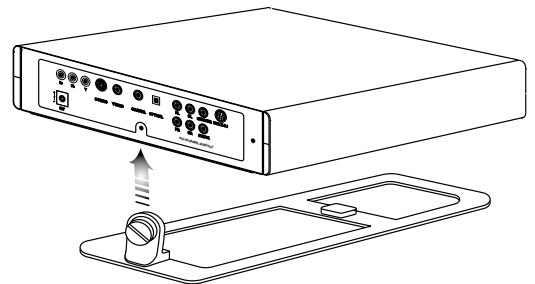
Remote Sensor (IR)

Connecting the Base

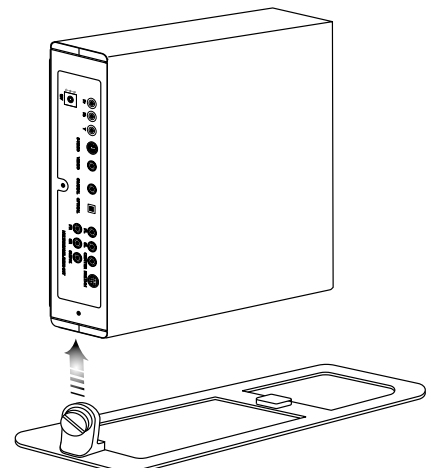
A base is provided with the Player to add stability and to allow you to position the Player horizontally or vertically, whichever fits your setup situation best. To connect the base, follow these steps.

- 1** Use a coin to loosen the screw on the base.
- 2** Decide whether you want to attach the Player to the base vertically or horizontally. Turn the Player vertically or horizontally, then find the screw hole in the Player that you need to use.
If you want to attach the Player to the base horizontally, use the screw hole that is just below the COAXIAL and OPTICAL jacks.
If you want to attach the Player to the base vertically, use the screw hole that is to the right of the MULTI-5.1 jack.
- 3** Place the Player on the base so the screw aligns with the hole on the Player. Insert and tighten the screw to secure the Player to the base. Use a coin to tighten the screw.

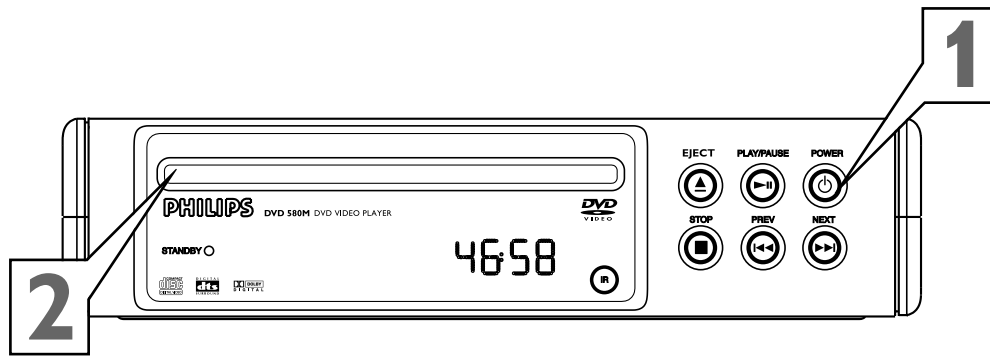
Horizontal Attachment













Vertical Attachment

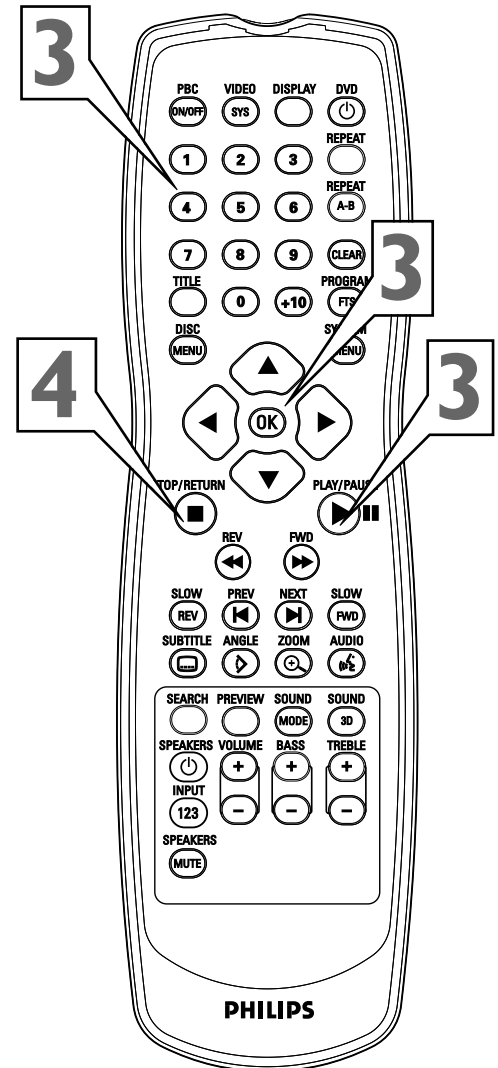


16 Quick Disc Playback



There are many playback features and options available on Discs. After familiarizing yourself with the Player and its remote control as described on pages 17-19, see pages 20 and following to try additional playback features.

- 1 Press POWER  to turn on the Player. Turn on your TV. Set it to the correct Video In channel.** You should see the blue background screen on the TV (if no Disc is in the Player).
- 2 Gently insert a Disc into the Disc Slot so that about one-third of the Disc is in the slot. From that point, the Player will take the Disc and load it automatically.** Do not force a Disc into the Disc Slot. If the Player does not immediately accept the Disc, take away the Disc. Press EJECT  on the front of the Player to make sure there is not another disc in the Player already. Load Discs with the label facing up and the shiny side facing down. If a Disc is two-sided, make sure the side you want to play is facing up when you put it in the Disc slot.
- 3 After the Player loads the Disc, playback may begin automatically. If not, press PLAY/PAUSE .** Playback will stop at the end of the Title or after the last Track. **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     to select an item, then press OK.
- 4 To stop playback at any time, press STOP/RETURN  once.** To resume playing the Disc later from the same point, press PLAY/PAUSE . If you press STOP/RETURN  twice to stop playing the Disc, play will start at the beginning of the Disc the next time you resume playback.



Helpful Hints

- If the Disc is locked by Parental Control, enter your password to watch the Disc. Details are on pages 28-29.
- DVDs have a region code. This Player only plays DVDs that are Region 1 (one) or All. Details are on page 7.

Remote Control Buttons 17

VIDEO SYS (system) Button

Press repeatedly when playback is stopped to set the Player's Color System to NTSC, PAL, or MULTI. Details are on page 33.

PBC ON/OFF Button

Press to turn Playback Control on or off when playing a Video CD. Details are on page 30.

Number Buttons

Use to select numbered items in a Disc menu. Details are on page 20. Press to select a Track for playback. Use the +10 button to enter Tracks above nine. For example, to select Track 18, press +10, then 8.

TITLE Button

Press to access a DVD's Title menu. Details are on page 20.

DISC MENU Button

Press to access a DVD's Disc menu. Details are on page 20.

▼ ▲ ◀ ▶ Buttons

Press to select an item in a menu.

OK Button

Press to acknowledge a menu selection.

STOP/RETURN ■ Button

Press to stop playback.

SLOW REV (reverse) Button

Press to play a Disc backward in slow motion.

PREV (previous) ◀ Button

Press to go to the previous Chapter/Track.

NEXT ▶ Button

Press to go to the next Chapter/Track.

SLOW FWD (forward) Button

Press to play a Disc forward in slow motion.

SEARCH Button

Press to search for a specific Chapter or elapsed playing time. Details are on pages 20 and 22.

PREVIEW Button

Press to preview Video CD Tracks. Details are on page 30.

SOUND MODE Button

Press to choose an audio language or sound mode (STEREO to hear the right and left channels of sound, MONO RIGHT to hear the right channel of sound, or MONO LEFT to hear the left channel of sound).

SOUND 3D Button

This button has no function.

DISPLAY Button

Press repeatedly during playback to see the elapsed or remaining playing time of a Chapter, Title, Track, or Disc.

DVD ⏻ Button

Press to turn on or off the Player.

REPEAT Button

Press to play a Chapter, Title, Track, or Disc repeatedly. Details are on page 24.

REPEAT A-B Button

Press to set up Repeat A-B playback, in which a certain segment of the Track or Title plays repeatedly. Details are on page 24.

CLEAR Button

Press to erase an FTS Program. Details are on page 27.

PROGRAM FTS Button

Press to access Favorite Track Selection. Details are on page 27.

SYSTEM MENU Button

Press to access or remove the Player's System Menu.

PLAY/PAUSE ▶/⏸ Button

Press to start or pause playback.

REV (reverse) ◀◀ Button

Press to search backward during playback. Details are on page 21.

FWD (forward) ▶▶ Button

Press to search forward during playback. Details are on page 21.

SUBTITLE 🗨 Button

Press to select an available subtitle language. Details are on page 25.

ANGLE ↗ Button

Press to select a different camera angle during DVD playback. Multiple angles must be available on the Disc. Details are on page 23.

ZOOM 🔍 Button

Press to enlarge the picture. Details are on page 23.

AUDIO 🗨 Button

Press to select a different language or soundtrack during DVD playback. Multiple languages or soundtracks must be available on the DVD. Details are on page 25.

SPEAKERS/🔊 Button

Press to turn on or off the speakers.

VOLUME +/- Buttons

Press to adjust the speakers' volume.

BASS +/- Buttons

Press to adjust the speakers' bass.

TREBLE +/- Buttons

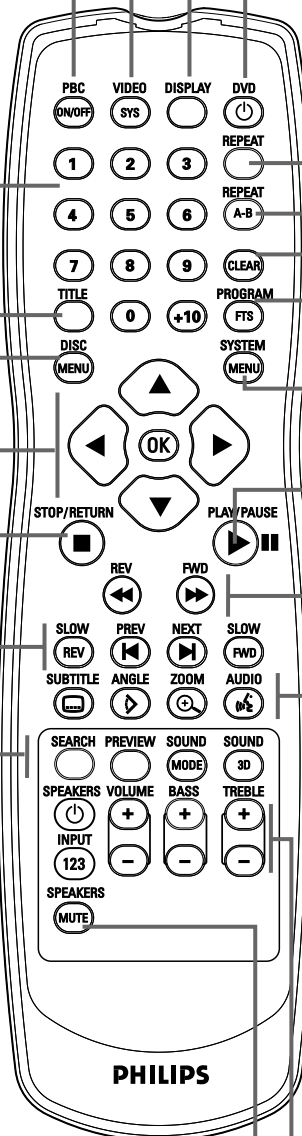
Press to adjust the speakers' treble.

INPUT 1-2-3 Button

Press to choose a sound source or input at the Receiver.

SPEAKERS/MUTE Button

Press to mute the Receiver's speakers.



SPEAKERS/🔊, VOLUME +/-, BASS +/-, TREBLE +/-, INPUT 1-2-3, and SPEAKERS/MUTE only operate certain Philips Receivers that are connected to the Player's MULTI-5.1 jack.

18 Front Panel

POWER Button

Press to turn the Player on or off.


PLAY/PAUSE Button

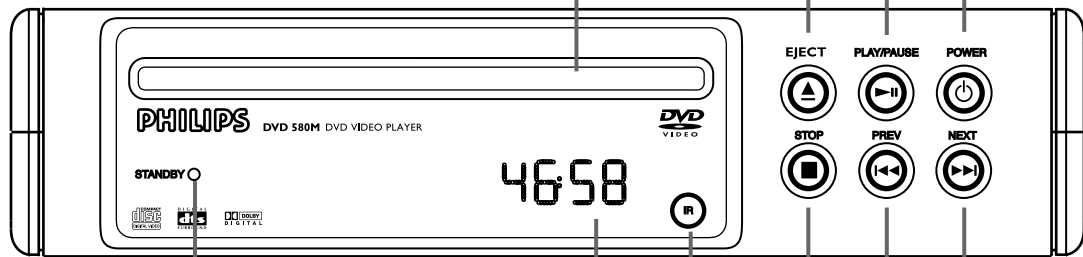
Press to start playing a Disc. Press once during play-back to pause play; press again to resume play.

EJECT Button

Press to remove a Disc from the Player.

Disc Slot

Insert a Disc here. Insert about one-third of the Disc, then the Player will accept the Disc automatically. Do not press the Disc or force the Disc into the Player. If the Player does not automatically accept the Disc, press EJECT  to make sure there is not a Disc already in the Player. Load the Disc with the label facing up (shiny side facing down). If the Disc is two-sided, the side you want to play must face up.



STANDBY light

This light is green when the Player is on. The light is orange when the Player is off.

Display


Current Disc information appears here. Such information may include the elapsed playing time or messages regarding current Player activity.

Remote Sensor (IR or infrared)

Point the Player's remote control here when using the remote to operate the Player.

STOP Button

Press once to stop playback. Play can resume from the same point the next time you start playback.

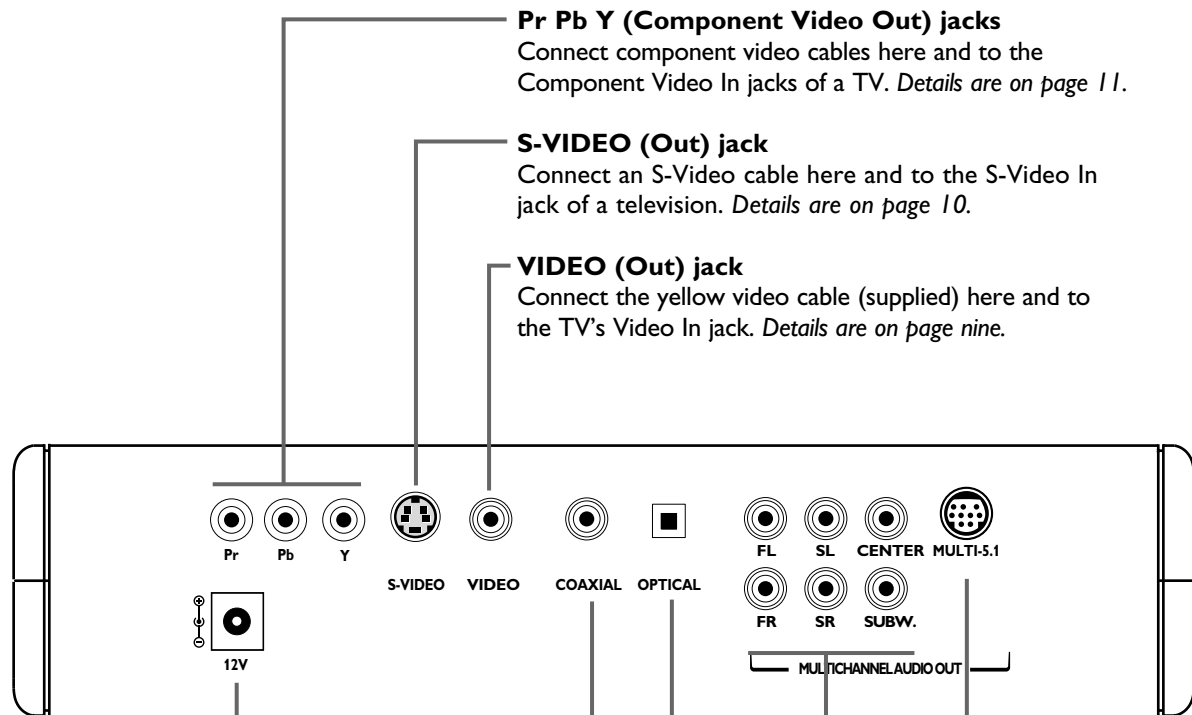
If you press STOP  twice to stop playback, play will resume from the beginning of the Disc the next time you start playback.

PREV (Previous) Button

Press to go to previous Chapters or Tracks.

NEXT Button

Press to move immediately to the next Chapter or Track.



Pr Pb Y (Component Video Out) jacks

Connect component video cables here and to the Component Video In jacks of a TV. *Details are on page 11.*

S-VIDEO (Out) jack

Connect an S-Video cable here and to the S-Video In jack of a television. *Details are on page 10.*

VIDEO (Out) jack

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

12V jack

Connect the supplied power adaptor here, then connect the adaptor's plug to a standard power outlet to supply power to the Player.

COAXIAL (Digital Audio Out) jack

Connect an optional digital audio coaxial cable here and to the Coaxial Digital Audio In jack of a Stereo. *Details are on page 13.*

OPTICAL (Digital Audio Out) jack

Connect an optional digital audio optical cable here and to the Optical Digital Audio In jack of a Stereo. *Details are on page 13.* When the OPTICAL jack is not in use, replace its protective cap.

FL, FR, SL, SR, CENTER, and SUBW. MULTICHANNEL AUDIO OUT jacks

If you have a Multichannel Receiver (one that has connections for six speakers), connect these jacks to the corresponding In jacks on the Receiver. *Details are on page 14.*

Or, connect the FL and FR jacks to the left and right Audio In jacks of a TV or Stereo.

FL is Front Left; FR is Front Right; SL is Surround/Rear Left; SR is Surround/Rear Right; and SUBW. represents Subwoofer.

MULTI-5.1 jack

If you have a Philips Multichannel Receiver, it may have a Multichannel 5.1 Audio In jack. If so, connect the Player's MULTI-5.1 (Out) jack to the appropriate Multichannel 5.1 Audio In jack on the Philips Receiver. Otherwise, you will not use this jack.

Caution

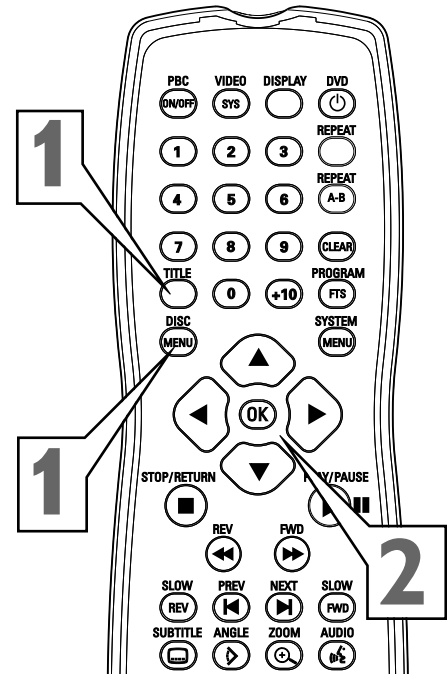
- Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may damage the unit permanently.

20 Title/Disc Menus, Chapter/Track Selection

DVD

Title/Disc Menus

- 1** Press **DISC MENU** to access the main DVD Disc menu. (ROOT MENU may appear in the top left corner of the TV screen briefly.) The menu may list camera angles, spoken language and subtitle options, Chapters for the Title, or other Disc features. **Or, press TITLE** if the current Title of the current DVD has a Title menu. The Title menu will appear on the screen.
- 2** Press **▼ ▲ ◀ ▶** to select items in the menu, then press **OK**. Continue until you set up all the features you want or until you start Disc playback. Although some Disc menus may list a "Play" option, select "Play" and press **OK** on the Player's remote - not **PLAY/PAUSE ▶/||** - to start playback.



DVD

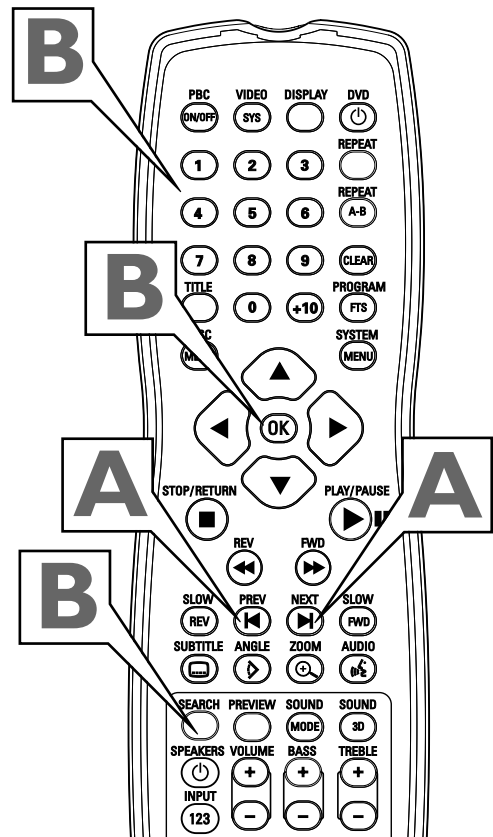
AUDIO CD

VIDEO CD

Chapter/Track Selection

- A** Press **NEXT ▶|** during playback to go to the next Track/Chapter. Press **PREV ◀|**, repeatedly if necessary, to return to the beginning of a previous Track/Chapter.
- B** To skip to a specific DVD Chapter during playback, press **SEARCH**. While the space beside **CHAPTER** is highlighted and within 10 seconds, press the Number buttons to enter the Chapter number you want. Then, press **OK**. The Chapter will start to play immediately. If the desired Chapter is 10 or greater, use the +10 button. For example, to select Chapter 15, press +10, then press 5, then press **OK**.

TITLE 01/03 CHAPTER 015/030



Helpful Hint

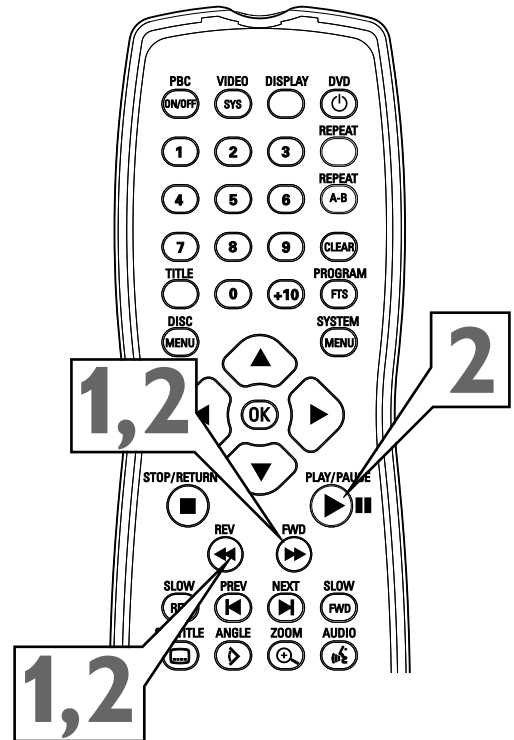
- To change the language of the DVD's Disc menu, see page 26.

Forward and Reverse Searching, Slow Motion 21

DVD AUDIO CD VIDEO CD

Forward and Reverse Searching

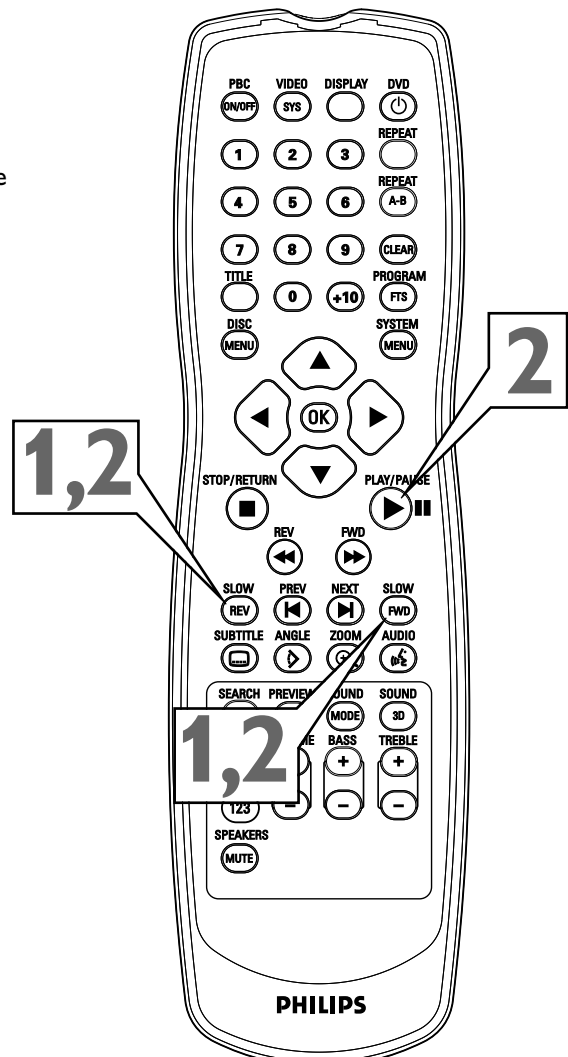
- 1** Press **FWD** ►► to fast forward during playback. Press **FWD** ►► repeatedly to choose **FF 1**, **FF 2**, **FF 3**, or **FF 4**. **FF 1** plays the Disc one time as fast; **FF 2** plays the Disc twice as fast; **FF 3** plays the Disc three times as fast; and **FF 4** plays the Disc four times as fast.
Or, press **REV** ◀◀ for a reverse search during playback. Press **REV** ◀◀ repeatedly to choose **FR 1**, **FR 2**, **FR 3**, or **FR 4**.
- 2** To resume normal playback, either press **PLAY/PAUSE** ►/|| or press **FWD** ►► or **REV** ◀◀ repeatedly until regular play resumes. **PLAY** will appear briefly in the top left corner of the TV screen.



DVD VIDEO CD

Slow Motion

- 1** During playback, press **SLOW FWD** to play the Disc forward in slow motion. Press **SLOW FWD** repeatedly to choose the speed of slow motion you prefer. **SF 1** (slow), **SF 2** (slower), or **SF 3** (slowest) will appear in the top left corner of the TV screen. **SF** represents Slow Forward.
Or, press **SLOW REV** to play the Disc in reverse in slow motion. Press **SLOW REV** repeatedly to choose the speed of slow motion you prefer. **SR 1** (slow), **SR 2** (slower), or **SR 3** (slowest) will appear in the top left corner of the TV screen. **SR** represents Slow Reverse. Slow Reverse is not available on all Discs.
- 2** To resume normal playback speed, either press **PLAY/PAUSE** ►/|| or press **SLOW FWD** or **SLOW REV** repeatedly until regular play resumes. **PLAY** will appear briefly in the top left corner of the TV screen.

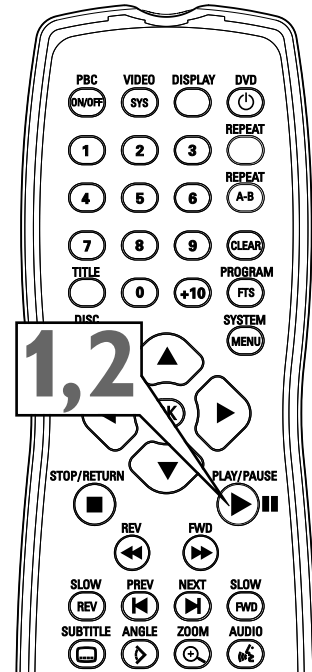


22 Still Picture, Time Search

DVD VIDEO CD

Still Picture

- 1 During playback, press **PLAY/PAUSE** ►/|| on the remote control once. A still picture will appear on the TV screen. PAUSE will appear in the top left corner of the TV screen.
- 2 To resume normal playback, press **PLAY/PAUSE** ►/|| again.



DVD VIDEO CD AUDIO CD

Time Search

Time Search lets you choose a specific elapsed playing time at which you want to resume Disc playback.

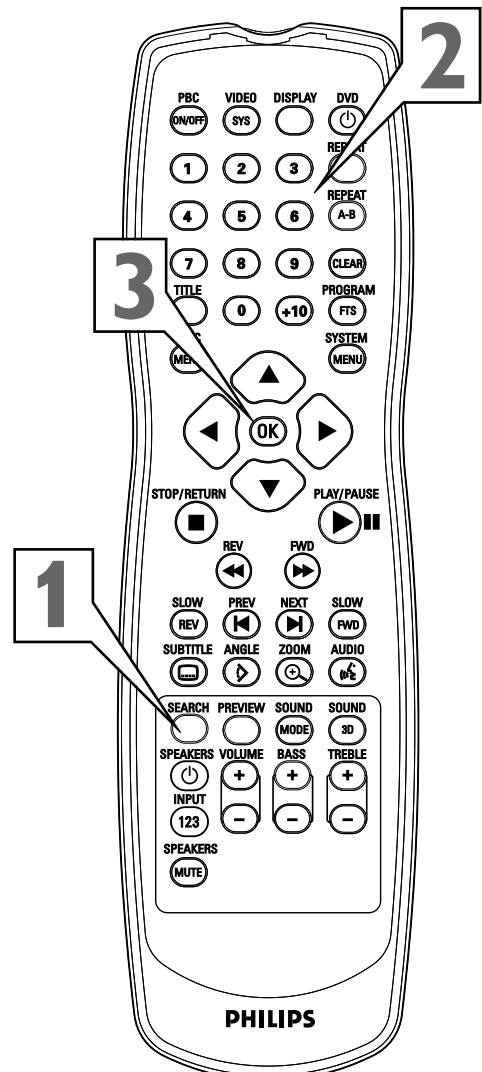
- 1 Press **SEARCH** twice during DVD playback. On a DVD, the current Title number and the total number of Titles available will appear to the left of an empty TIME area.

TITLE 01/03 TIME __:__:__

Or, for a Video CD or Audio CD, press **SEARCH** once. GO TO ---:--- will appear.

GO TO __:__

- 2 Within 10 seconds, press the **Number** buttons to enter the elapsed playing time at which you want to resume playback.
For a DVD, enter the amount of time in hours, minutes, and seconds. The time must be available within the current Title.
For an Audio CD or Video CD, enter a time in minutes and seconds that is within the current Track.
- 3 Press **OK** to start DVD playback. Playback will start at the elapsed playing time you selected.
On an Audio CD or Video CD, you do not have to press OK. The Disc will start playing automatically at the time you specified after you enter the time.





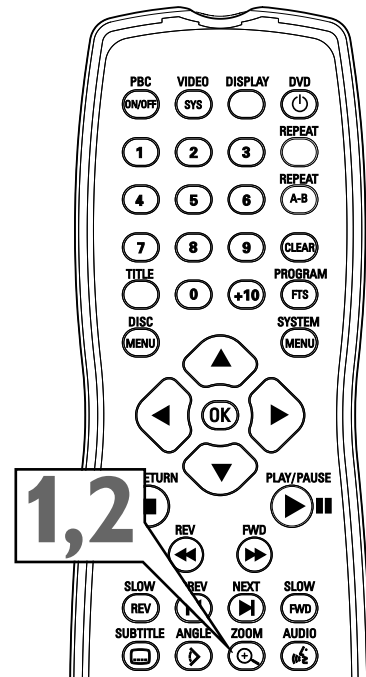
DVD

VIDEO CD

Zoom

Zooming lets you enlarge the video image during playback.




- 1** Press **ZOOM**  repeatedly during playback to select **ZOOM X1.5**, **ZOOM X2**, or **ZOOM X4**. Play will continue as usual, but the picture will be one-and-a-half (**ZOOM X1.5**), twice (**ZOOM X2**), or four times (**ZOOM X4**) as large as usual.
- 2** To return the picture to its normal size, press **ZOOM**  again so **ZOOM OFF** appears briefly in the top left corner of the TV screen.

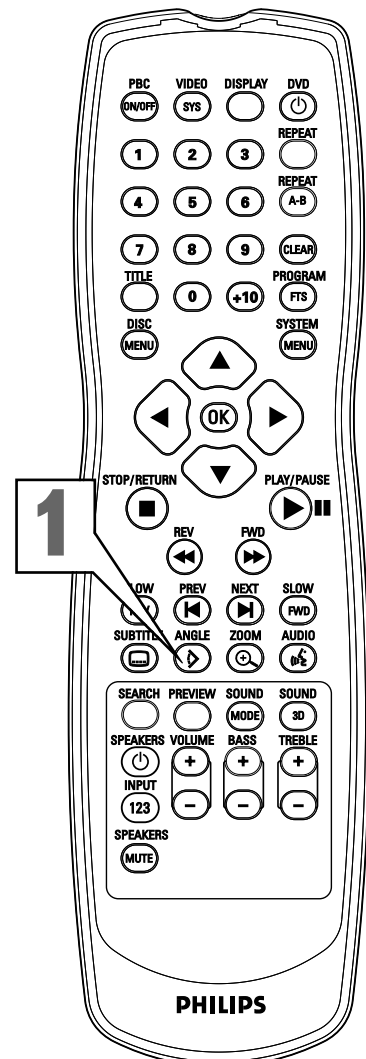


DVD

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 **ANGLE**  repeatedly to choose the angle you want. In a few seconds, playback will change to the selected angle. If different angles are not available during the current scene,  may appear in the top left corner of the TV screen. If **ANGLE MARK** is ON, the Angle Mark appears in the top right corner of the TV screen during playback if multiple angles are available. Press the Number buttons to select a different angle. Or, press **ANGLE**  repeatedly as described earlier. *Angle Mark details are on page 39.*



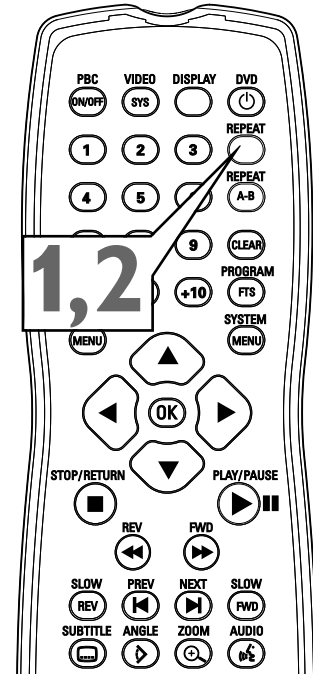
24 Repeat, Repeat A-B

DVD AUDIO CD VIDEO CD

Repeat

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

- 1 During playback, press REPEAT repeatedly to choose a Repeat mode.**
 - To repeat the current Chapter/Track, press REPEAT so CHAPTER REPEAT ON (DVD Chapter) or REP-ONE (Audio CD or Video CD Track) appears in the top left corner of the TV screen.
 - To repeat the current Title (DVD only), press REPEAT again so TITLE REPEAT ON appears in the top left corner of the TV screen.
 - To repeat the entire Disc (Audio CD or Video CD only), press REPEAT again so REP-ALL appears in the top left corner of the TV screen.
- 2 To cancel repeat playback, press REPEAT again so REPEAT OFF appears in the top left corner of the TV screen.**

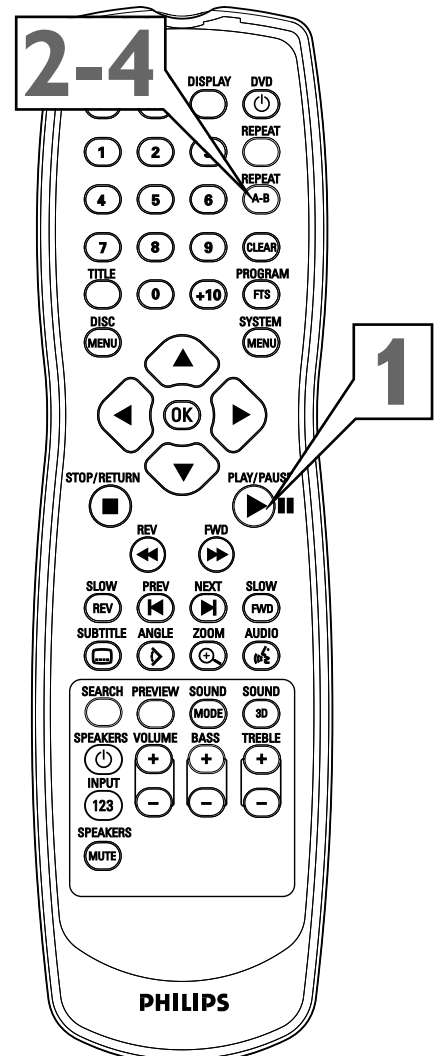


DVD AUDIO CD VIDEO CD

Repeat A-B

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

- 1 Press PLAY/PAUSE ►/|| to start Disc playback.**
- 2 When the Disc reaches the point at which you want repeated playback to begin, press REPEAT A-B.** This sets Point A, or the point at which repeated playback will begin. A TO B SET A will appear in the top left corner of the TV screen.
- 3 When the Disc reaches the point at which you want to end the segment, press REPEAT A-B again.** This sets Point B, or the point at which repeated playback will end. The segment will begin playing repeatedly. A TO B SET B will appear in the top left corner of the TV screen.
- 4 To resume regular playback, press REPEAT A-B again.** Regular playback will resume. A TO B CANCELLED will appear in the top left corner of the TV screen.

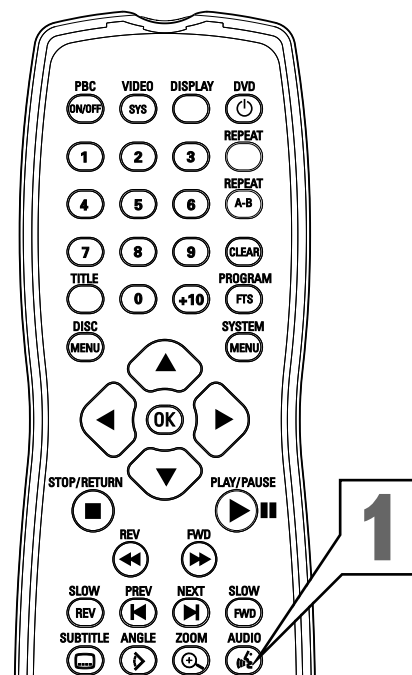


DVD

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 **AUDIO** (🔊) repeatedly. The languages that are available on the DVD will appear at the top of the TV screen. Press **AUDIO** (🔊) repeatedly until you hear the language you prefer.

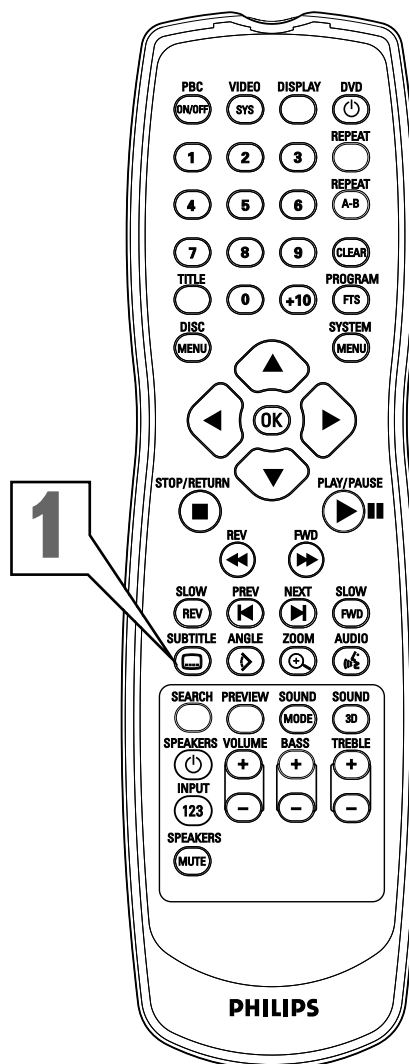


DVD

Subtitles

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

- 1** During DVD playback, press **SUBTITLE** (📄) repeatedly. The languages in which subtitles are available for the current DVD will appear at the top of the TV screen. Press **SUBTITLE** (📄) repeatedly until you see subtitles in the language you prefer.

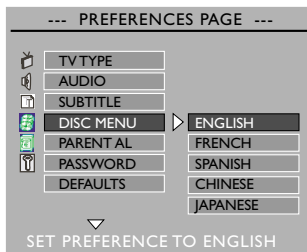


26 Disc Menu Language

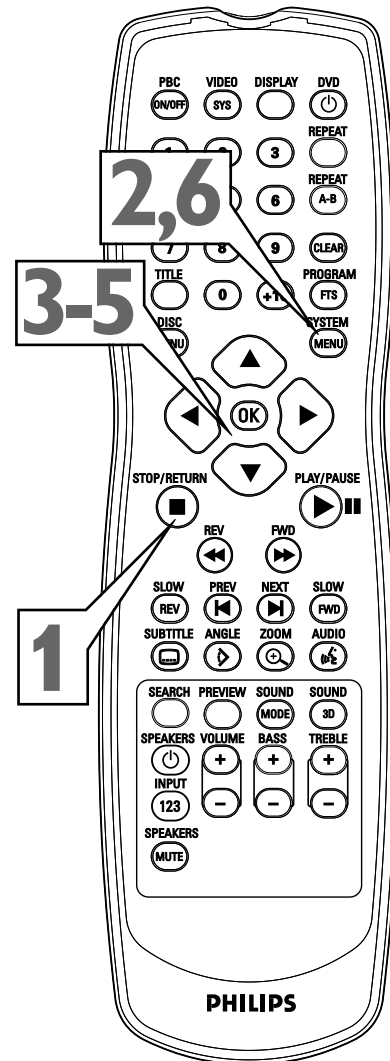
Most DVDs have a Disc menu that appears when you insert the DVD in the Player or when you press DISC MENU on the Player's remote to access the Disc menu. The Player also refers to this as the ROOT MENU of the DVD.

If the DVD maker recorded the Disc menu in different languages, you may be able to see the menu in the other languages by adjusting DISC MENU in the Player's PREFERENCES menu as described below.

- 1** Press **STOP/RETURN** ■ twice to stop playback completely.
- 2** Press **SYSTEM MENU**.
- 3** Press ▼ to select **PREFERENCES**, then press **OK**. You can select PREFERENCES only if you completely stopped playback as directed in step 1.
- 4** Press ▼ to select **DISC MENU**, then press ►.
- 5** Press ▲ or ▼ to choose **ENGLISH, FRENCH, SPANISH, CHINESE, or JAPANESE**, then press **OK**. The Disc menu will appear in the language you selected only if that language is recorded on the DVD. Some DVDs will allow you to change the Disc menu language only in the Disc menu. Check your DVD or its case for details.



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



Favorite Track Selection 27

VIDEO CD

AUDIO CD

Favorite Track Selection (FTS) lets you play Tracks in an order you set up. The order in which you set the Tracks is called a Program.

- 1 While playback is stopped, press **PROGRAM FTS**.

PROGRAM P 00 : 00

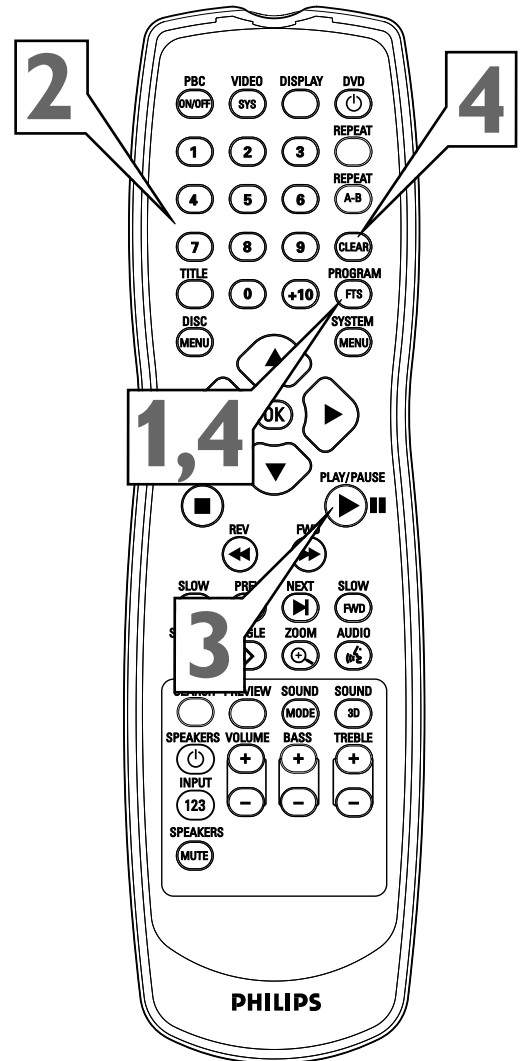
- 2 Press the **Number** buttons to enter the number of the **Track** you want to play first. The Track number will appear to the right of the Program position in which you stored the Track. To enter Track numbers above nine, use the +10 button. For example, to enter Track 18, press +10, then 8. To enter Track 24, press +10 twice, then press 4. Repeat step 2 as often as necessary to enter all the Tracks you want.

PROGRAM P 01 : 24

Program position Track number

- 3 Press **PLAY/PAUSE** ►/|| to start playing the Tracks in the order you set. Play will stop after all the Tracks in the Program have played once.

- 4 The Program will play each time you start playback. To erase the Program so you can play the Tracks in normal order again, press **PROGRAM FTS**, then press **CLEAR**. This erases the Program.



28 Parental Control Password

DVD VIDEO CD

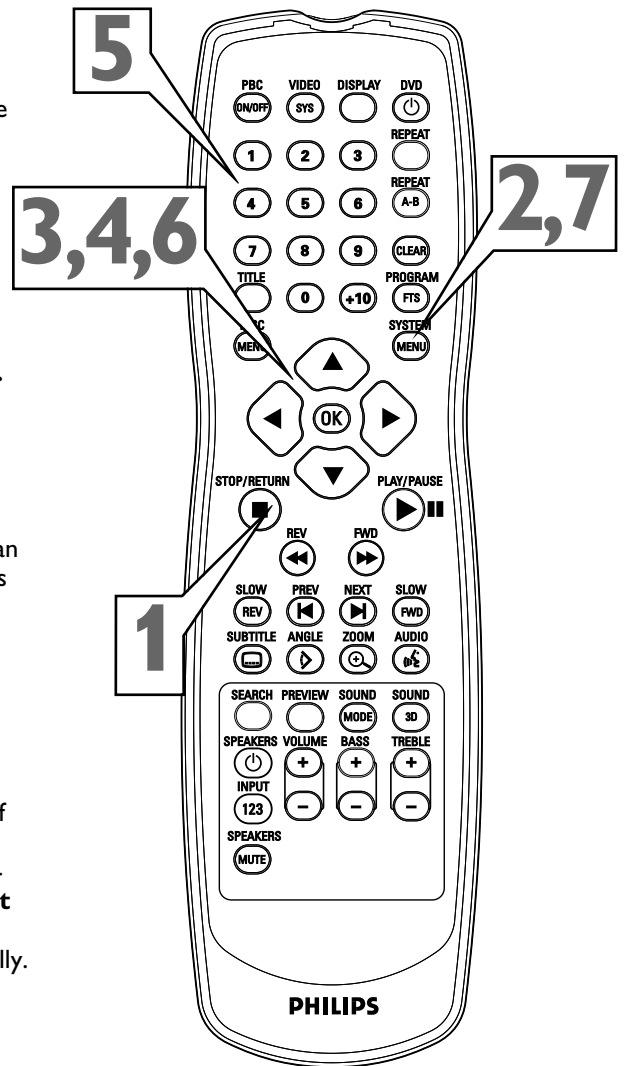
Parental Control limits viewing of Discs that exceed the limits you set. This feature will not limit viewing if the Disc manufacturer did not code the Disc. Philips cannot guarantee the availability of Parental Control with all Discs, and therefore denies any liability associated with unintended watching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

Changing Your Password

- 1** Press **STOP/RETURN** ■ twice to stop playback completely.
- 2** Press **SYSTEM MENU**.
- 3** Press ▼ to select **PREFERENCES**, then press **OK**. You can select **PREFERENCES** only if you completely stopped playback as directed in step 1.
- 4** Press ▼ to select **PASSWORD**, then press ►. **CHANGE** will be highlighted. Press **OK**.
- 5** A box beside **OLD PASSWORD** will be highlighted. Press the **Number** buttons to enter your old four-digit password. (If this is the first time you have set a password or if you do not know the old password, press 3,3,0,8.) The box beside **NEW PASSWORD** will be highlighted automatically. Press the **Number** buttons to enter a new four-digit password of your choice. The box beside **CONFIRM PWD.** will be highlighted automatically. Press the **Number** buttons to enter the same new four-digit password you just entered for the **NEW PASSWORD**.

PASSWORD CHANGE PAGE	
OLD PASSWORD	▶
NEW PASSWORD	
CONFIRM PWD	
PLEASE ENTER OLD PASSWORD	

- 6** Press **OK** to save the new password.
- 7** Press **SYSTEM MENU** to remove the menus.

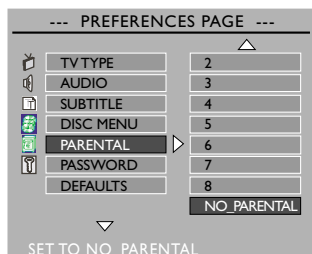


Helpful Hints

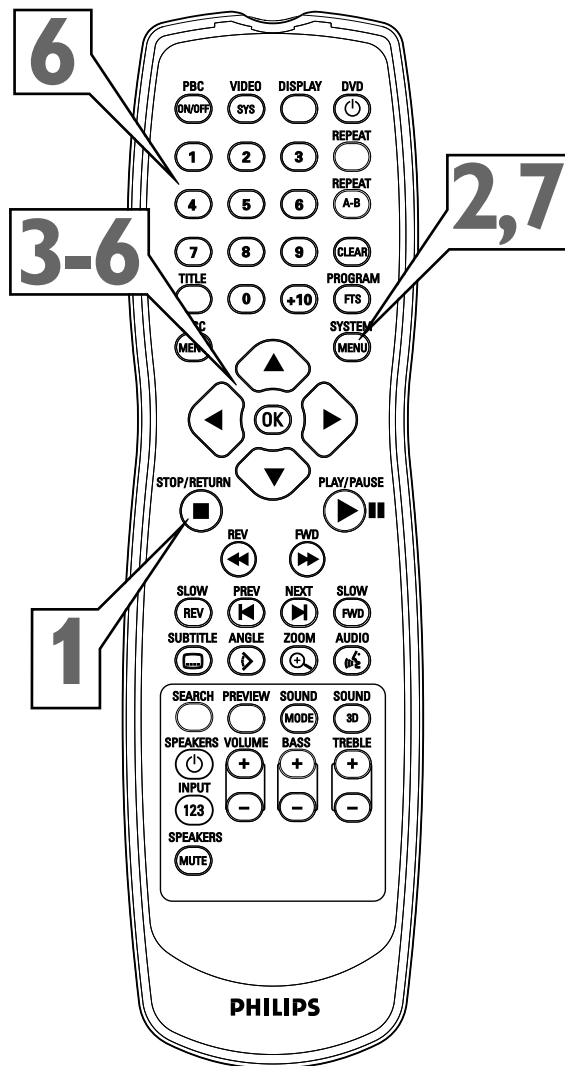
- The factory preset password is 3308. Use it to play a locked Disc or enter it as the old password. The 3308 password is acceptable even after you set your own personal password.
- An "X" will appear on the screen instead of the password number to protect the identity of the password.
- Lock/unlock each side of two-sided DVDs and each volume of multi-volume Video CDs.
- When you try to play a locked Disc, **PARENTAL VIOLATION** may appear in the top left corner of the TV screen. Follow the Disc's instructions to enter your password and play the Disc. **INPUT PASSWD** may appear when it is time to enter your four-digit password.

Some DVD and Video CD makers code the DVD/Video CD so it will only play according to the level you set at the Player. The Parental Control level may apply to the complete Disc or to certain scenes on the Disc. Follow the steps below to set the Parental Level at which you want Discs to play.

- 1** Press **STOP/RETURN** ■ twice to stop playback completely.
- 2** Press **SYSTEM MENU**.
- 3** Press ▼ to select **PREFERENCES**, then press **OK**. You can select PREFERENCES only if you completely stopped playback as directed in step 1.
- 4** Press ▼ to select **PARENTAL**, then press ►.
- 5** Press ▲ or ▼ to select a Parental Control Level (1-8), then press **OK**. Or, select **NO_PARENTAL** to completely turn off the Parental Controls. All DVDs will play, regardless of their rating, without you having to enter your password.



- 6** Press the Number buttons to enter your four-digit password as requested, then press **OK**.
- 7** Press **SYSTEM MENU** to remove the menus.



RATING EXPLANATIONS

The rating numbers (1-8) compare to U.S. movie ratings as follows:

- 8 - ADULT - Mature material; should be viewed only by adults due to graphic sexual material, violence, or language.
- 7 - NC-17 - No children under age 17; not recommended viewing for children under age 17.
- 6 - R - Restricted; recommended that parents restrict children under age 17 from viewing or allow children to view only when supervised by a parent or adult guardian.
- 4 - PG 13 - Material is unsuitable for children under age 13.
- 3 - PG - Parental Guidance suggested.
- 1 - G - General Audience; recommended as acceptable for viewers of all ages.

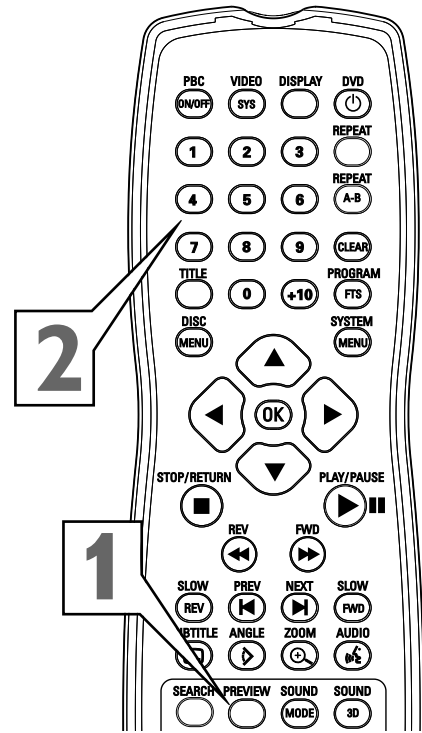
30 Preview, Playback Control

VIDEO CD

Preview

Some Video CDs or Super Video CDs may contain preview or introductory information. Preview will be useful when you want to go directly to a Track but cannot remember the Track number of the segment you are seeking.

- 1** While playback is stopped, press **PREVIEW**.
- 2** A small picture representing the beginning of each Track will appear on the TV screen. A maximum of nine Track pictures can appear on the screen at once.
When you see the Track you want to play, press the Number button for that Track. That Track will start playing immediately.

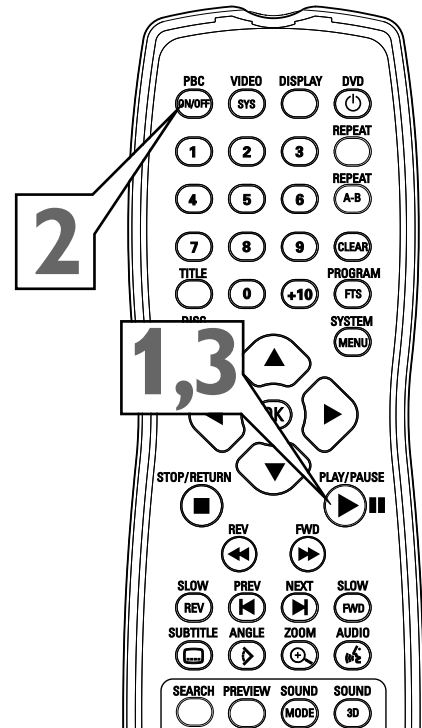


VIDEO CD

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 **PLAY/PAUSE ►/||**. The Video CD will show instructions or options on the TV screen. Use the Player's remote control buttons as directed by the Video CD.
- 2** Press **PBC ON/OFF** to turn Playback Control on or off.
- 3** Press **PLAY/PAUSE ►/||** to start playback.



Helpful Hint

- If a Video CD will not play, turn off Playback Control, then try the Video CD again.

MP3 is a compression method that makes digital music files up to 10 times smaller without losing significant sound quality. MP3 is common on the Internet, letting you transfer Tracks to your computer and onto a CD Recordable or CD Rewritable disc. Materials and equipment with which to make MP3 recordings are not supplied with this Player. MP3 Tracks are recorded at a certain bit rate or speed. Slower bit rates (32 kbps or 64 kbps) let you record more using less Disc space, but have the lowest sound quality. Faster bit rates (256 kbps or 320 kbps) provide better sound quality but use a lot of Disc space. The average bit rates (96 kbps or 128 kbps) provide CD-like quality and are most recommended. Keep these characteristics in mind when making Discs that you intend to play on this Player.

This Player supports the following characteristics of MP3 files:

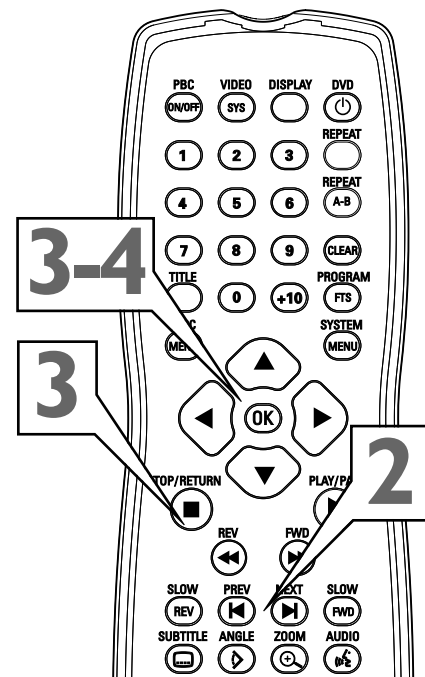
- File or Track names ending in .mp3
- Names of Albums, Artists, etc., with a maximum of 30 characters
- Maximum nested directory of eight levels
- Sampling frequencies: 32 kHz, 44.1 kHz, 48 kHz
- Bit-rates: 32-256 kbps
- The first session of multisession discs

The following characteristics are not supported:

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

MP3 Features

- 1** When you insert a Disc with MP3 files, the Tracks and Albums (or Folders) available for playback will appear on the screen. It may take the Player several seconds to recognize the Disc.
- 2** During playback, press **NEXT** **▶** or **PREV** **◀** to move to different Tracks. MP3 will appear on the Player's display panel during playback.
- 3** Press **STOP/RETURN** **■** to stop playback. When playback is stopped, press **▼** or **▲** to select a Track or Folder. Press **OK** to open a Folder or to start playing a Track.
- 4** When playback is stopped, press **◀** or **▶** to select the **PLAY MODE** options at the bottom of the screen. Press **▼** or **▲** to choose **FOLDER**, **REP-ONE**, **DISC REP**, or **DISC SCAN**.
 - Select **FOLDER** to play Tracks in normal order. Leave **PLAY MODE** set to **FOLDER** for normal playback.
 - Select **REP-ONE** (repeat one) to play a Track repeatedly.
 - Select **DISC REP** (Disc repeat) to play the Disc repeatedly.
 - Select **DISC SCAN** to hear the first 10 seconds of each Track on the Disc.Then, press **◀** or **▶** to return to the Track list. Press **▼** or **▲** to select a Track or Folder. Press **OK** to open a Folder or to start playing a Track.

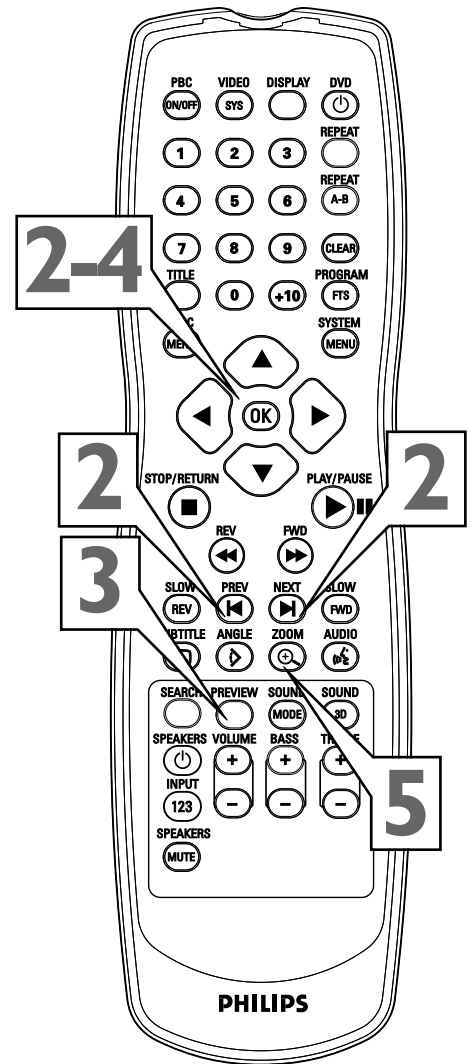


32 JPEG Playback

Some CD-Rs may contain pictures in a JPEG format. For example, you may have photographic film developed by a retailer that places the pictures on a CD-R for you. These pictures may be in JPEG format. You cannot make or record such CD-Rs using this Player. See your computer manual for details on making CD-R recordings.

If you are playing a CD-R on this Player and the CD-R contains JPEG files, you may want to use some of the JPEG features described below.

- 1** When you insert a Disc with JPEG files, the files or pictures available for playback will be listed on the screen.
- 2** Press **▼ ▲ ◀ ▶** and **OK** to select a JPEG image to view.
Or, during playback, press **NEXT ▶|** or **PREV ◀|** to move to different JPEG images.
After you open one JPEG picture, each subsequent file will appear automatically for five seconds. To keep the JPEG image on the screen longer, press **PLAY/PAUSE ▶/||** to pause the image.
- 3** Press **PREVIEW** during JPEG file playback to see up to nine miniature pictures, each representing a JPEG image.
The file you were viewing when you pressed **PREVIEW** will appear in the first box. To play a specific JPEG file from the Preview screen, press **▼ ▲ ◀ ▶** to select a file, then press **OK**.
- 4** Press **▼ ▲ ◀ ▶** to rotate or flip an image during playback (if Zoom is off).
- 5** Press **ZOOM ⊕** to enlarge an image during playback.
Press **REV ◀◀** to reduce the picture's size or press **FWD ▶▶** to enlarge the image. Press **ZOOM ⊕** again to turn off Zoom.



TV Type (NTSC/PAL)

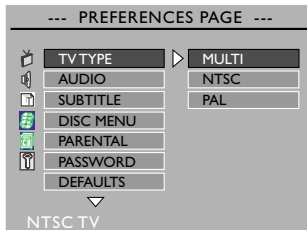
DVDs are recorded according to a Color System, the most common of which are NTSC and PAL. NTSC is the most common in the United States. Your TV also operates according to a Color System.

This Player is compatible with NTSC and PAL. However, in order for a DVD to play on this Player, the Color System of the DVD, the TV, and the Player should match. If all three are not the same, the DVD may play in only black and white, the picture may roll continuously, or the picture may appear distorted.

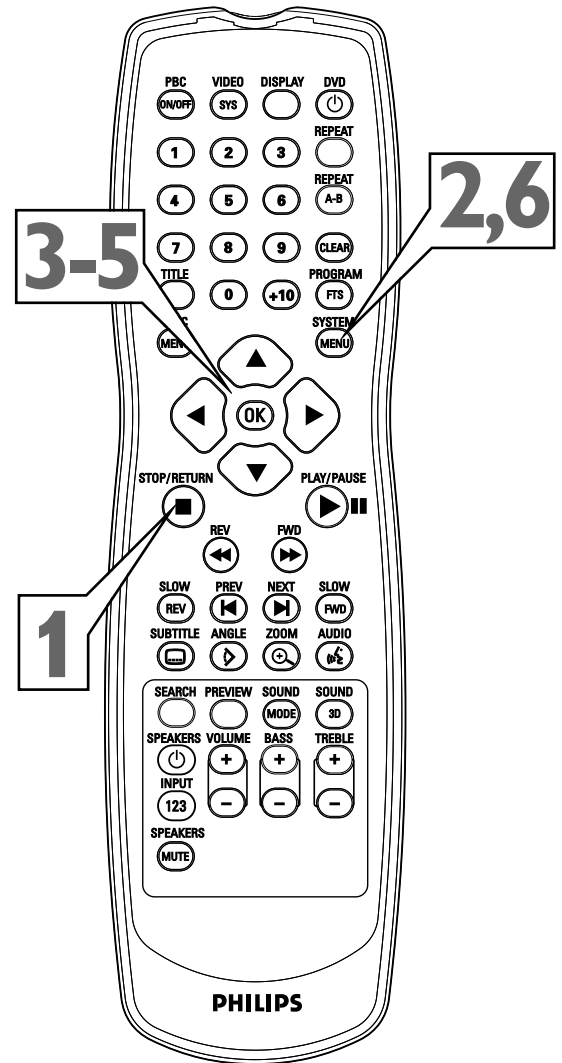
The TV TYPE feature allows you to set the Player to match the Color Systems of your DVD and your TV.

The simplest way to change the TV Type or Color System is to press VIDEO SYS repeatedly while playback is stopped until MULTI, NTSC, or PAL appears on the TV screen.

- 1** Press **STOP/RETURN** ■ twice to stop playback completely.
- 2** Press **SYSTEM MENU**.
- 3** Press ▼ to select **PREFERENCES**, then press **OK**. You can select PREFERENCES only if you completely stopped playback as directed in step 1.
- 4** TV TYPE will be selected. Press ►.
- 5** Press ▲ or ▼ to choose **MULTI, NTSC, or PAL**, then press **OK**. Choose MULTI if your TV is compatible with both NTSC and PAL and you want the Player to automatically select the Color System of the current DVD. Choose NTSC if your TV is NTSC-compatible and your DVDs are recorded in NTSC. Choose PAL if your TV is PAL-compatible and your DVDs are recorded in PAL.



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



34 TV Display

You may set the Player to display video in one of three formats: Letterbox, Pan & Scan, or Wide. The TV Display you select must be available on the DVD. If not, the TV Display setting will not affect the picture.

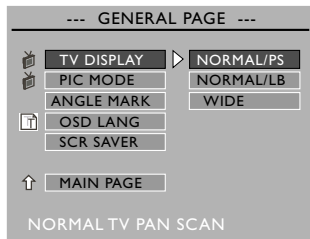
1 Press **SYSTEM MENU**.

2 GENERAL SETUP will be selected. Press **OK**.

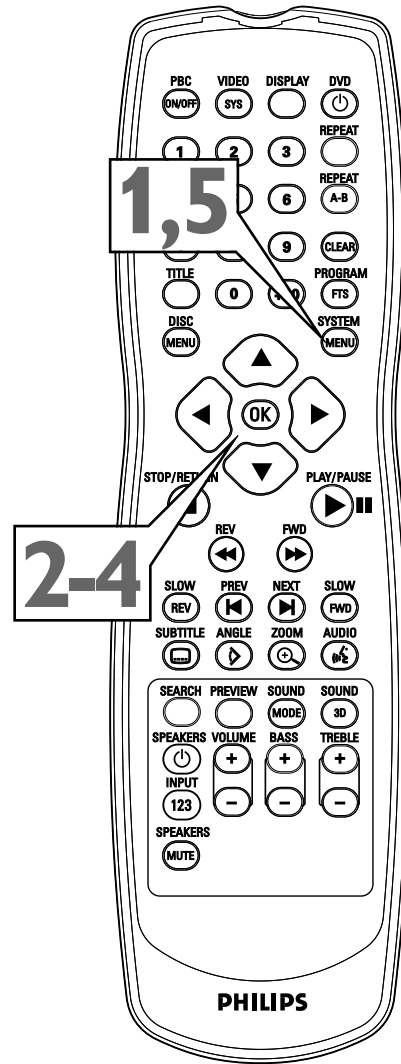
3 TV DISPLAY will be selected. Press **▶**.

4 Press **▲** or **▼** to select **NORMAL/PS**, **NORMAL/LB**, or **WIDE**, then press **OK**.

- Select **NORMAL/PS** (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. Check the DVD case for details.
- Select **NORMAL/LB** (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. The DVD case may say the DVD is in Letterbox or Widescreen format.
- Select **WIDE** if you have a widescreen TV.



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



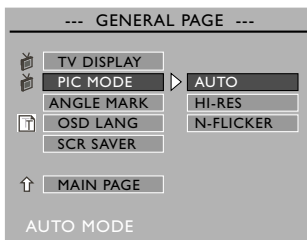
Helpful Hint

- Some widescreen TVs may show only part of the Player's System Menu. This is not an error of the Player settings. Adjust the screen mode on your TV. See your TV owner's manual for details.

Picture Mode

Improve the clarity and stillness of the Player's picture by adjusting Picture Mode (PIC MODE).

- 1 Press **SYSTEM MENU**.
- 2 GENERAL SETUP will be selected. Press **OK**.
- 3 Press **▼** to select **PIC MODE**, then press **▶**.
- 4 Press **▲** or **▼** to choose **AUTO**, **HI-RES**, or **N-FLICKER**, then press **OK**. Choose Auto to have images appear according to their standard settings. Choose Hi-Res (High Resolution) to sharpen the images to a high quality. Choose N-Flicker (no-flicker) to steady or still the picture.



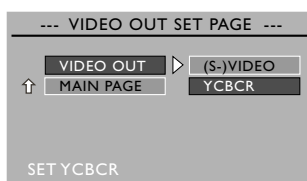
- 5 Press **SYSTEM MENU** to remove the menus.

Video Out

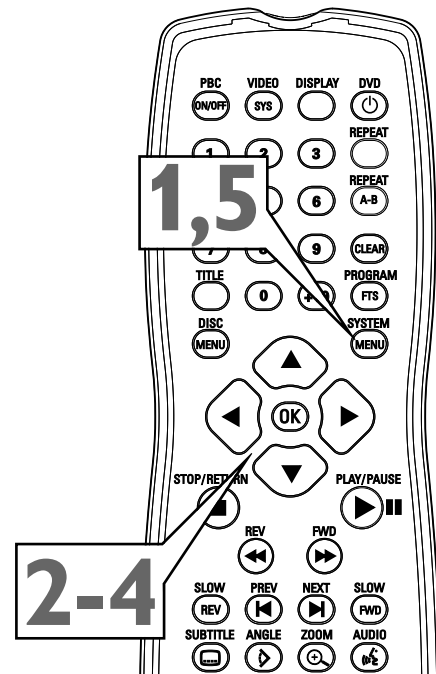
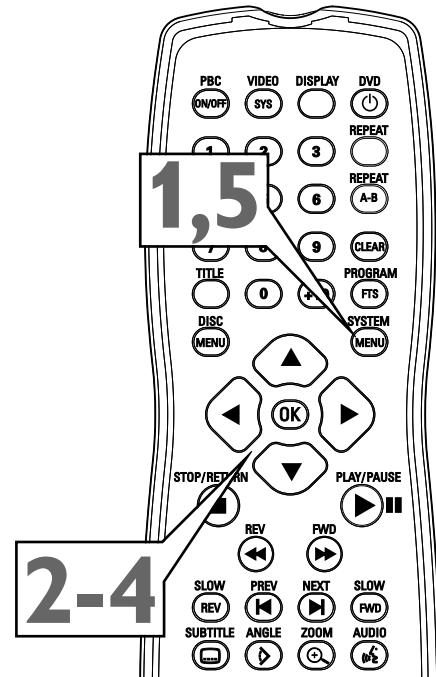
If you used S-Video or Component Video (Pr Pb Y) connections as described on pages 10-11, set VIDEO OUT to (S-)VIDEO or YCBCR (for Component Video) by following the steps below.

You only need one video connection between the TV and the Player. You cannot use S-Video and Component Video at the same time. If you used the yellow VIDEO (Out) jack on the Player to connect the Player to the TV, you do not need to adjust VIDEO OUT.

- 1 Press **SYSTEM MENU**.
- 2 Press **▼** to select **VIDEO OUT SETUP**, then press **OK**.
- 3 VIDEO OUT will be selected. Press **▶**.
- 4 Press **▼** or **▲** to select **(S-)VIDEO** or **YCBCR**, then press **OK**. Choose (S-)VIDEO if you connected the Player's S-VIDEO jack to the TV's S-Video In jack as described on page 10. Choose YCBCR if you connected the Player's Pr Pb Y jacks to your TV's Component Video In jacks as described on page 11.



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



Helpful Hints

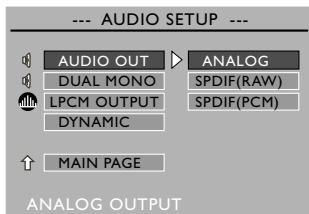
- On the TV, the Component Video In jacks may be labeled YUV or Pr/Cr Pb/Cb Y and may be red, blue, and green. Cb is similar to Pb. "B" refers to the blue part of the video. Cr is similar to Pr. "R" refers to the red part of the video.

36 Audio Out, LPCM Output

Audio Out

Adjust the AUDIO OUT setting according to how you connected the Player to your TV or Stereo.

- 1 Press **SYSTEM MENU**.
- 2 Press **▼** to select **AUDIO SETUP**, then press **OK**.
- 3 **AUDIO OUT** will be selected. Press **▶**.
- 4 Press **▲** or **▼** to select **ANALOG**, **SPDIF (RAW)**, or **SPDIF (PCM)**, then press **OK**.
 - Choose **ANALOG** if you used the Player's FL (front left, white) and FR (front right, red) jacks to connect to the TV, Stereo, or Receiver.
 - Choose **SPDIF (RAW)** if you connected to a Stereo using the Player's **COAXIAL** or **OPTICAL** Digital Audio Out jacks. This selects the original settings as received by most Stereos. If the sound is distorted, your Stereo may need to receive audio in the PCM (Pulse Code Modulation) format.
 - Choose **SPDIF (PCM)** if you connected to a Stereo using the Player's **COAXIAL** or **OPTICAL** Digital Audio Out jacks and your Stereo is PCM-compatible. Refer to your Stereo owner's manual for details.



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

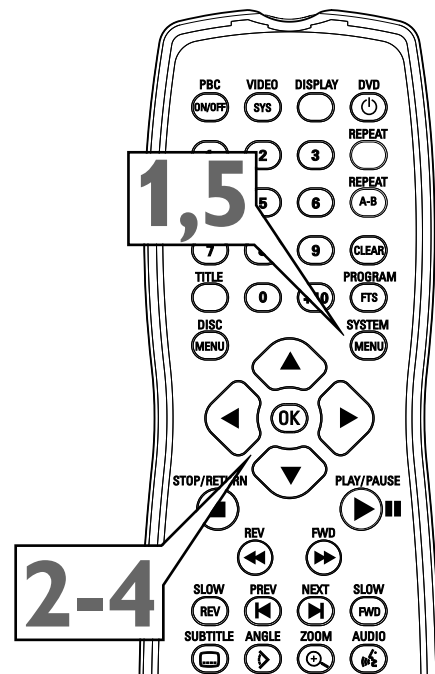
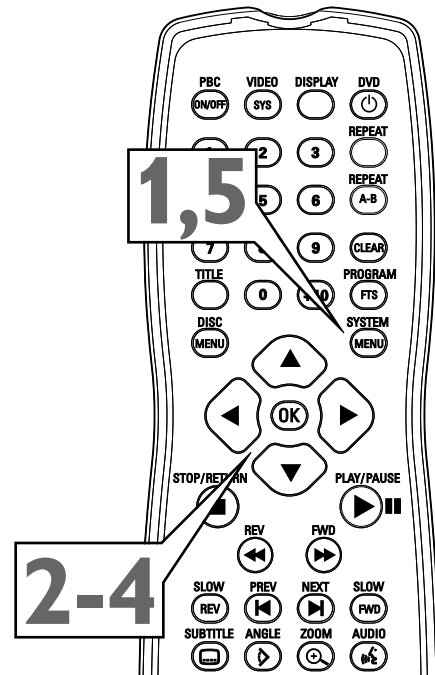
LPCM Output

Discs are recorded in a certain sampling rate. The higher the sampling rate, the better the sound quality. Some Discs are recorded in a high sampling rate of 96 KHz, while most are recorded at 48 KHz. You need to adjust **LPCM OUTPUT** only if you used the **COAXIAL** or **OPTICAL** Digital Audio Out jacks of the Player.

- 1 Press **SYSTEM MENU**.
- 2 Press **▼** to choose **AUDIO SETUP**, then press **OK**.
- 3 Press **▼** to select **LPCM OUTPUT**, then press **▶**.
- 4 Press **▲** or **▼** to select **LPCM 48K** or **LPCM 96K**, then press **OK**. Select **LPCM 96K** if you are playing a Disc recorded in PCM (Pulse Code Modulation) 96 KHz. Otherwise, select **LPCM 48K**.



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



Helpful Hints

- If you set **LPCM OUTPUT** to **LPCM 96K**, the sound may be mute if the Disc is copyright protected by the Content Scrambling System (CSS).
- **SPDIF** is the Sony Philips Digital Interface, or a method of transferring digital audio.

Dual Mono, Dynamic Range Compression 37

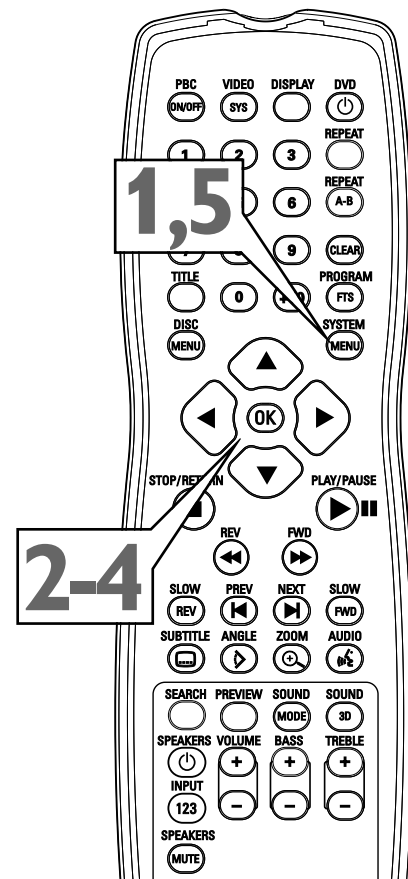
Dual Mono

Adjust DUAL MONO to choose whether you want to hear sound from the Disc's left or right audio channel or both.

- 1 Press **SYSTEM MENU**.
- 2 Press **▼** to select **AUDIO SETUP**. Press **OK**.
- 3 Press **▼** to select **DUAL MONO**. Press **▶**.
- 4 Press **▲** or **▼** to select **STEREO**, **L-MONO**, **R-MONO**, or **MIX-MONO**, then press **OK**.
 - Select Stereo to hear normal two-channel Stereo.
 - Select L-MONO to hear only the left channel.
 - Select R-MONO to hear only the right channel.
 - Select MIX-MONO to combine the sounds available on an Audio CD. For example, when playing a karaoke Disc, choose MIX-MONO to hear both vocals and music.



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

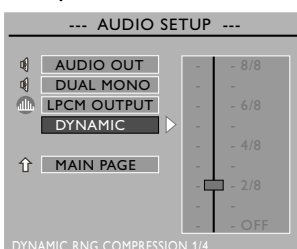


Dynamic Range Compression

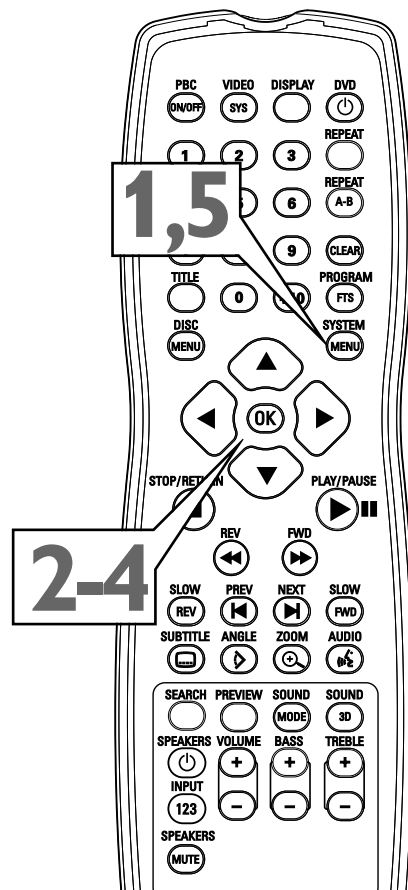
Dynamic Range Compression reduces sudden volume changes by letting you adjust the difference between soft and loud sounds.

- 1 Press **SYSTEM MENU**.
- 2 Press **▼** to select **AUDIO SETUP**. Press **OK**.
- 3 Press **▼** to select **DYNAMIC**. Press **▶**.
- 4 Press **▲** or **▼** to set **Dynamic Range Compression** to **1/8** through **8/8** or to turn it **OFF**, then press **OK**.

To hear the full range of sounds as recorded, choose **OFF** or a lower ratio such as **1/8** or **2/8**. To minimize the difference in volume between loud segments (such as explosions or car chases) and quiet scenes, choose a higher ratio such as **6/8** or **8/8**.



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



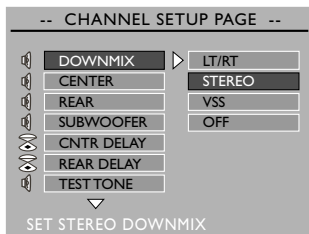
38 Speaker Channel Setup

CHANNEL SETUP lets you select a surround sound effect or adjust the speakers you connected to the Player.

If you connected the Player to a TV only or to a Stereo that is not Dolby Digital or DTS compatible, adjust the DOWNMIX setting to achieve a surround sound effect without having six speakers connected to the Player.

If you connected the Player to a Multichannel Receiver (six-channel) as described on page 14, adjust the individual speakers.

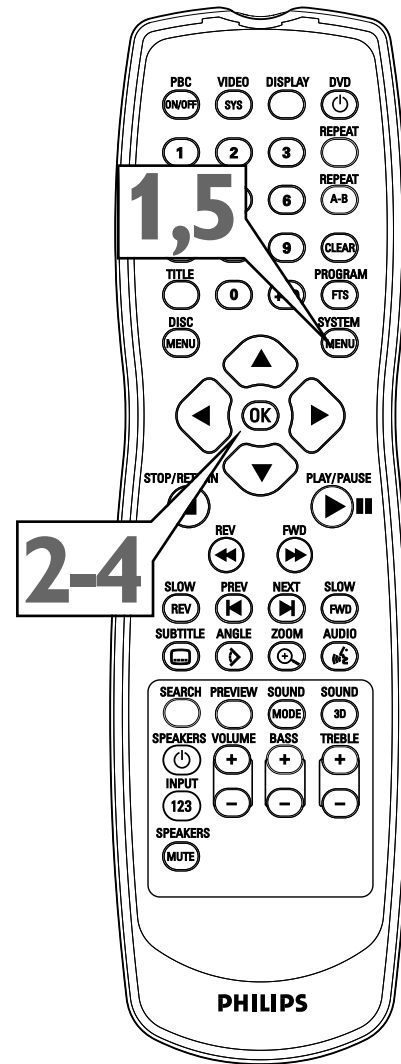
- 1 Press **SYSTEM MENU**.
- 2 Press **▼** to select **CHANNEL SETUP**, then press **OK**.
- 3 Press **▲** or **▼** to select **DOWNMIX** (if you did not connect the Player to a Multichannel Receiver) or to select the speaker setting you want to adjust, then press **▶**. You can select a speaker setting only if DOWNMIX is OFF.
- 4 Press **▲▼** to choose a setting for the selected item, then press **OK**.



The following settings are available for each item:

- **DOWNMIX:** LT/RT, STEREO, VSS, or OFF.
 - Choose LT/RT (left/right) if the Player is connected to a Stereo that has a Dolby Pro Logic decoder.
 - Choose STEREO if you connected the Player to a Stereo, but the Stereo is not Dolby Digital or DTS compatible. The Player will provide a Dolby Digital or DTS surround sound effect.
 - Choose VSS (Virtual Surround Sound) if you connected the Player to a TV only and want the Player to provide a virtual surround sound effect.
 - Choose OFF to disable all the DOWNMIX or surround sound effect settings.
- **CENTER:** Choose ON to hear sound from the center speaker. To disable sound from the center speaker, choose OFF.
- **REAR:** Choose ON to hear sound from the rear/surround speakers. To disable sound from these speakers, choose OFF.
- **SUBWOOFER:** Choose ON to hear sound from the subwoofer. To disable the subwoofer sound, choose OFF.
- **CNTR DELAY** (center delay): Choose a delay time for the Center speaker in milliseconds (1-5 milliseconds), or select OFF for no speaker delay.
- **REAR DELAY:** Choose a delay time for the Rear/Surround speakers in milliseconds (3-15 milliseconds in three second increments), or select OFF for no speaker delay.
- **TEST TONE:** Select ON to check your speakers. If all the speakers are connected correctly, you should hear a "hissing" sound from each speaker during the test. Choose OFF when you want to stop testing the speakers. (Make sure the volume is not muted at the Receiver. If the volume is muted, you will not hear the test tone through the speakers.)

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



Helpful Hint


- Your Receiver may refer to the Surround speakers as the Rear speakers. These are the same.

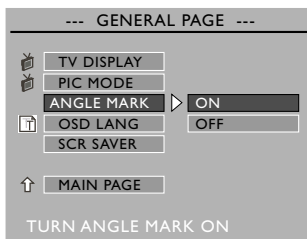
When a DVD has scenes recorded from different angles, the Angle Mark will appear on the TV screen during a multi-angle scene. You can choose whether or not you want the Angle Mark to be visible by turning ANGLE MARK ON or OFF as described below.



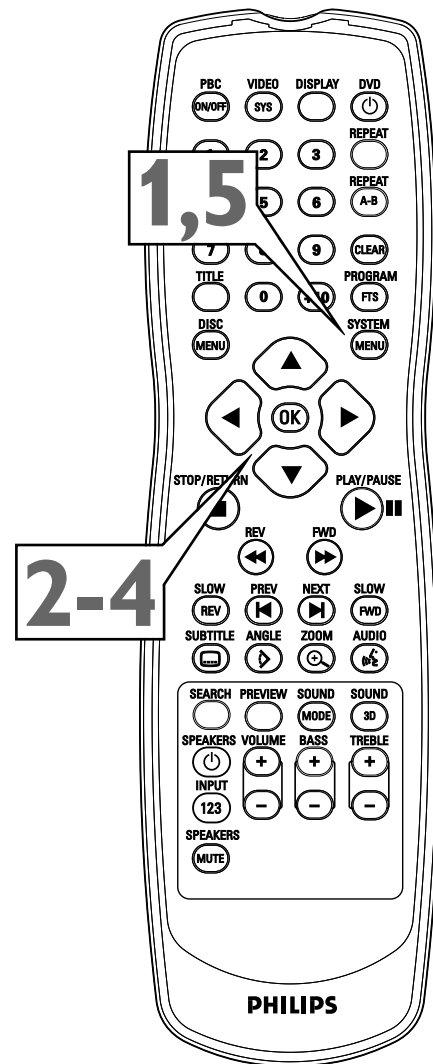
Angle Mark example

Current Angle 3 of total 5 available

- 1 Press SYSTEM MENU.**
- GENERAL SETUP will be selected. **Press OK.**
- Press ▼ to select ANGLE MARK, then press ►.**
- Press ▲ or ▼ to select ON or OFF, then press OK.**
If you set ANGLE MARK to ON, the Angle Mark will appear during playback of a scene that has been recorded from different angles. Press ANGLE  on the remote to watch the scene from a different viewpoint. *Details are on page 23.*
Set ANGLE MARK to OFF if you do not want the Angle Mark to appear on the TV during scenes that have multiple angles available.



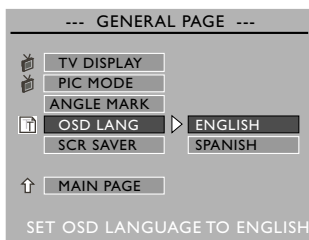
- 5 Press SYSTEM MENU to remove the menus.**



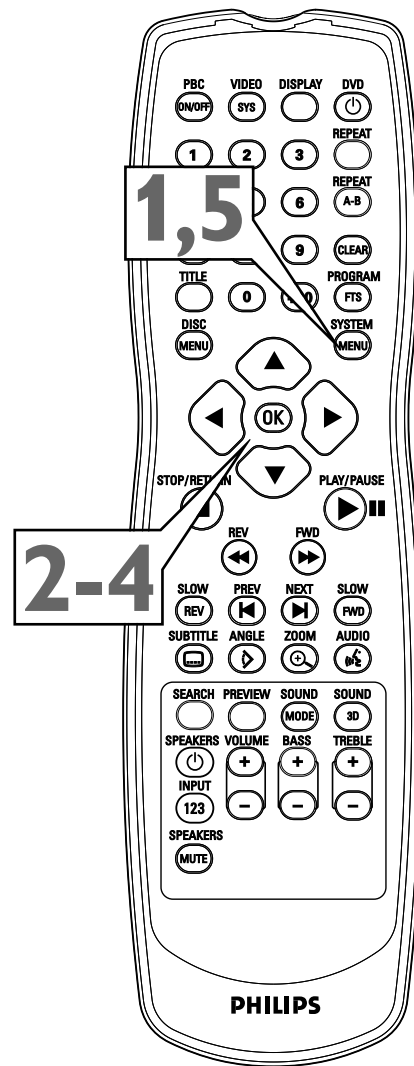
40 On-Screen Display Language

The Player's System Menu is the menu you access when you press SYSTEM MENU on the remote control. This is the menu in which you set up many of the Player's features. The menu is available in English or Spanish only. To change the language of the menu to English or Spanish, follow these steps.

- 1 Press **SYSTEM MENU**.
- 2 GENERAL SETUP will be selected. Press **OK**.
- 3 Press **▼** to select **OSD LANG** (on-screen display language), then press **▶**.
- 4 Press **▲** or **▼** to select **ENGLISH** or **SPANISH**, then press **OK**. English and Spanish are the only two languages available for the Player's System Menu.



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



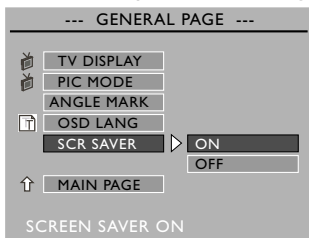
Helpful Hints

- If you accidentally set the Player's System Menu language to Spanish and need English:
 - 1) Press **SYSTEM MENU**. The top line will be selected. Press **OK**.
 - 2) Press **▼** repeatedly to select the fourth line in the menu, then press **▶**.
 - 3) Press **▲** to choose the top item (**ENGLISH**) then press **OK**. The menus should change to English.
 - 4) Press **SYSTEM MENU** to remove the menus.

Screen Saver

The Screen Saver is the moving DVD logo that appears on your TV screen when Disc playback is stopped or you have not used the Player or its remote. The screen saver prevents damage to your TV screen caused by leaving a still image on the TV too long.

- 1** Press **SYSTEM MENU**.
- 2** GENERAL SETUP will be selected. Press **OK**.
- 3** Press **▼** to select **SCR SAVER** (screen saver), then press **►**.
- 4** Press **▲** or **▼** to select **ON** or **OFF**, then press **OK**.
If you choose **ON**, the moving DVD logo will appear after five minutes of not using the Player. Then, after an additional five minutes, the Player will turn itself off automatically.
If you choose **OFF**, the Player will shut itself off after 10 minutes of no use. However, the moving DVD logo will not appear during the five minutes prior to shutting off.

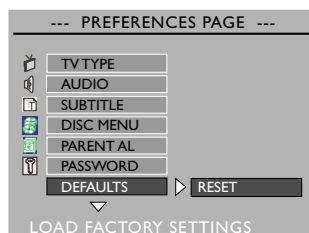


- 5** Press **SYSTEM MENU** to remove the menus.

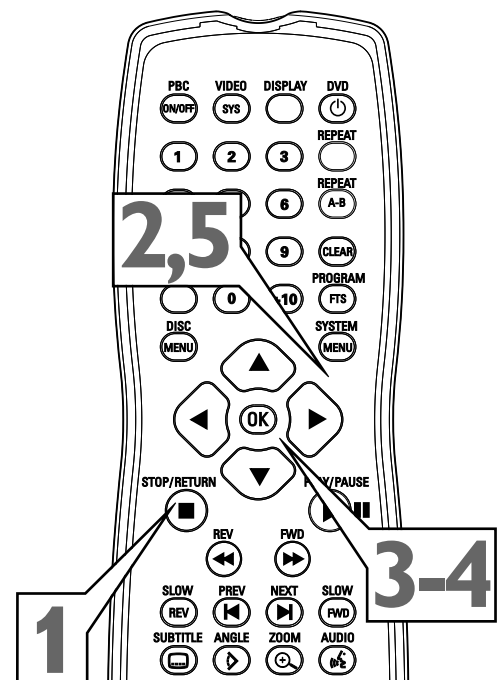
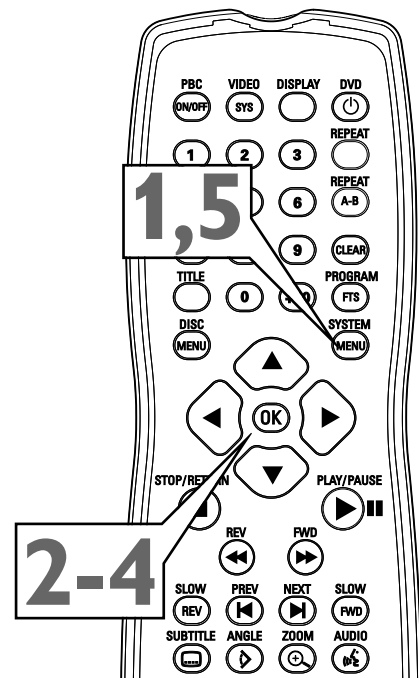
Defaults

To restore the original settings of the Player, follow the steps below.

- 1** Press **STOP/RETURN** ■ twice to stop playback completely.
- 2** Press **SYSTEM MENU**.
- 3** Press **▼** repeatedly to select **PREFERENCES**. Press **OK**.
You can select **PREFERENCES** only if you have completely stopped playback by pressing **STOP/RETURN** ■ twice as directed in step 1.
- 4** Press **▼** repeatedly to select **DEFAULTS**, then press **►** to select **RESET**, then press **OK**. The original settings of the Player will be restored.



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



Helpful Hints



- Resetting the Defaults may set the Player to a Color System (TV Type) that is not compatible with your TV and DVDs. If the picture is black and white after you reset the Defaults, press **VIDEO SYS** (while playback is stopped) to select **PAL** or **NTSC**. Details are on page 33.

42 Helpful Hints

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 rear 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 POWER  on the front of the Player or DVD  on the remote to turn on the Player.
- Make sure you connected the power adaptor properly. Connect the adaptor to the 12V jack on the rear of the Player and to an active power outlet. Use only the supplied adaptor.
- Make sure the power outlet has power by trying another appliance in the same outlet.

No picture

- Make sure the TV power is on.
- Check the video cable(s). Make sure the cable(s) are fastened securely to the 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, Video, 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 in the blue background screen on the TV.
- You only need one video connection. Refer to page eight to see what connection best suits your situation.
- If you used S-Video connections as described on page 10, set VIDEO OUT to (S-) VIDEO. If you used Component Video connections as described on page 11, set VIDEO OUT to YCBCR. *Details are on page 35.*

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 TYPE correctly. If your TV uses NTSC, set the Player to NTSC. Likewise, the DVDs you play must be in NTSC format. *Details are on page 33.* You can set the Player to NTSC or PAL simply by pressing VIDEO SYS repeatedly when playback is stopped.

The picture is distorted or the picture is only black and white.

- TVs meet NTSC or PAL Color System standards. If the Disc's or 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 Player by adjusting TV TYPE. *Details are on pages 7 and 33.* Choose NTSC, PAL, or MULTI, depending on your TV and your Disc. You can set the Player to NTSC or PAL simply by pressing VIDEO SYS repeatedly when playback is stopped.

The sound is distorted during Disc playback through a Stereo.

- Make sure you did not connect any cables from the Player to the Stereo's "PHONO IN" jack.
- Check your AUDIO OUT setting. *Details are on page 36.*

No sound

- Check the audio connections. *Details are on pages 9-14.* Remember, you only need one audio connection. Refer to page eight 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 or Receiver. See your Stereo/Receiver manual for details. Or, just continue selecting the different sound sources or modes on the Stereo/Receiver until you hear sound from the Disc that is in the Player. *Details are on pages 9-14.*

Disc will not play.

- Make sure the Disc label is facing up when you put the Disc in the Player. If you are playing a two-sided Disc, make sure the side you want to play is facing up. *Details are on page 16.*
- Check the Parental Control settings. Select NO_PARENTAL to turn off Parental Control and play all Discs. *Details are on pages 28-29.*
- Check the NTSC/PAL settings of the Disc, your TV, and the Player. *Details are on page 33.*
- Check the Region Code of the Disc. The Disc must be coded for All regions or Region 1 in order to play on this Player. *Details are on page seven.*
- 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 seven.*
- Use a commonly available cleaning CD/DVD to clean the lens of the Player.
- Discs that are copy-protected or incorrectly coded by the manufacturer may not play on this Player. Contact your retailer or the Disc manufacturer to obtain a compatible, playable Disc.


The Player does not respond to the remote control.

- Aim the remote control directly at the sensor (IR or infrared) on the front of the Player. *Details are on page 18.*
- Remove any obstacles between the Player and the remote control.
- Inspect or replace the batteries in the remote control.
- Stand or sit directly in front of the Player when using the remote. Using the remote at an angle to the Player (or from the side of the Player) may not work as efficiently.

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

- To reset the Player, disconnect the adaptor's power plug from the power outlet for several minutes. Then reconnect the Player to power again.

The 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,  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 Player cannot create the feature. This is not a malfunction of the Player.
- Some features can be changed only during playback. Other features can be changed only if playback is stopped. Stop or start playback, then try the feature again.

The Player turns itself off.

- The Player will turn itself off automatically if you do not use the Player or its remote or if a Disc is not playing. This is part of the Screen Saver feature. *Details are on page 41.*

44 Glossary

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, left and right audio jacks on your equipment. These jacks send audio through two channels, the left and right.

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, allowing you to adjust the volume at the Stereo. The Stereo must have a Coaxial In jack. This connection provides the 5.1 channel surround sound as heard in movie theaters.

Component Video: Use the Pr Pb Y jacks on the rear of the Player to 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. These jacks send audio through multiple channels, instead of just two channels as analog does.

Direct Stream Digital (DSD): New technology used to record Super Audio CDs. DSD uses a 1-bit system with a digital sampling frequency 64 times higher than a regular Audio CD, resulting in a frequency response of over 50 kHz and a 120 dB dynamic range.

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 DVDs are two-sided, with one side playing in Letterbox and the other side playing in a normal format.) DVDs may refer to Letterbox as the Widescreen format.

Multichannel sound: Available when you connect the Player to a six-channel Receiver. The Receiver sends sound to six speakers: front left and right, rear or surround left and right, center, and sub-woofer.

OPTICAL Jack: Converts electrical signals into optical signals before sending the audio to the Stereo. 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.”

Super Audio Compact Disc (SACD): There are three types of Super Audio CDs: single-layer, dual-layer, and hybrid. Each may contain two areas of recorded audio: High Quality (HQ) Stereo and High Quality (HQ) Multi-channel.

Hybrid SACDs may contain both HQ Stereo and HQ Multi-channel, plus a standard CD layer, making it playable on standard CD players. Check the SACD Disc case to determine what type of SACD you have. This Player will play only the CD layer (if it is available on the SACD).

S-Video: Produces a clearer picture by sending separate signals for the luminance and the color. If you connect an 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 Jack: Yellow jack on the rear of the Player that sends video to a TV.

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

PLAYABLE DISCS

Audio CDs (Compact Discs)
 CD Recordable (CD-R)
 CD Rewritable (CD-RW)
 DVD-Video
 MP3-CD
 Super Video CD (SVCD)
 Video CD (VCD)
 Super Audio CD (SACD) (plays CD layer only)

TV STANDARD	PAL/50Hz	NTSC/60Hz
Number of lines	625	525
Playback	Multistandard	(PAL/NTSC)

VIDEO PERFORMANCE

VIDEO OUT 1 Vpp---75Ω
 S-VIDEO OUT Y: 1 Vpp---75Ω
 C: 0.3 Vpp---75Ω
 Y Pb Pr Y: 1 Vpp---75Ω
 Pb: 0.7 Vpp---75Ω
 Pr: 0.7 Vpp---75Ω

CABINET

Dimensions (w x h x d): 9 x 2.2 x 11.7 inches
 (228 x 56 x 296 mm)
 Weight: Approximately 5.1 lbs (2.32 kg)

AUDIO FORMAT

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

- Analog Stereo Sound
- Dolby Surround-compatible downmix from Dolby Digital multi-channel sound
- 3D sound for virtual 5.1 channel sound on two speakers
- Dolby Digital and DTS surround sound outputs from 5.1 channels

AUDIO PERFORMANCE (TYPICAL)

DA Converter	24 bit
Signal to Noise (1kHz)	> 90 dB
Dynamic range (1kHz)	> 80 dB
Crosstalk (1kHz)	> 80 dB
Distortion and Noise (1kHz)	> 88 dB
MPEG MP3	MPEG Audio L3
DVD	fs 96 kHz 4 Hz -44 kHz
SVCD/VCD/Audio CD	fs 44.1 kHz 4 Hz -20 kHz
DVD/SVCD	fs 48 kHz 4 Hz -22 kHz

REAR CONNECTIONS

Y Pb Pr Video Out	Cinch (green/blue/red)
S-Video Out	Mini DIN, four pins
Video Out	Cinch (yellow)
Audio Out	Cinch (white/red, left/right)
Digital Audio Out	1 coaxial, 1 optical
	IEC958 for Audio CD and LPCM
	IEC1937 for MPEG1/2, Dolby Digital
Subwoofer (SUBW)	Cinch (black)
MULTI-5.1	Mini DIN, nine pins

LASER

Type	Semiconductor laser GaAlAs
Wavelength	650nm (DVD) 780nm (Video CD/Audio CD)
Output power	7mW (DVD) 10mW (Video CD/Audio CD)
Beam divergence	60 degree

46 Limited Warranty

Digital Video Disc Player

90 days Free Product 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 free new or renewed product through Philips. 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.

When it is necessary for you to ship the product to Philips for exchange, you will pay the shipping costs for shipment to Philips. Philips will pay the shipping costs when returning a product to you.

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.
- 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 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. In countries where Philips 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)

1-800-531-0039 (English or Spanish 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.

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 # _____

Limited Warranty (cont'd) 47

EXCHANGE INSTRUCTIONS

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 at 1-800-531-0039 to determine the preset cost for exchange.
- If you do not have your original sales receipt, or if you have any questions, call Philips at 1-800-531-0039.

To obtain a replacement product from Philips:

1. Contact Philips 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 Philips at 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.

**When it is necessary for you to ship the product to Philips for exchange, you will pay the shipping costs for shipment to Philips. Philips will pay the shipping costs when returning a product to you.*

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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