

DVD Video player

DVD701



**Toll Free Help Line**

Ligne d'assistance en service libre  
Línea de ayuda telefónica sin cargo

**800-531-0039**



*Let's make things better.*



**PHILIPS**

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

• Once your Philips purchase is registered, you're eligible to receive all the privileges of owning a Philips product.

• So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

## **Warranty** **Verification**

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. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the Philips "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

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

Sincerely,

Robert Minkhorst  
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, and fully insert.

### **For Customer Use**

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

# Index

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## LASER SAFETY

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

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

### LASER

Type	Semiconductor laser GaAlAs
Wave length	650 nm (DVD) 785 nm (VCD/CD)
Output Power	7 mW (DVD) 10 mW (VCD/CD)
Beam divergence	60 degree

*TruSurround and the SRS symbol are trademarks of SRS Labs., Inc. TruSurround technology is manufactured under license from SRS Labs., Inc.*

**TruSurround™**  
by **SRS** (●)®

**The region code for this model is 1.**



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

**NOTE:  
PICTURES SHOWN MAYBE DIFFERENT BETWEEN COUNTRIES.**

**NEVER MAKE OR CHANGE CONNECTIONS WITH THE POWER SWITCHED ON.**

## CAUTION

**VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN  
AVOID EXPOSURE TO BEAM  
(WARNING LOCATION: INSIDE ON LASER COVERSHEILD  
OR THE BACKPLATE OF SET)**

*Manufactured under license from Dolby Laboratories. "Dolby", "AC-3" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. ©1992-1997 Dolby Laboratories, Inc. All rights reserved.*

*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.*



**CLASS 1  
LASER PRODUCT**

### For Customer Use:

Read carefully the information located at the bottom of your DVD-VIDEO player and enter below the Serial No. Retain this information for future reference.

Model No. DVD-VIDEO 701

Serial No. \_\_\_\_\_

	<b>CAUTION</b>	
<b>RISK OF ELECTRIC SHOCK DO NOT OPEN</b>		
<b>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</b>		



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.



This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

	<b>AVISO</b>	
<b>RIESGO DE CHOQUE ELÉCTRICO NO ABRIR</b>		
<b>Atención: Para reducir el riesgo de choque eléctrico, no quite la tapa (o el panel posterior). En su interior no hay piezas que el usuario pueda reparar. Para servicio dirijase a personal calificado.</b>		



Este símbolo tiene por finalidad advertir al usuario de la presencia de tensión peligrosa no aislada dentro de la caja del aparato, que puede ser lo suficientemente fuerte para constituir un peligro de choque eléctrico.



Este símbolo sirve para advertir al usuario de la presencia de instrucciones de manejo y mantenimiento (servicio) importantes en el manual que acompaña al aparato.

	<b>AVIS</b>	
<b>RISQUE DE CHOCS ÉLECTRIQUES NE PAS OUVRIR</b>		
<b>Attention: Afin de prévenir le risque de chocs électriques, ne pas retirer les vis. Toute réparation devrait être confiée à un personnel qualifié.</b>		



Ce symbole indique la présence d'une tension suffisamment élevée pour engendrer un risque de chocs électriques.



Ce symbole indique que le manuel d'installation fourni avec l'appareil contient d'importantes recommandations quant au fonctionnement et à l'entretien de ce dernier.

## WARNING

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

## CAUTION

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

The set complies with the FCC-Rules, Part 15 and with 21 CFR 1040.10.

## Canada

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.

## AVISO

Para reducir el riesgo de fuego o choque eléctrico, no exponga el aparato a la lluvia o humedad.

## ATENCIÓN

El uso de mando o ajustes o la ejecución de métodos que no sean los aquí descritos puede ocasionar peligro de exposición a radiación.

El aparato cumple las normas FCC, Parte 15 y 21 CFR 1040.10.

## AVIS

Afin de réduire tout risque d'incendie ou de choc électrique, il ne faut pas exposer cet appareil à la pluie ou à l'humidité.

## ATTENTION

L'utilisation des commandes ou réglages ou le non-respect des procédures ci-incluses peuvent se traduire par une exposition dangereuse à l'irradiation.

L'appareil répond aux normes FCC, Part 15 et 21 CFR 1040.10.

## Canada

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Class B prescrites dans le Règlement sur le Brouillage Radioélectrique édicté par le Ministère des Communications du Canada.

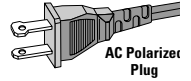
# IMPORTANT SAFETY INSTRUCTIONS –

Read before operating equipment

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

- 1. Read these instructions** – All the safety and operating instructions should be read before the appliance is operated.
- 2. Keep these instructions** – The safety and operating instructions should be retained for future reference.
- 3. Heed all warnings** – All warnings on the appliance and in the operating instructions should be adhered to.
- 4. Follow all instructions** – All operating and use instructions should be followed.
- 5. Do not use this apparatus near water** – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.
- 6. Clean only with a damp cloth.** The appliance should be cleaned only as recommended by the manufacturer.
- 7. Install in accordance with the manufacturer's instructions. Do not block any of the ventilation openings.** For example, the appliance should not be situated on a bed, sofa, rug, or similar surface or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- 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 the 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 power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

EL 4562-E004: 99/3

# LIMITED WARRANTY

## DVD VIDEO PLAYER

90 Days Free Labor

One Year Exchange Warranty on Parts

This product must be carried in for repair.

### WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

### WHAT IS COVERED?

Warranty coverage begins the day you buy your product. For 90 days thereafter, all parts will be repaired or replaced, and labor is free. From 90 days to one year from the day of purchase, all parts will be repaired or replaced, but you pay for all labor charges. After one year from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

### WHAT IS EXCLUDED?

Your warranty does not cover:

- 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 misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product that is used for commercial or institutional purposes (including but not limited to rental purposes).

### WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics. In countries where Philips Consumer Electronics does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

### MAKE SURE YOU KEEP..

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

### BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

### TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Take the product to a Philips factory service center (see enclosed list) or authorized service center for repair. When the product has been repaired, you must pick up the unit at the center. Centers may keep defective parts.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are 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 GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

1-800-661-6162 (French Speaking)

1-800-363-7278 (English Speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. 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.)

### REMEMBER...

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

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

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

*This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.*

**Philips Service Solutions Group, P.O. Box 2976, Longview, Texas 75606, (903) 242-4800**

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# Introduction

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## Entertainment for the new millennium

Video was never like this before! Digital video discs provide perfect digital, studio-quality pictures; three dimensional digital, multi-channel audio; story sequences screened from your choice of camera angle; sound tracks in as many as eight languages; and up to 32 subtitles (if available on disc). Whether you watch DVD-Video on wide-screen or regular TV, you always see it the way it was meant to be.

### Digital video

DVD-Video uses state-of-the-art MPEG2 data compression technology to register an entire movie on a single 5-inch disc. DVD's variable bitrate compression, running at up to 9.8 Mbits/second, captures even the most complex pictures in their original quality.

The crystal-clear digital pictures have a horizontal resolution of over 500 lines, with 720 pixels (picture elements) to each line. This resolution is more than double that of VHS, superior to Laser Disc, and entirely comparable with digital masters made in recording studios.

DVD-Video discs conform to either the PAL or NTSC video standard. This player can play both PAL and NTSC discs, presenting them in the best possible way on your multi-standard TV screen.

As the universal video system of the future, DVD-Video offers optimal pictures on any TV screen.

## Introduction

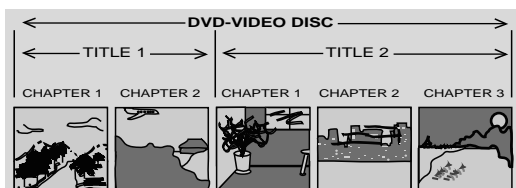
Your Philips DVD-Video player will play digital video discs conforming to the universal DVD-Video standard. With it, you will be able to enjoy full-length movies with true cinema picture quality, as well as stereo or multi-channel sound (depending on the disc and your playback setup). The unique features of DVD-Video, such as selection of sound track, subtitle languages and different camera angles (again depending on the disc), are all included. What's more, Philips Child Lock lets you decide which discs your children will be able to see.

In addition to DVD-Video discs, you will be able to play all Video CDs and Audio CDs (including finalized CD Recordable and CD Rewritable). You will find the On-Screen Display, player display, and remote control make the player easy to use. This manual provides all the information you will need, so read on!

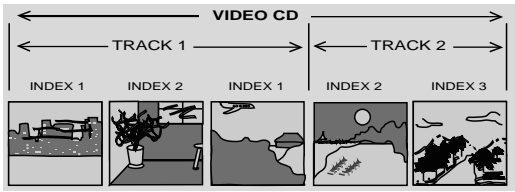
### DVD-Video

You will recognize DVD-Video discs by the logo shown on left.

Depending on the material on the disc (a movie, video clips, a drama series, etc.) the disc may have one or more Titles. Each Title may have one or more Chapters. To make playback easy and convenient, your player lets you select Titles and playback Chapters.







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## Video CD

You will recognize Video CDs by the logo shown at left.

Depending on the material on the disc (a movie, video clips, a drama series, etc.) the disc may have one or more tracks. Tracks may have one or more indexes, as indicated on the disc case. To make playback easy and convenient, your player lets you select tracks and indexes.

Some Video CDs have Play Back Control (PBC), which is a predefined playback sequence stored on the disc.

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## Super VCD

SVCD discs based on the SuperVCD IO Standard based on the Standard of the Electronics Industry of the People's Republic of China



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## Audio CD

Audio CDs contain music tracks only.

You will recognize Audio CDs by their logo which is shown at left.

You can play them in conventional style through a stereo system, using the keys on the remote control and/or front panel, or via the TV using the On-Screen Display (OSD).

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## Unpacking

First check and identify the contents of your DVD-Video player package. You should have the following items.

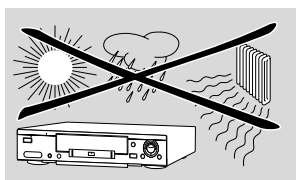
- DVD-Video player
- Remote Control with batteries
- A/C power cord
- Audio/Video cable
- Instructions for use

If any item is damaged or missing, contact your retailer or Philips.

Keep the packaging materials; you may need them to transport your player in the future.

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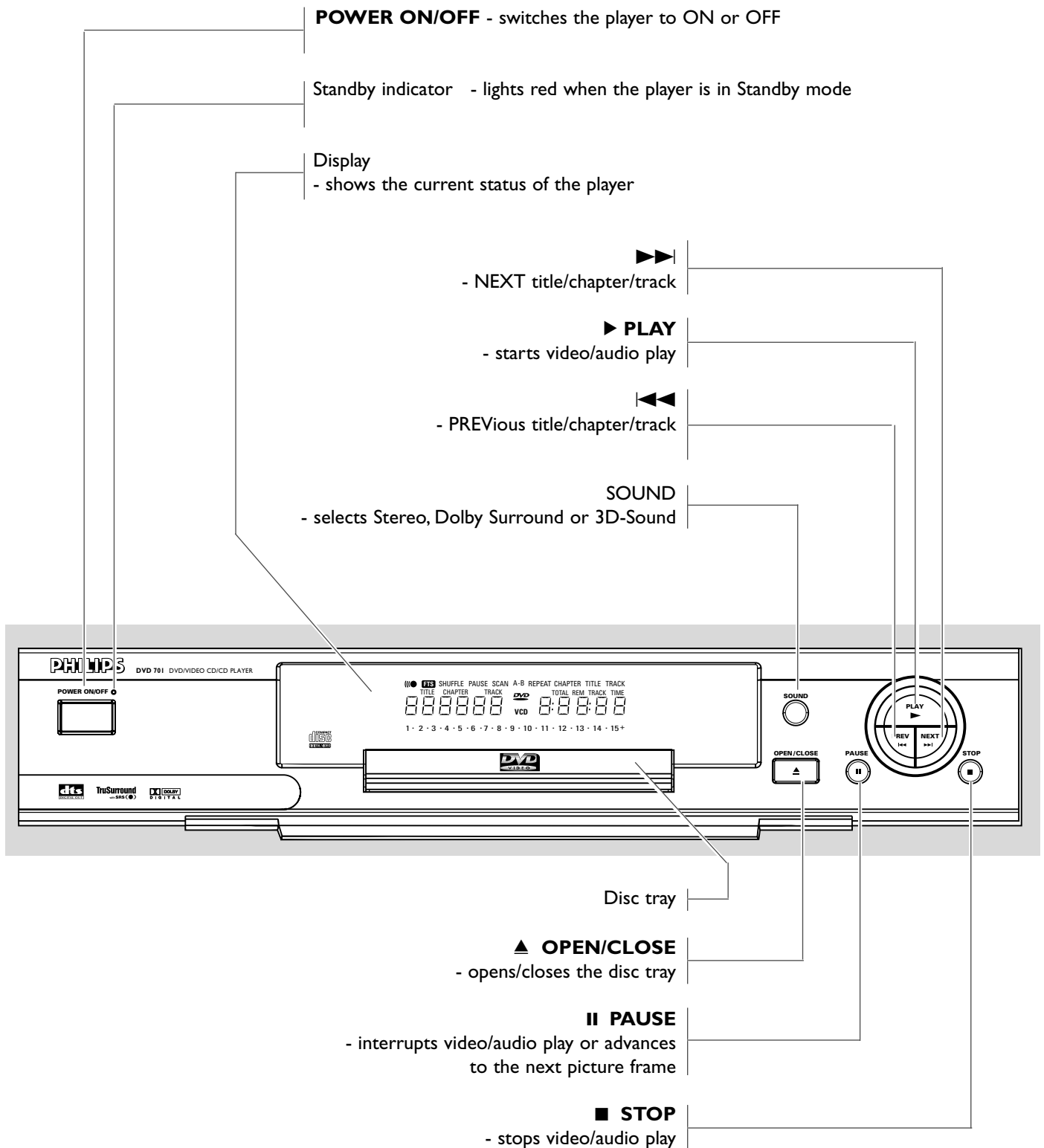
## Placement



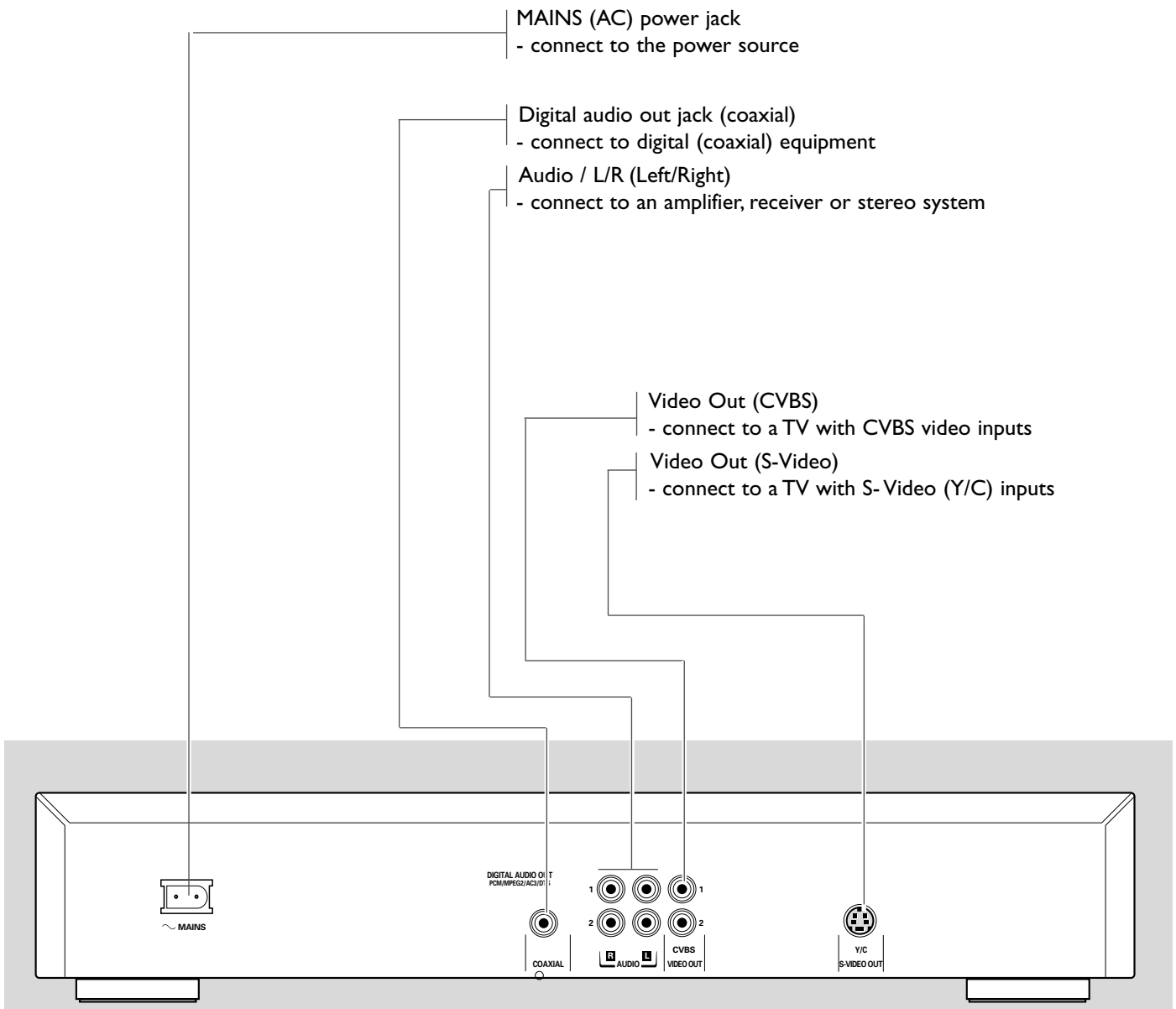
- Place the player on a firm, flat surface.
- Keep the player away from domestic heating equipment and direct sunlight.
- In a cabinet, allow about 2.5 cm (1 inch) of free space all around the player for adequate ventilation.
- If the DVD-Video player cannot read CDs/DVDs correctly, use a commonly available cleaning CD/DVD to clean the lens before taking the DVD-Video player to be repaired. Other cleaning methods may destroy the lens. Always keep the tray closed to avoid dust on the lens.
- The lens may cloud over when the DVD-Video player is suddenly moved from cold to warm surroundings. Playing a CD/DVD is not possible then. Leave the DVD-Video player in a warm environment until the moisture evaporates.
- To view the typeplate, please refer to the bottom of the player.

# Functional overview

## Front panel



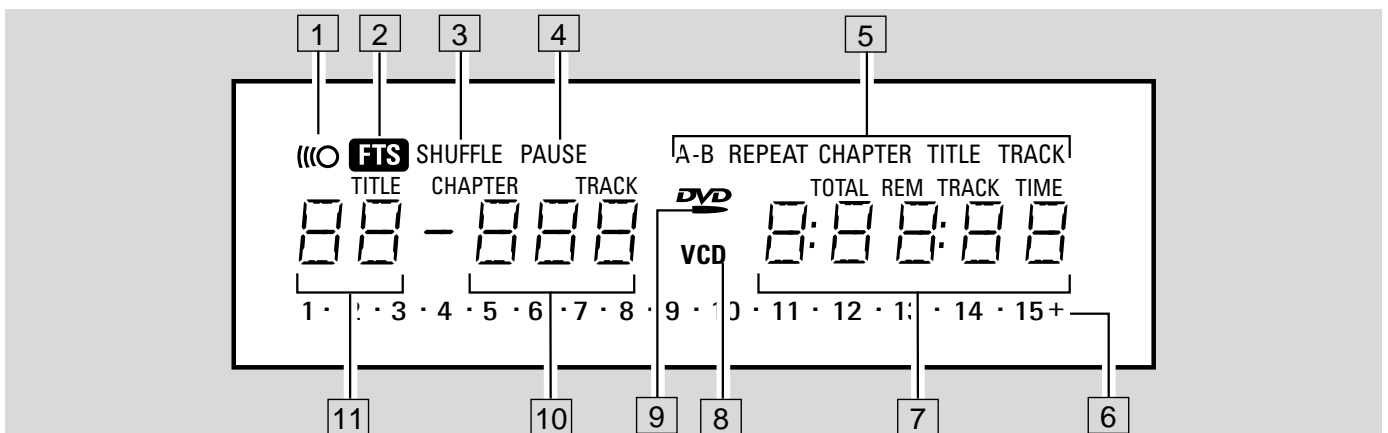
## Rear panel



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

## Display

- 1 Remote control active (flashing)
- 2 FTS active
- 3 SHUFFLE active
- 4 PAUSE active
- 5 REPEAT A-B/CHAPTER/TITLE/TRACK mode active
- 6 Chapter or track calendar
- 7 TOTAL/REMAIning/TRACK TIME in hours, minutes and seconds
- 8 (V)CD disc inserted
- 9 DVD disc inserted
- 10 DVD CHAPTER or VCD/CD TRACK number
- 11 DVD TITLE number



# Remote control

**0-9** numerical key pad

**RETURN**

- go back to previous menu

**OK**

- acknowledge menu selection



- (left/right/up/down) cursor movement

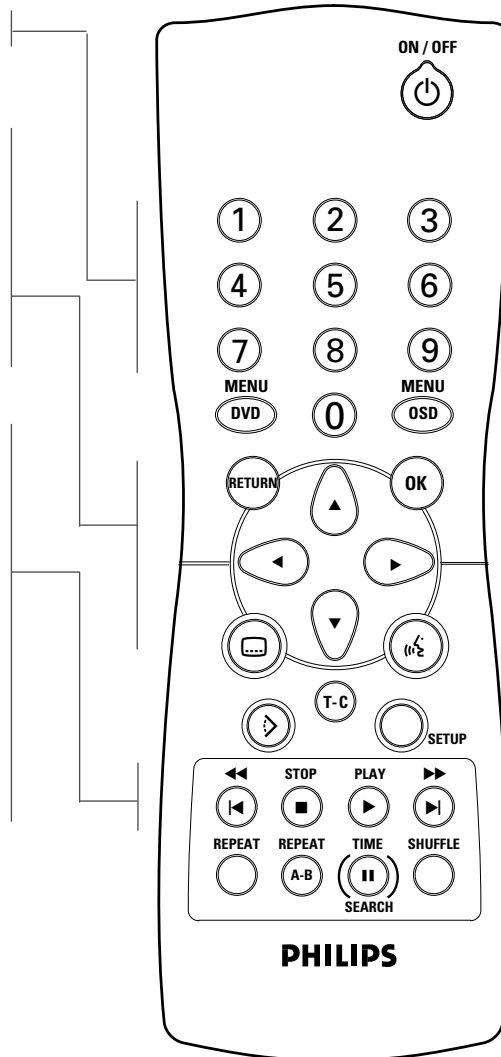


- search backward\* / previous chapter or track

■  
- stop

▶  
- play

▶▶ ▶|  
- search forward\* / next chapter or track



**STANDBY-ON (ON-OFF)**

**MENU DVD**

- access menu of a DVD

**MENU OSD**

- access or remove On-screen display



- subtitle language selector



- audio language selector

**T-C**

- select title / select chapter

**SETUP**

- select player settings menu (in stop mode only)



- select DVD camera angle

**REPEAT**

- repeat chapter, track, title, disc

**REPEAT A-B**

- repeat sequence

**TIME SEARCH**

- playback at any chosen time on the disc\*

**II**

- pause playback temporarily / frame-by-frame playback

**SHUFFLE**

- playback tracks in random order

\* Press key for about 2 seconds

# Preparation

## General notes

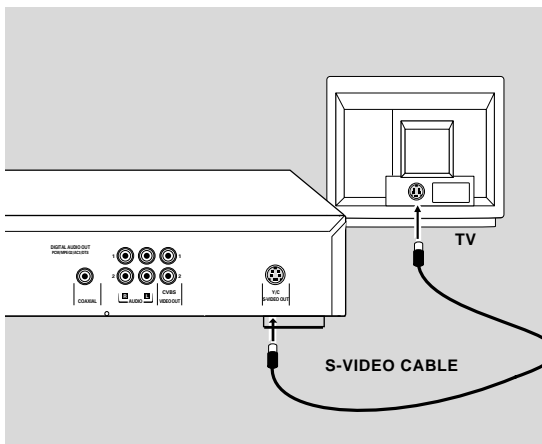
- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the player. Possible connections are shown in the following drawings. Please refer to the manuals of your TV, VCR, Stereo System or other devices as necessary to make the best connections.
- Do not connect your DVD-player via your VCR. The video quality could be distorted by the copy protection system.
- For better sound reproduction, connect the player's audio out jacks to the audio in jacks of your amplifier, receiver, stereo or A/V equipment. See 'Connecting to optional equipment'.

**Caution: Do not connect the player's audio out jack to the phono in jack of your audio system.**

## Connecting to a TV

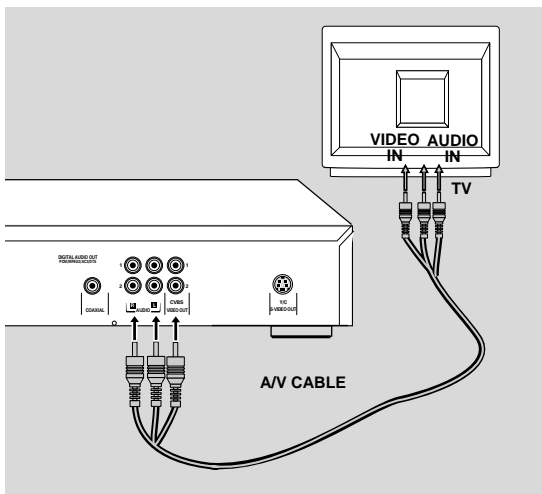
### S-Video connection.

- 1 Connect the S-Video connector on the rear of the player to the corresponding connector on the TV using the S-Video cable (not supplied).
- 2 Connect the audio Left and Right channel sockets on the player rear panel to the corresponding sockets on your TV or stereo system (e.g. AUX, CD, etc.).



### Video CVBS connection

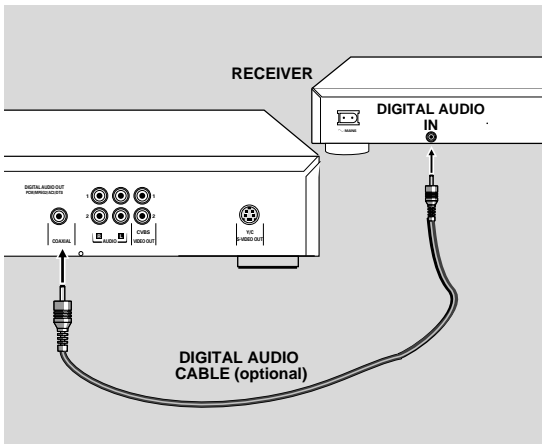
- 1 Connect the Video socket on the rear of the player to the corresponding socket on the TV using the cable supplied.
- 2 Connect the audio Left and Right channel sockets on the rear of the player to the corresponding sockets on the TV using the cable supplied. Alternatively, you can use the same cable to connect the audio Left and Right sockets on the rear of the player to the corresponding sockets on your TV or stereo system (e.g. AUX, CD, etc.).



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## Connecting to optional equipment

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### Connecting to an amplifier equipped with digital stereo

- For multi-channel sound, your player provides both digital and analog audio outputs.

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### Connecting to an A/V receiver equipped with a multi-channel decoder (Dolby Digital™ (AC-3) , MPEG 2 and DTS)

#### Digital Multi-channel sound

Digital multi-channel connection provides the best sound quality. For this you need a multi-channel A/V receiver that supports one or more of the audio formats supported by your DVD player (MPEG 2, Dolby Digital™ (AC-3) and DTS). Check the receiver manual and the logos on the front of the receiver.

- 1 Connect the player's digital audio or digital coaxial output to the corresponding input on the receiver using the optional digital audio cable.(not supplied) In this case, do not use the player's audio Left and Right outputs.
- 2 You will need to activate the digital output of the player (See Settings).
- 3 The audio format of the digital output is dependent on the audio format of the selected audio stream. Make sure that the selected audio stream matches the capabilities of the receiver connected to the digital output.

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### Connecting to an amplifier equipped with Dolby Surround™

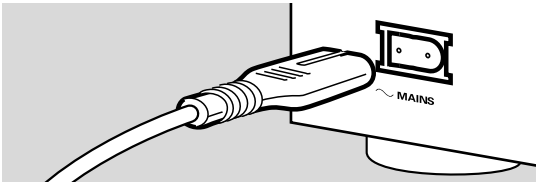
- 1 If your TV set has a Dolby Pro Logic™ decoder, you simply hook up the player to the TV using the S-Video, or Video (CVBS) and audio connections.
- 2 If not, you need to make the S-Video, or Video (CVBS) connection to the TV, and connect the player's audio Left and Right outputs to the corresponding inputs on a Dolby Pro Logic™ Audio/Video receiver, using the cable supplied.
- 3 For speaker connections, follow the instructions given in the TV set or A/V receiver user manual.

#### NOTE

*If the audio format of the digital output does not match the capabilities of your receiver, the sound will be muted.*

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## Connecting the power cord



- 1 Plug the female end of the supplied power cord into the Mains (AC) jack on the rear of the player.
- 2 Connect the other end of the cord to an AC outlet.

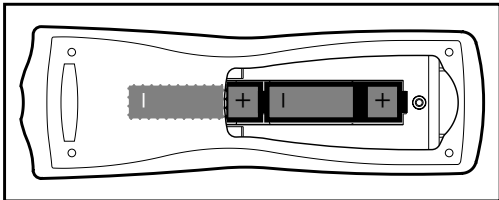
*Note: When the player is in the "STANDBY" mode, it is still consuming some power. If you wish to disconnect your player completely from the power, press POWER ON/OFF*

**Caution: Only qualified service personnel should remove the cover or attempt to service this device.**

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## Remote control battery installation

### Loading the batteries



- 1 Open the battery compartment cover.
- 2 Insert batteries as indicated inside the battery compartment.
- 3 Close the cover.

**Caution: Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).**

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## NTSC/PAL Settings

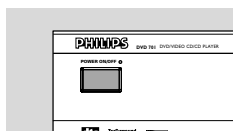
You can switch the NTSC/PAL setting of the DVD player to match the video signal of your TV. This setting only affects the television's on-screen display that shows the stop and setup modes. You may select either NTSC or PAL. To change the DVD player setting to PAL or NTSC, follow the steps below.

- 1 Press the POWER ON/OFF button on the front panel of the DVD player to turn OFF the DVD player.
- 2 Press and hold ▲ and ►►| on the front of the DVD player. While holding ▲ and ►►|, press POWER ON/OFF.
- 3 After PAL or NTSC appears on the display panel of the DVD player, release ▲ and ►►| at the same time. The PAL or NTSC that appears on the display panel indicates the current setting.
- 4 To change the setting, press ►►| within three seconds. The new setting (PAL or NTSC) will appear on the display panel.



---

## General explanation



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### Switching ON

- 1 Switch on the TV and select the video input for your DVD-Video player.
- 2 Press **POWER ON/OFF** button.

---

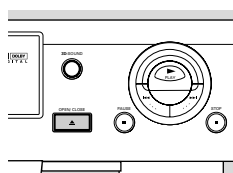
### Remote control operation

- Unless otherwise stated, all operations can be carried out with the remote control. Always point the remote control directly at the player, making sure there are no obstructions in the path of the infrared beam.

When there are corresponding keys on the front panel of the player, they can also be used.

---

### Loading a disc



- 1 Press Open/Close on the front of the player. The disc loading tray opens.
- 2 Lay your chosen disc in the tray, label side up. Make sure it is sitting properly in the correct recess.
- 3 Press Open/Close, to close the tray.



























## Playing a DVD-video disc

### NOTE

During play, various icons will appear on the TV screen for about 2 seconds to confirm that a function has been selected. You can get rid of these icons by pressing MENU OSD.

At any time during play, you can press MENU OSD to call up the Play Banner, which shows you which functions are active, for about 2 seconds. To keep the Play Banner on the screen, hold down MENU OSD for a couple of seconds. To get rid of the Play Banner, press MENU OSD again.

- List of icons:

	.....Play
	.....Pause
	.....Stop
	.....Search forward
	.....Search backward
	.....A-B repeat start
	.....A-B repeat
	.....Repeat disc
	.....Repeat title
	.....Repeat chapter
	.....Chapter shuffle
	.....Title indication
	.....Chapter indication
	.....Disable function
	.....Angle
	.....No alternative angle
	.....Sound (Stereo, Dolby Surround, 3D Sound)
	.....Subtitle language
	.....Audio language
	.....Audio system
	.....Remaining time of title
	.....Elapsed time
	.....Resume
	.....Total time



---

## Playing a title

- With Autoplay ON, play starts when you close the disc drawer.
- With Autoplay OFF, press ►.

### NOTE

*Some DVD-Video discs carry their own Autoplay, in which case play always starts automatically.*

- The disc may invite you to select an item from a menu. If the selections are numbered, press the appropriate numerical key; if not, use the ◀ / ▶ / ▲ / ▼ keys to highlight your selection, and press OK.
  - As the disc plays, the player display shows the current title and chapter, and the elapsed playing time.
- Play will stop at the end of the Title, this can result in return to menu. To go on to the next Title, press ►.
- To stop play at any other time, press ■.
- You can resume play from the point at which you stopped. Press ► , when you see the Resume icon  on the screen.
  - The resume feature applies, not only to the disc in the player, but also to the last four discs you have played.
  - Simply reload the disc, press ► if Autoplay is off, and when you see the Resume  icon on the screen, press ► again.

---

## Moving to another chapter

When a title on a disc has more than one chapter (which you can see from the player display), you can move to another chapter as follows:

- Press ► briefly during play to step forward to the next chapter.
- Press ◀ briefly during play to return to the beginning of the current chapter. Press ◀ **twice** briefly again to step back to the previous chapter.
- To go directly to any chapter, enter the chapter number using the numerical keys **(0-9)**.

### NOTE

*If the number has more than one digit, press the keys in rapid succession. For more information about chapters, see “Checking the contents of DVD-Video discs: Menus”.*

---

## Moving to another title

When a disc has more than one title (which you can see from both the OSD and the player display if you press ■), you can move to another title as follows:

- Press T-C, then press ► briefly during play to step forward to the next title.
- Press T-C, then press ◀ briefly during play to return to the beginning of the current title. Press ◀ **twice** briefly again to step back to the previous title.
- To go directly to any title, press T-C, then enter the title number using the numerical keys.

### NOTE

*If the number has more than one digit, press the keys in rapid succession. For more information about titles, see “Checking the contents of DVD-Video discs: Menus”.*



## Parental Control

- If you activate Parental Control, only discs that you have already authorized as suitable for all ages can be played as above.
- To play any other DVD-Video disc, the OSD will ask for the Parental Control PIN code to be entered. When this has been done, play starts automatically.
- To activate Parental Control, and to authorize discs, see Activating Parental Control.

### NOTE

If you forget your pin code, you can erase it when the code is requested as above, by pressing Stop ■ four times. Parental Control will then be deactivated. To re-activate it, see Activating Parental Control.

## Still Picture and Step Frame


- To get a still picture, press || during play.
- To step forward to the next picture frame, press || again.
- To return to play, press ▶.

## Search

- To search forwards or backwards through the disc at 4x normal speed, hold down ▶ or ◀ for about 1 second during play.
  - Search begins, and sound is muted.
- To step up to 32x normal speed, press ▶ or ◀ again.
- To go directly to 32x normal speed, press twice ▶ or ◀ until the ▶▶▶ or ◀◀◀ icon appears.
- To return to 4x normal speed, press ▶ or ◀ again.
- Search speed and direction are indicated on the screen for 2 seconds each time ▶ or ◀ is pressed.
- To end the search, press ▶, || or ■ as desired.

## Shuffle

This shuffles the playing order of chapters within a title, if the title has more than one.

- Press SHUFFLE during play.
  - The shuffle icon  appears on the screen for about 2 seconds.
- As each chapter is played, its number disappears from the track calendar.
- To return to normal play, press SHUFFLE again.

## Repeat Chapter/Title/Disc

- To repeat the current-playing chapter, press REPEAT for about 1 second:
  - REPEAT CHAPTER appears on the player display.
- To repeat the current-playing title, press REPEAT a second time for about 1 second:
  - REPEAT TITLE appears on the display.
- To repeat the entire disc, press REPEAT a third time for about 1 second;
  - REPEAT appears on the display.
- To exit Repeat mode, press Repeat a fourth time for about 1 second.

---

## Repeat A-B

To repeat or loop a sequence in a title:

- Press REPEAT A-B at your chosen starting point;
  - A- appears on the player display.
- Press REPEAT A-B again at your chosen end point;
  - A-B appears on the display, and the repeat sequence begins.
- To exit the sequence, press Repeat A-B again.

---

## Camera Angle



- If the disc contains sequences recorded from different camera angles, the angle icon appears, showing the number of available angles, and the angle being shown. You can then change the camera angle if you wish.
- To get another angle, press ANGLE >.
  - The angle icon will show the next angle.
- To go to any angle directly, enter the angle number using the numerical keys (0-9).

### NOTE

*The angle icon remains on the screen unless you turn off the angle feature.*

- To turn off the angle feature, press MENU OSD:
  - The angle icon disappears.
- To turn the angle feature on again, press angle > again:
  - The angle icon reappears.

---

## Time Search

The time search function allows you to start playing at any chosen time on the disc.

- Press TIME SEARCH during play for about 2 seconds.
  - The player will go into PAUSE mode.
  - TIME SEARCH menu appears showing elapsed playing time on current disc.
- Use the digit keys to enter the required start time. Enter hours, minutes and seconds from left to right in the time field box on the screen.
- Each time an item has been entered, the cursor will move to the next time field.
- Press ▶ to start playing.
  - The time field box will disappear and play resumes at the time entered.
- Press ■ to cancel the TIME SEARCH operation.

---

## Changing the audio language and channel configuration

AUDIO  
ENG

MPEG  
2 ch

DTS

This changes the language and the audio channel configuration when alternatives are available on the disc. (e.g. Dolby Digital, DTS and etc...)




- Press Audio during playback.
  - The audio language and channel configuration icons appear on the screen for 2 seconds.
- Press Audio repeatedly to step through the options.
  - At each step, the language changes. If the sound configuration changes too (for example from multi-channel to stereo) this is also indicated.

### NOTE

- Before selecting DTS, ensure that you have a DTS decoder amplifier connected and set the Digital Output to ALL (refer to section on Setting) in order to hear the digital sound.

---

## Subtitles

- When subtitles are available on a disc, you can turn them on by holding Subtitle  down during play until the subtitles appear.
- To step through the language options, press Subtitle  repeatedly.
- To turn the subtitles off, hold Subtitle  down (3 seconds) again.

---

## Checking the contents of DVD-Video discs: Menus

For titles and chapters, selection menus may be included on the disc. The DVD's menu feature allows you to make selections from these menus. Press the appropriate numerical key; or use the ◀ / ▶ / ▲ / ▼ keys to highlight your selection, and press OK.

- Press MENU DVD.
  - If the present title has a root menu, this now appears on the OSD.
- The root menu can list camera angles, spoken language and subtitle options, and chapters for the title.
- To remove the root menu, press MENU DVD again.
- Press T-C followed by MENU.
  - If the disc has a title menu, this now appears on the OSD.
- To remove the title menu, press T-C again.

## Playing a Video CD



### NOTE

During play, various icons will appear on the TV screen for about 2 seconds to confirm that a function has been selected. You can get rid of the icon by pressing MENU OSD.

At any time during play, you can press MENU OSD to call up the Play Banner, which shows you which functions are active, for about 2 seconds. To keep the Play Banner on the screen, hold down MENU OSD for a couple of seconds. To get rid of the Play Banner, press MENU OSD again.

- List of icons:

	.....Play
	.....Pause
	.....Stop
	.....Search forward
	.....Search backward
	.....A-B repeat start
	.....A-B repeat
	.....Repeat disc
	.....Repeat track
	.....Shuffle
	.....Track indication
	.....Index indication
	.....Elapsed time
	.....Total time

## Playing a Disc

- With Autoplay ON (refer to section on SETTINGS), play starts when you close the disc drawer.
- With Autoplay OFF, press ►.
- As the disc plays, the display shows the current track, and the elapsed playing time.
- Play will stop at the end of the disc.
- To stop play at any other time, press ■.
- You can resume play from the point at which you stopped. Press ► , when you see the Resume icon on the screen.
  - The Resume feature applies, not only to the disc in the player, but also to the last four discs you have played.
  - Simply reload the disc, press ► if Autoplay is off, and when you see the Resume icon on the screen , press ► again.

---

## Moving to another track

When a disc has more than one track (which you can see from both the OSD and the player display if you press ■, you can move to another track as follows:

- Press T-C, then press ► briefly during play to step forward to the next track.
- Press T-C, then press ◀ briefly during play to return to the beginning of the current track. Press ◀ **twice** briefly again to step back to the previous track.
- To go directly to any track, press T-C, then enter the track number using the numerical keys (0-9).

### NOTE

If the number has more than one digit, press the numerical keys (0-9) in rapid succession.

---

## Moving to another index

When a track has more than one index (as indicated on the disc case), you can move to another index as follows:

- Press ► briefly during play to step forward to the next index.
- Press ◀ briefly during play to return to the beginning of the current index. Press ◀ **twice** briefly again to step back to the previous index.
- To go directly to any index enter the index number using the numerical keys (0-9).

### NOTE

If the number has more than one digit, press the numerical keys (0-9) in rapid succession.

---

## Playback Control (PBC)

- Load a Video CD with PBC and press ►.
  - The PBC menu appears on the TV screen.(This will be different for different disc)
- Go through the menu with the keys indicated on the TV screen until your chosen passage starts to play. If a PBC menu consists of a list of titles, you can select a title directly.
- Enter your choice with the ◀/► or numerical keys (0-9).
- Press ► to start play of the title.
- Press RETURN to go back to the previous menu.
- PBC can be turn off in setup menu.

---

## Parental Control

- If you activate Parental Control, only discs that you have already authorized as suitable for all ages can be played as above.
- To play any other Video CD, the OSD will ask for the Parental Control PIN Code to be entered. When this has been done, play starts automatically.
- To activate Parental Control, and to authorize discs, see Activating Parental Control.

### NOTE

- If you forget your pin code, you can erase it when the code is requested as above, by pressing ■ four times. Parental Control will then be de-activated. To re-activate it, see Activating Parental Control.







---

## Still Picture and Step Frame

- To get a still picture, press **II** during play.
- To step forward to the next picture frame, press **II** again.
- To return to play, press **▶**.

---

## Search

- To search forwards or backwards through the disc at 4x normal speed, hold down **▶** or **◀** for about 1 second during play.
  - Search begins, and sound is muted.
- To step up to 32x normal speed, press **▶** or **◀** again.
- To go directly to 32x normal speed, press twice **▶** or **◀** until the  or  icon appears.
- To return to 4x normal speed, press **▶** or **◀** again.
- Search speed and direction are indicated on the screen for 2 seconds each time **▶** or **◀** is pressed.
- To end the search, press **▶**, **II**, or **■** as desired.

---

## Shuffle

This shuffles the playing order of tracks, if the disc has more than one.

- Press **SHUFFLE** during play.
  - The shuffle icon appears on the screen for about 2 seconds.
- As each track is played, its number disappears from the track calendar.
- To return to normal play, press **SHUFFLE** again.

---

## Repeat Track/Disc

- To repeat the currently-playing track, press **REPEAT** for about 1 second:
  - **REPEAT TRACK** appears on the player display.
- To repeat the entire disc, press **REPEAT** a second time for about 1 second;
  - **REPEAT** appears on the display.
- To exit Repeat mode, press **REPEAT** a third time for about 1 second.

---

## Repeat A-B

To repeat or loop a sequence in a title:

- Press **REPEAT A-B** at your chosen starting point;
  - **A-** appears on the player display.
- Press **REPEAT A-B** again at your chosen end point;
  - **A-B** appears on the display, and the repeat sequence begins.
- To exit the sequence, press **Repeat A-B** again.

---

## Time Search

The time search function allows you to start playing at any chosen time on the disc.

- Press TIME SEARCH during play for about 2 seconds.
  - The player will go into PAUSE mode.
  - TIME SEARCH menu appears showing elapsed playing time on current disc.
- Use the digit keys to enter the required start time. Enter hours, minutes and seconds from left to right in the time field box on the screen.
- Each time an item has been entered, the cursor will move to the next time field.
- Press PLAY to start playing.
  - The time field box will disappear and play resumes at the time entered.

---

## Playing an audio CD

---

### Playing a Disc

- With Autoplay on, play starts when you close the disc drawer.
- With Autoplay OFF, press ▶.
  - The disc starts to play; if the TV is on, the CD Play screen appears on the OSD.
  - Play will stop at the end of the disc.
- To return to play, press ▶.

---

### Search

- To search forwards or backwards through the disc at 4x normal speed, hold down ▶ or ◀ for about 1 second during play.
  - Search begins, and sound is partially muted.
- To step up to 8x normal speed, press ▶ or ◀ again.
  - Search goes to 8x speed, and the sound is muted.
- To go directly to 8x normal speed, hold down ▶ or ◀ until the ▶8 or ◀◀ icon appears.
- To return to 4x normal speed, press ▶ or ◀ again.
- If the TV is on, search speed and direction are indicated on the screen each time ▶ or ◀ is pressed.
- To end the search, press ▶, II, or ■ as desired.

---

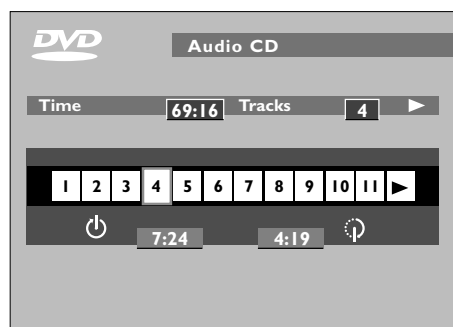
### Moving to another track

- Press ▶ briefly during play to step forward to the next track.
- Press ◀ briefly during play to return to the beginning of the current track. Press ◀ **twice** briefly again to step back to the previous track.
- To go directly to any track, enter the track number using the numerical keys (0-9).

---

### Shuffle

- Press SHUFFLE during play.
  - The order of the tracks is changed.
- As each track is played, its number disappears from the player display.
- To return to normal play, press SHUFFLE again.



---

## Repeat track/disc

- To repeat the currently-playing track, press REPEAT for about 1 second:
  - **REPEAT TRACK** appears on the display.
- To repeat the entire disc, press REPEAT a second time for about 1 second;
  - **REPEAT** appears on the display.
- To exit Repeat mode, press REPEAT a third time for about 1 second.

---

## Repeat A-B

To repeat or loop a sequence:

- Press REPEAT A-B at your chosen starting point;
  - **A-** appears on the player display.
- Press REPEAT A-B again at your chosen end point;
  - **A-B** appears on the display, and the repeat sequence begins.
- To exit the sequence, press REPEAT A-B again.

---

## Favorite Track Selection (FTS)

### NOTE

Favorite Track Selection (FTS) is only available for audio disc and can only be compiled with OSD On. To switch on or off FTS, refer to section on SETTINGS.

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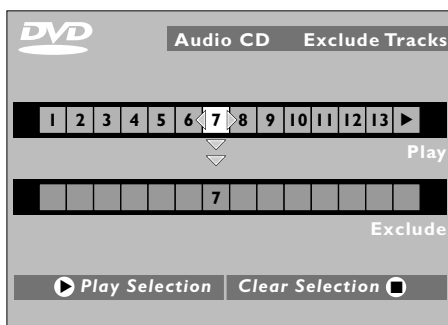
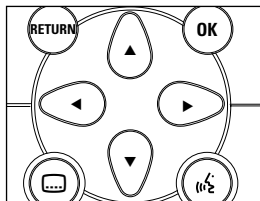
### Compiling an FTS program

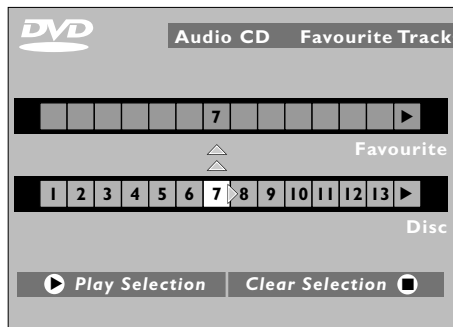
On this player, FTS programs can be compiled by selecting the tracks you want to play ("Track Selection") or by excluding the tracks you do not want to play ("Excluding Tracks")

#### To exclude Tracks:

- 1 Load a disc and go to Stop mode.
- 2 Press ◀.
- 3 Use the ◀ or ▶ key to move to the first track number you want to exclude.
- 4 Press the ▼ key.
- 5 Exclude further track numbers in the same way. If you change your mind, you can re-include any track number by moving back to it and pressing the ▲ key.
- 6 To clear your whole selection and start again, press ■.

When your FTS program is complete, press ▶ to start play, or RETURN to go back to Stop mode. In either case, the FTS program will be automatically memorized.





#### To select Tracks:

- 1 Load a disc and go to the Stop mode.
- 2 Press ►.
- 3 Use the ◀ or ▶ key to move to the first track number you want to select.
- 4 Press the ▲ key.
- 5 Select further track numbers in the same way. If you change your mind, you can de-select track numbers in reverse order by pressing the ▼ key as required.
- 6 To clear your whole selection and start again, press ■.

When your FTS program is complete, press ► to start play, or RETURN to go back to Stop mode. In either case, the FTS program will be automatically memorized.

#### NOTE

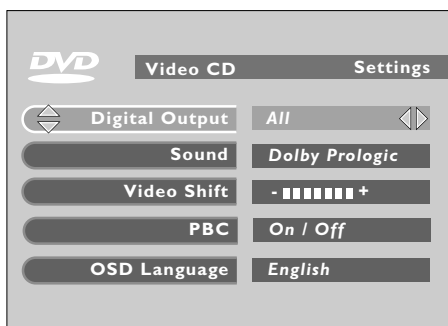
*You can have a total of at least 100 FTS programmed discs. If you exceeds that number, the least frequently played program(s) are automatically deleted.*

### Playing FTS

When Auto FTS is switched on and the disc is compiled with FTS program, playback starts immediately with the FTS program.

When Auto FTS is switched off and the disc is compiled with FTS program, first press the ◀ or ▶ to start the FTS program and then press ► to start playback of the FTS program.

# Settings



In the settings menu, you can customize your player to suit your own particular requirements.

## In Stop mode:

- Press SETUP to obtain the Settings screen.
- Move to the function you want to change using (▲/▼) then use (◀/▶) to scroll to your preferred option.
- To exit Settings menu, press RETURN or SETUP.

### Audio

The sound will be in the language you choose provided this is available on the disc in play. If not, speech will revert to the first spoken language on the disc.

### Subtitle

The subtitles will be in the language you choose provided this is available on the disc in play. If not, subtitles will revert to the first subtitle language on the disc.

### Parental Control

This is described separately under 'Parental Control'.

### TV Shape

Factory setting wide screen (16:9). If you have a regular (4:3) TV, you can choose Letterbox for a 'wide-screen' picture with black bars top and bottom, or Pan Scan, for a full-height picture with the sides trimmed. If a disc has Pan Scan, the picture then moves (scans) horizontally to keep the main action on the screen.

### Auto Play

Factory setting On means that discs starts to play automatically when loaded. Set to Off if you prefer to start play manually. Setting not effective if disc contains auto play information.

### Auto FTS

Factory setting On means that when a disc with an FTS program (see 'Compiling an FTS program') is loaded, the FTS program automatically starts to play. Set to Off if you prefer to control FTS play manually.

#### Digital Output

Factory setting Off means that there is no audio signal at the digital output. If you are connecting equipment with a digital input, change the setting to ALL.

If your equipment does not include a digital decoder, (e.g. digital speakers) set the digital output to PCM.

For VCD set, digital output to PCM.

#### Sound

Select Stereo, Dolby Surround or 3D Sound.

#### Video Shift

Factory setting is such that the video will be centered on your screen.

Use this setting to personalize the position of the picture on your TV by scrolling it to the left or right.

#### PBC Setting

Factory setting is PBC on, this can be turned off to skip on disc menu.

#### OSD Language

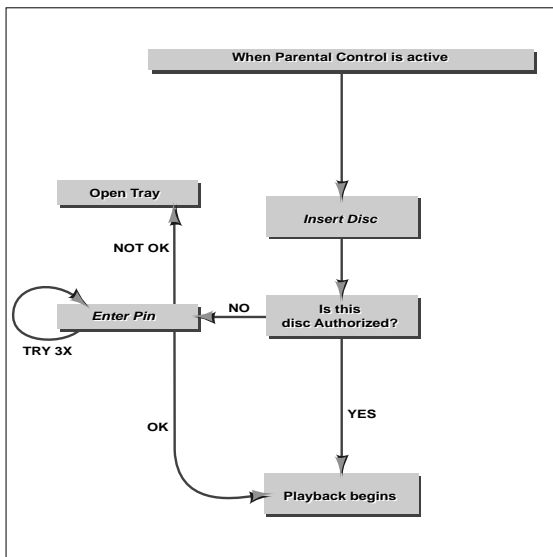
The player's on-screen display will be in the language you choose.

---

# Parental Control

## Activating Parental Control

This can only be done in Stop mode.



- 1 Press Setup to obtain the Settings menu.
- 2 Move to Parental Control using the (▲/▼) keys.
- 3 Press ◀ or ▶ to change Parental Control to Active.
- 4 You will be asked to enter a 4-digit pin code of your own choice, and then to confirm your choice.
  - Enter the 4-digit pin code again to confirm.
- 5 Press Setup to exit the Settings menu.
- ***This code must then be entered to play any DVD-Video or Video CD disc, unless you have previously authorized the disc as suitable for all ages.***
- To de-activate Parental Control repeat the above procedure.

---

## Authorizing discs

- 1 Load the disc you wish to authorize and close the tray.
  - The OSD will ask for your pin code.
- 2 Enter your pin code.
  - If your pin code is correct, play will start automatically.
  - If your pin code is not correct, it will allow you two more tries. If it is still incorrect, the disc tray will open.
- 3 Go to Stop, press ■.
- 4 Select Parental Control on the OSD by pressing ▶.
  - The OSD will ask you to enter your pin code.
- 5 The disc is now authorized, and will play in the normal way, without the pin code.

To cancel your authorization, repeat steps 4 and 5.

### NOTE

*You can have a total of 50 authorized discs. If you exceed that number, the least frequently played disc(s) are automatically de-authorized.*

# Before requesting service

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If it appears that the DVD-Video player is faulty, first consult this checklist. It may be that something has been overlooked. **Under no circumstances should you try to repair the player yourself; as this will invalidate the warranty. Only qualified service personnel can remove the cover or service this player.**

Look for the specific symptom(s). Then perform only the actions listed to remedy the specific symptom(s).

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## Symptom

## Remedy

---

### No power

Check if the on/off button on the front of the player is set to on.  
Check if both plugs of the mains cord are properly connected.  
Check if there is power at the AC outlet by plugging in another appliance.

---

### No picture

Check if the TV is switched on.  
Select the same channel and source on the TV as on the player.  
Check the video connection.

---

### Distorted picture

Check the disc for fingerprints and clean with a soft cloth, wiping from center to edge.  
Sometimes a small amount of picture distortion may appear. This is not a malfunction.

---

### Completely distorted picture or no color with player menu.

If the picture is distorted completely or if the picture rolls vertically, make sure the NTSC/PAL setting at the DVD player matches the video signal of your television.  
If your TV video signal is NTSC, select the NTSC setting at the DVD player.  
If your video signal is PAL, select the PAL setting - see **NTSC/PAL SETTINGS**.

---

### Distorted or Black/White picture with DVD or Video CD.

The disc format does not match your TV's video signal (PAL/NTSC).

---

### No sound

Check audio connections.  
If you are using a HiFi amplifier, try another sound source.  
Check the Digital Output menu is selected to ALL if a DTS disc is played.  
Ensure there is a DTS decoder connected when selecting DTS.

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### Distorted sound from HiFi amplifier.

Check to make sure that no audio connections are made to the amplifier phono input.

---

### No audio at digital output.

Check the digital connections.  
Check the settings menu to make sure that the digital output is set to on.  
Check if the audio format of the selected audio language matches your receiver capabilities.  
For VCD set digital output to PCM

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### Disc can't be played.

Ensure the disc label is facing up.  
Clean the disc.  
Check if the disc is defective by trying another disc.  
Check to see if the disc is defective, badly scratched or warped (not flat)

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### No return to start-up screen when disc is removed.

Reset by switching the player off, then on again.  
Check to see if the program requires another disc to be loaded.

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### The player does not respond to the remote control.

Aim the remote control directly at the sensor on the front of the player.  
Remove any obstacles between the player and the remote control.  
Inspect or replace the batteries in the remote control.

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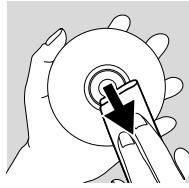
### Buttons do not work.

In order to completely reset the player, unplug the AC cord from the AC outlet for a few seconds.



## Cleaning discs

Some problems occur because the disc inside the player is dirty. To avoid these problems clean your discs regularly, in the following way:



- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.

**Caution: Do not use solvents such as benzine, thinner, commercially available cleaners, or anti-static spray intended for analog discs.**

# Specifications

## PLAYBACK SYSTEM

DVD-Video  
Video CD  
CD (CD-R and CD-RW)  
SVCD

## OPTICAL READOUT SYSTEM

Type	Semiconductor laser GaAlAs	
Numerical Aperture	0.60 (DVD)	0.45 (VCD/CD)
Wave length	650 nm (DVD)	780 nm (VCD/CD)

## DVD DISC FORMAT

Medium	Optical Disc	
Diameter	12cm (8cm)	
Playing time (12cm)	One layer	2.15 h*
	Dual layer	4 h*
	Two side	4.30 h*
	Single layer	
	Two side	8 h*
Dual layer		

## TV STANDARD

### EUROPE

### USA

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

## VIDEO FORMAT

Digital Compression	MPEG2 for DVD, MPEG1 for VCD
DA Converter	10 bits

## DVD

Horiz. Resolution	720 pixels**	720 pixels**
Vertical Resolution	576 lines	480 lines

## VCD

Horiz. Resolution	352 pixels	352 pixels
Vertical Resolution	288 lines	240 lines

## VIDEO PERFORMANCE

Video output	1 Vpp into 75 ohm
S-Video output	Y: 1 Vpp into 75 ohm C: 0.3 Vpp into 75 ohm

## AUDIO FORMAT

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

DA Converter 24 bits  
Analog Stereo & Dolby Pro Logic (VCD & downmix from AC-3 multi-channel sound)  
SRS 3D (Virtual 3D Surround)

## AUDIO PERFORMANCE

DA Converter	24 bits	
DVD	fs 48 kHz	4 Hz - 22 kHz
Video CD	fs 44 kHz	4 Hz - 20 kHz
CD	fs 44.1 kHz	4 Hz - 20 kHz
Signal-Noise (1kHz)		102 dB
Dynamic Range (1kHz)		96 dB
Crosstalk (1kHz)		110 dB
Distortion and Noise (1kHz)		93 dB

## CONNECTIONS

Video Output	Cinch 2x / S-Video
Audio L+R output	Cinch 2x
Digital Output	1 coaxial IEC958 for CDDA / LPCM IEC1937 for MPEG1/2 ,AC-3 and DTS
S-Video Output	Mini DIN, 4 pins

## CABINET

Dimensions(w x h x d)	435 x 92 x 320 mm
Weight	Approx. 4 Kg

## PACKAGE CONTENTS

DVD-Video Player  
Remote Control & Batteries  
AC Power cord  
User Manual  
Audio/Video cable

## OTHER PLAYER FEATURES

Screen Saver  
Multi On Screen Display Language  
Resume  
Audio Output Selection  
PBC ON/OFF  
Time Search

*Some of the functions described in this owner manual may not work with some discs.*

\* typical playing time for movie with 2 spoken languages and 3 subtitle languages.  
\*\* equivalent to 500 lines on your TV

*Specifications subject to change without prior notice*