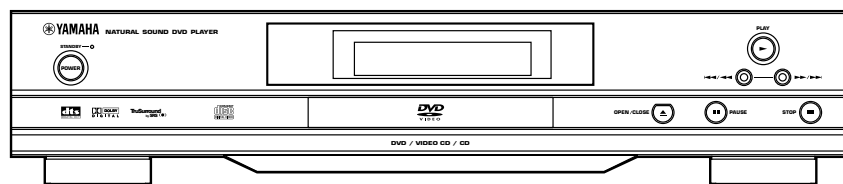




DVD/VIDEO CD/CD PLAYER
LECTEUR DE DVD

DVD-S520

*OWNER'S MANUAL
MODE D'EMPLOI
BEDIENUNGSANLEITUNG
BRUKSANVISNING
MANUALE DI ISTRUZIONI
MANUAL DE INSTRUCCIONES
GEBRUIKSAANWIJZING*



Important Note

DK

Advarsel:

Laserrudstråling ved åbning når sikkerhesafbrydere er ude af funktion. Undgå u tsættelse for stråling.

Bemærk:

Netafbryderen POWER er sekundært indkoblet og afbryder ikke strømmen fra nettet. Den indbyggede netdel er derfor tilsluttet til lysnettet så længe netstikket sidder i stikkontakten.

N

Observer:

Nettbryteren POWER er sekundært innkoplet. Den innebygdenetdelen er derfor ikke frakoplet nettet så lenge apparatet er tilsluttet nettkontakten.

S

Klass 1 laserapparat

Varning!

Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kann användaren utsättas för laserstråling, som överskrider gränsen för läserklass 1.

Observera!

Strömbrytaren POWER är sekundärt kopplad och inte bryter strömmen från nätet. Den inbyggda nät delen är därför ansluten till elnätet så länge stickproppen sitter i v ägguttaget.

SF

Luokan 1 laserlaite + Klass 1 laserapparat

Varoitus!

Laitteen käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle lasersäteilille.

Huom.

Toiminnanvalitsin POWER on kytketty toisiopuolelle, eikä se kytke laitetta irti sähköverkosta. Sisäänrakennettu verkko-osa on kytkettynä sähköverkkoon aina silloin, kun pistoke on pistorasiassa.

VARO!

AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

WARNING!

OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.

Important Note for Users in the UK

Mains plug

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

- 1 Remove fuse cover and fuse.
- 2 Fix new fuse which should be a BS1362 5 Amp, A.S.T.A. or BSI approved type.
- 3 Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 5 Amp. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5 Amp.

Note: The severed plug must be disposed of to avoid a possible shock hazard should it be inserted into a 13 Amp socket elsewhere.

How to connect a plug

The wires in the mains lead are coloured with the following code: blue = neutral (N), brown = live (L).

As these colours may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:

- Connect the blue wire to the terminal marked N or coloured black.
- Connect the brown wire to the terminal marked L or coloured red.
- Do not connect either wire to the earth terminal in the plug, marked E (or e) or coloured green (or green and yellow).

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the two wires.

Copyright in the U.K.

Recording and playback of material may require consent. See Copyright Act 1956 and The Performer's Protection Acts 1958 to 1972.

General information

CAUTION

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

ATTENTION

L'emploi de commandes, de réglages ou un choix de procédures différents des spécifications de cette brochure peut entraîner une exposition à d'éventuelles radiations pouvant être dangereuses.

ACHTUNG

Die Verwendung von Bedienungselementen oder Einstellungen oder die Durchführung von Bedienungsvorgängen, die nicht in dieser Anleitung aufgeführt sind, kann zu einem Kontakt mit gefährlichen Laserstrahlen führen.

OBSERVERA

Användning av kontroller och justeringar eller genomförande av procedurer andra än de som specificeras i denna bok kan resultera i att du utsätter dig för farlig strålning.

ATTENZIONE

Usò di controlli o regolazioni o procedure non specificamente descritte può causare l'esposizione a radiazioni di livello pericoloso.

PRECAUCIÓN

El uso de los controles o los procedimientos de ajuste o utilización diferentes de los especificados en este manual pueden causar una exposición peligrosa a la radiación.

VOORZICHTIG

Gebruik van bedieningsorganen of instellingen, of uitvoeren van handelingen anders dan staan beschreven in deze handleiding kunnen leiden tot blootstelling aan gevaarlijke stralen.

The unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this unit itself is turned off. This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power.

L'appareil n'est pas isolé de la source d'alimentation aussi longtemps qu'il reste branché sur une prise murale, même lorsqu'il est éteint. Il est alors dit en mode «Veille». Dans ce mode, l'appareil consomme très peu de courant.

Das Gerät ist nicht vom Netz getrennt, solange der Netzstecker noch mit der Wandsteckdose verbunden ist, selbst wenn das Gerät ausgeschaltet wurde. Dieser Betriebszustand wird als Bereitschaftsmodus bezeichnet. In diesem Zustand nimmt das Gerät eine sehr geringe Menge Strom auf.

Enheten är inte urkopplad från nätet så länge som den är ansluten till vägguttaget även om enheten i sig självt är avstängd. Detta kallas för beredskapsläge och i detta tillstånd konsumerar apparaten minimalt med ström.

L'unità non è scollegata dall'impianto elettrico di casa soltanto che rimane collegata ad una presa di corrente anche se è spenta. Questo modo viene chiamato "modo di attesa". In esso, l'unità consuma una quantità molto bassa di energia per mantenere in memoria le impostazioni da voi fatte.

Aunque el propio aparato se encuentre apagado, éste no se desconectará de la fuente de CA siempre que se mantenga enchufado a la toma de corriente. Este estado recibe el nombre de "modo de espera". En este estado, este aparato ha sido diseñado para consumir una cantidad muy pequeña de energía.

De stroomtoevoer naar het toestel is niet afgesloten zolang de stekker nog in het stopcontact zit, zelfs niet als het toestel zelf uitgeschakeld is. Deze toestand wordt "standby" (waak- of paraatstand) genoemd. Het toestel is ontworpen om in deze toestand



The DVD-VIDEO player is in conformity with the EMC directive and low-voltage directive.

CAUTION VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM

ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING UNDGÅ UDSÆTTELSE FOR STRÅLING

ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN

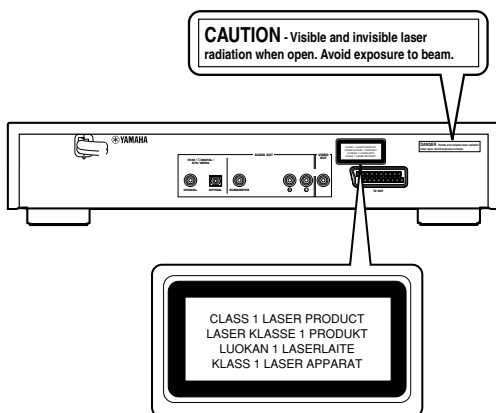
VARNING SYNLIG OCH OSYNLIG LASERSTRÅLNING NÅR DENNA DEL ÄR ÖPPNAD BETRÄKTA EJ STRÅLEN

VARO! AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASER SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN

VORSICHT SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN

DANGER VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID DIRECT EXPOSURE TO BEAM

ATTENTION RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE EXPOSITION DANGEREUSE AU FAISCEAU



CAUTION: READ THIS BEFORE OPERATING YOUR UNIT.

- 1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- 2 Install this unit in a well ventilated, cool, dry, and clean place with at least 2.5 cm (1 inch) above, behind and on the both sides of this unit - away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold.
- 3 Position this unit away from other electrical appliances, motors and transformers to avoid humming sounds, do not place this unit where it may get exposed to rain or any kind of liquid to prevent fire or electrical shock.
- 4 Avoid extreme temperature swings or excessive use of humidifier in the room where this unit is installed to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.
- 5 Do not cover this unit with a newspaper, a tablecloth, a curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit and/or personal injury.
- 6 Avoid installing is unit in a place where foreign objects and liquid might fall. It might cause a fire, damage to this unit and/or personal injury. Do not place the following objects on this unit:
 - Other components, as they may cause damage and/or discoloration on the surface of this unit.
 - Burning objects (i.e., candles), as they may cause fire, damage to this unit and/or personal injury.
 - Containers with liquid in them, as they may cause an electrical shock to the user and/or damage to this unit.
- 7 Do not operate this unit upside-down. It may overheat, possibly causing damage.
- 8 Do not use force on switches, controls or connection cables. Never pull the cables when disconnecting them.
- 9 Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may result in fire or other accidents. YAMAHA will not be held responsible for any damage resulting from the use of this unit with a voltage other than that specified.
- 10 Do not attempt to clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
- 11 Disconnect the power cord from the wall outlet when not planning to use this unit for a long period of time, or during an electrical storm, as they may cause damage by lightning.
- 12 Do not attempt to modify or fix this unit. Contact the qualified YAMAHA service personnel when any service is needed. Cabinet should never be opened for any reasons.
- 13 Be sure to read 'TROUBLESHOOTING' section regarding common operating errors before concluding that this unit is faulty.
- 14 When moving this unit, be sure to first disconnect the power cord from the AC outlet and disconnect all cords connecting this unit to other equipment.

NOTE:

Pictures shown maybe different between countries.
Never make or change connections with the power switched on.

When playing DTS encoded CDs, excessive noise will be heard from the analog stereo outputs. To avoid possible damage to the audio system, the consumer should take proper precautions when the analog stereo outputs of the player are connected to an amplification system. To enjoy DTS Digital Surround™ playback, an external 5.1-channel DTS Digital Surround™ decoder system must be connected to the digital output of the player.

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.

CAUTION

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

LASER

Type	Semiconductor laser GaAlAs
Wave length	650 nm (DVD) 780 nm (VCD/CD)
Output Power	7 mW (DVD) 10 mW (VCD/CD)
Beam divergence	60 degree

Contents

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

TruSurround™
by **SRS** 

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.

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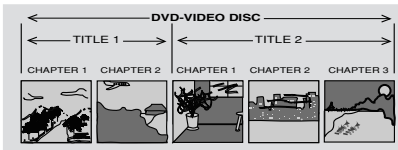
Introduction

DVD Video Introduction

Your DVD Video player will playback digital video discs conforming to the universal DVD Video standard. The unique features of DVD Video, such as selection of sound track, subtitle languages and different camera angles (disc dependent), are all supported. In addition to DVD Video discs, you will be able to playback all Video CDs, SVCDs and Audio CDs.

DVD Video

You will recognise DVD Video discs by the logo shown. Depending on the material on the disc (a movie, video clips, a drama series, etc.) the disc may have one or more Titles.



The region code for this set is 2.

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



Video CD

You will recognise Video CDs by the logo shown.



Super Video CD (SVCD)

SVCDs are based on the Super-VCD IO Standard, referring to the Standard of Electronics Industry of the People's Republic of China.

Audio CD

Audio CDs contain music tracks only. You will recognise Audio CDs by their logo shown.



MP3 (MPEG Audio Layer-3)

This player supports the MP3 format which contains compressed music tracks.

Notes:

- CD-R and CD-RW cannot be played unless finalized.
- Some discs cannot be played depending on the disc characteristics or recording conditions.

Unpacking

First check and identify the contents of your DVD Video player package.

You should have the following items.

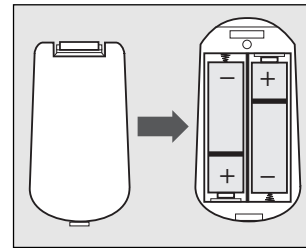
- DVD Video player
- Remote Control with batteries
- Audio/Video cable
- Owner's Manual

If any item is damaged or missing, contact your retailer. Keep the packaging materials for future transportation.

Remote Control Battery Installation

- Insert batteries as indicated inside the battery compartment.

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

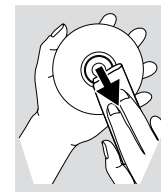


Environmental Information

- Your system consists of materials which 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.

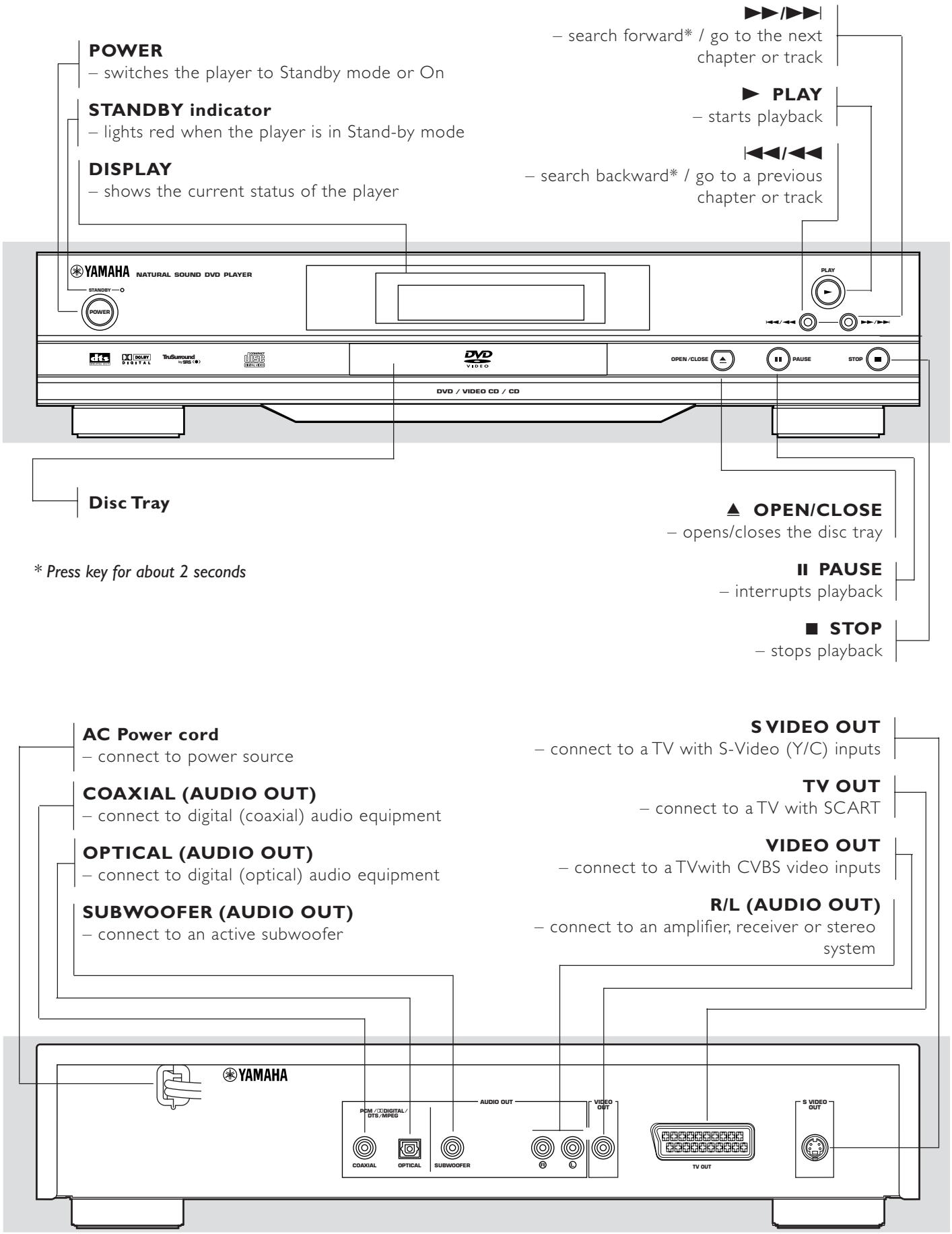
Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre out, in a straight line.
- Do not use solvents such as benzine, thinner, commercially available cleaners, or anti-static spray intended for analog discs.



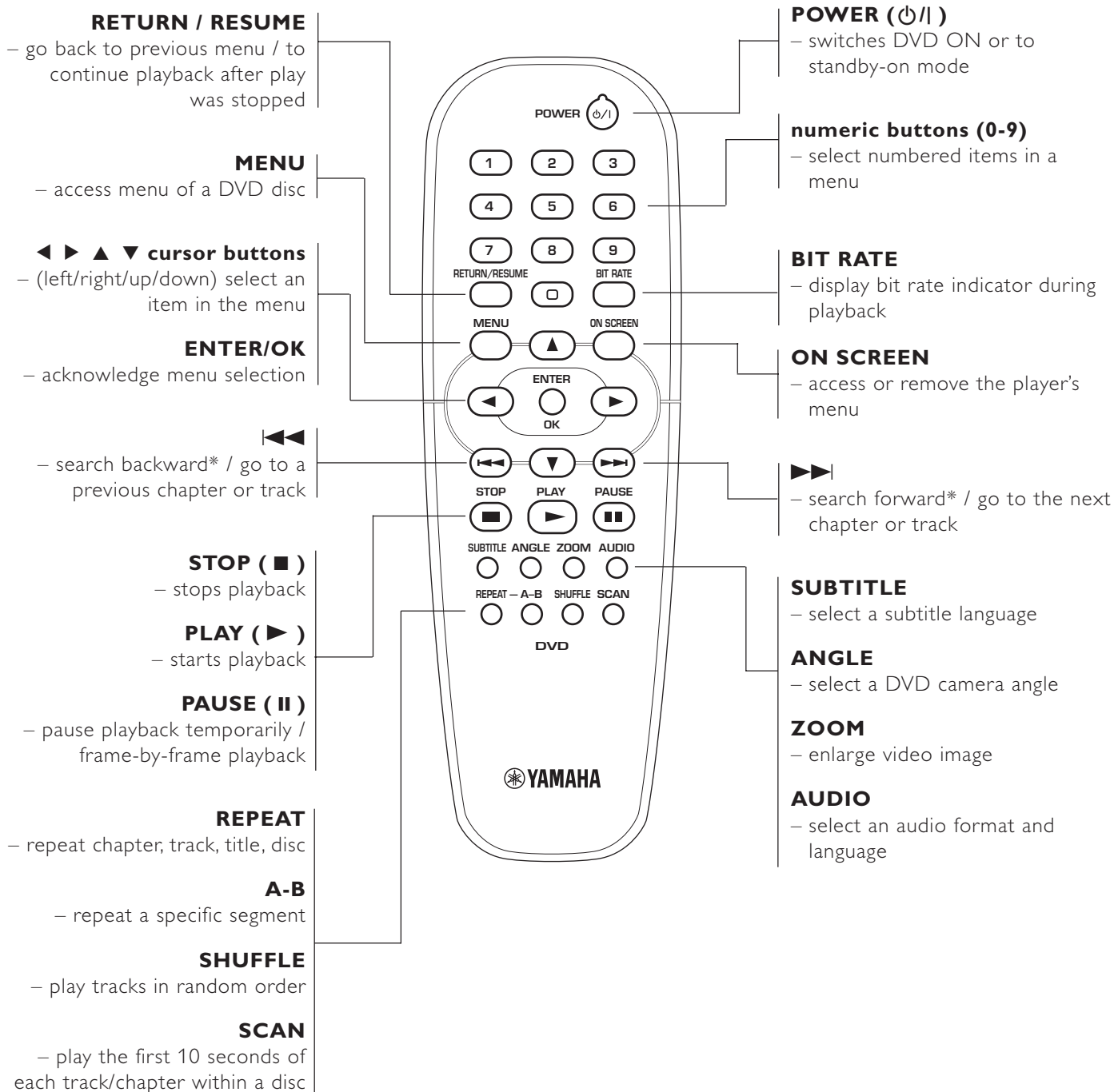
Functional Overview

Front and Rear Panels



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

Remote Control



* Press key for about 2 seconds

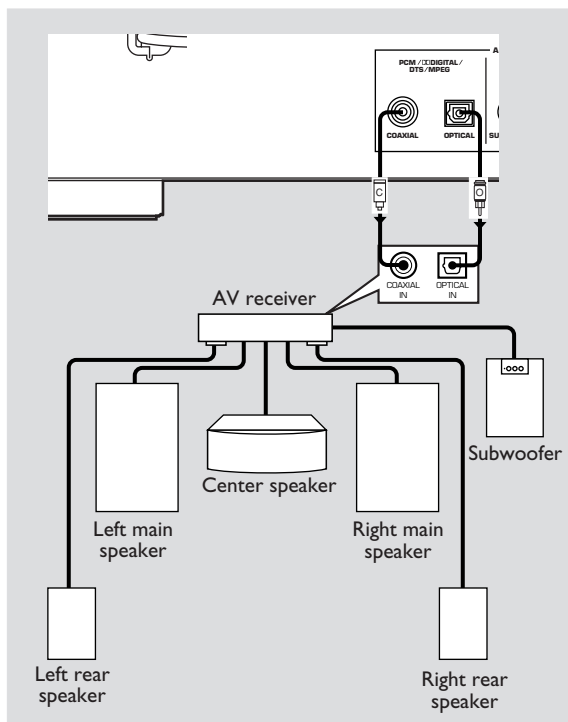
Preparation

General Notes

- Depending on the 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 other equipment as necessary to make the best connections.
- Do not connect the player via your VCR. The video quality could be distorted by the copy protection system.
- Do not connect the player's audio out jack to the phono in jack of your audio system.

Digital Connections

The player has COAXIAL and OPTICAL digital out jacks. Connect one or both of them to your AV receiver equipped with Dolby digital, DTS, or MPEG decoder using each specific cable (separate purchase).



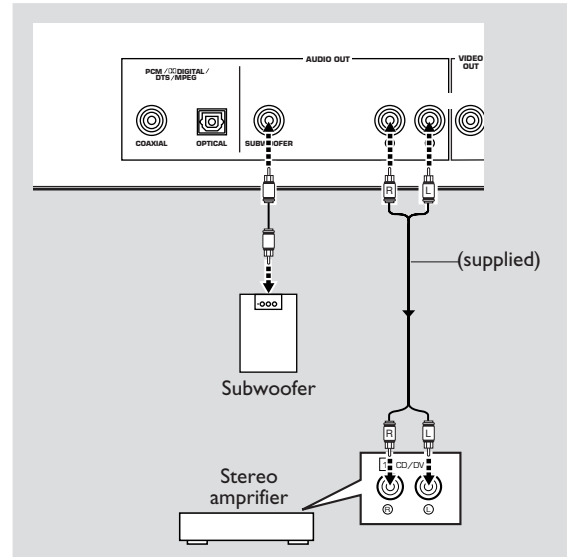
You will need to activate the player's digital output (see 'Personal Preferences').

Note:

– If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all. Make sure to select the appropriate audio format at menu screen included on the disc. Pressing AUDIO once or more may change not only audio languages but also audio formats, and the selected format appears for several seconds on the status window.

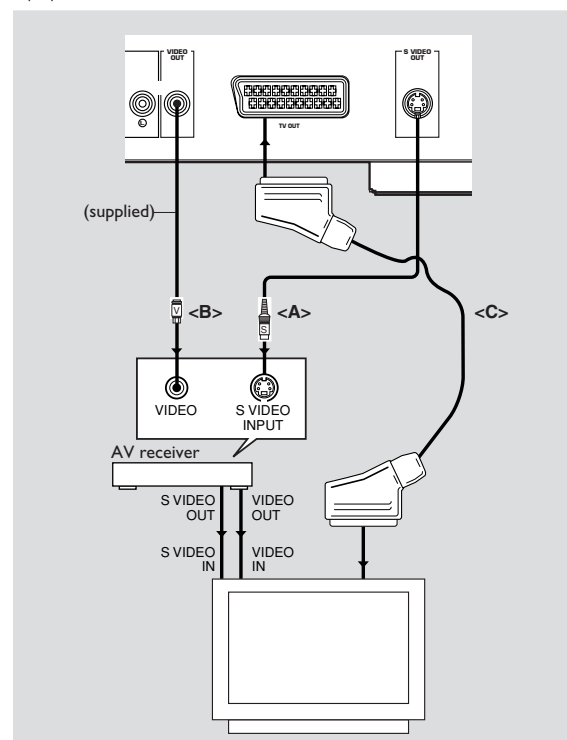
Analog Connections

Use RCA audio cable supplied with the player to connect AUDIO OUT L (left) and R (right) jacks of the player to corresponding input jacks of your audio equipment such as Stereo amplifier. You can connect a subwoofer to the player's SUBWOOFER (AUDIO OUT) jack.



Video Connections

If your AV receiver has video output jacks, connect your receiver (and then to your TV) so that you can use one TV for several different video sources (LD, VCR etc.) by simply switching the input source selector of your receiver. The player has three types of video output jacks. Use one of them in accordance with the input jacks of the equipment to be connected.



S-Video terminal <A>

S (separate) video connection achieves a clearer picture than composite video connection by separating color and luminance when transmitting signals. Use commercially available S-video cable. Receiver (and TV) with S-video input is required.

Composite Video terminal

Use RCA video cable supplied with this unit when connecting the DVD player to your receiver or TV.

SCART Connection <C>

If your TV has only terminal for video input, and you want to connect it directly to the DVD player, you can use this player's SCART output jack.

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 Unplug the DVD player from the AC outlet.
- 2 Press and hold ■ and ►►, on the front of the DVD player. While holding ■ and ►►, plug in the AC power cord.
- 3 After PAL or NTSC appears on the display of the DVD player, release ■ and ►► at the same time. The PAL or NTSC indicator that appears on the display indicates the current setting.
- 4 To change the setting, press ►► within three seconds. The new setting (PAL or NTSC) will appear on the display.

NTSC/PAL Conversion

This player is equipped with a NTSC/PAL conversion feature to convert the video output of the disc to match your TV system. The conversions supported are as below:

Type	Disc Format	Output format Selected mode		
		NTSC	PAL	AUTO
DVD	NTSC	NTSC	PAL60	NTSC
	PAL	Not Supported	PAL	PAL
VCD	NTSC	NTSC	PAL60	NTSC
	PAL	NTSC	PAL	PAL

Select among NTSC, PAL and AUTO. See 'Personal Preferences' for operational procedure.

Notes:

- AUTO can only be selected when using a TV that has both the NTSC and PAL systems.
- Slight picture distortions may occur due to this conversion. This is normal. Thus, the AUTO format is most suitable for the best picture quality.

General Explanation

About this manual

This manual gives the basic instructions for operating the DVD player. Some DVDs require specific operation or allow only limited operation during playback which may not respond to all operating commands. When this occurs, the symbol ✕ appears on the TV screen, indicating that the operation is not permitted by the player or the disc.

Remote control operation

- Unless 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. Corresponding keys on the front panel of the player can also be used.

Menu bar operation

- A number of operations can be carried out via the menu bar on the screen. The menu bar can be accessed by pressing the cursor keys on the remote control.
- Pressing **ON SCREEN** while the menu bar is displayed will clear the menu bar from the screen.
- The selected item will be highlighted and the appropriate cursor keys to operate will be displayed below the icon.
- The symbols < or > indicate more items are available at the left/right of the menu bar: Press ◀ or ▶ to select these items.

Initial Setup (Virgin Mode)

General

In 'Initial Setup' you may have to set your preferences for some of the player's features. *(not applicable for all models)*

Operation

After switching on the player for the very first time, the 'Initial Setup Screen' will appear.
The menu for the first item to be set is displayed and the first option is highlighted.

- Use the ▼ ▲ to go through the options in the menu. The icon of the selected option will be highlighted.
- Use **ENTER/OK** to confirm your selection and to go to the next menu.

Note:

- Preferences have to be set in the order of which the item menus will appear on the screen.
- The 'Initial Setup' screen will only disappear after the settings for the last item have been confirmed.
- If any keys other than ▼ ▲ or **ENTER/OK** are pressed, ✕ will appear on the screen.
- If the player is switched off while setting personal preferences, all preferences have to be set again after switching the player on again.

The following items may have to be set in Initial Setup:

Menu language

You can choose from different languages. The On Screen Menus will be displayed in the language available on the player.

Audio language

You can choose from different languages. If available on the disc, the player will play the audio in the selected language. If the selected language is not available, speech will revert to the first spoken language on the disc.

Subtitle language

You can choose from different subtitle languages. If available on the disc, subtitles will be in the language chosen. If the selected language is not available, subtitles will revert to the first subtitle language on the disc.

TV Shape

If you have a wide screen (16:9) TV, select 16:9.

If you have a regular (4:3) TV, select 4:3.

If you have a 4:3 TV, you can also select between:

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 supports the format, the picture will be shown accordingly.

Country

Select your country. This is used as input for the 'Parental Control' feature (see 'Access Control').






Note:

- All these items may have to be set during 'Initial Setup'. After that, they can always be changed in the Personal Preferences Menu.

Menu Bar/Status Window

As there are multiple menu-bars, the items on the menu-bar are arranged according to usage, availability of direct access keys. Pressing **ON SCREEN** will toggle through menu-bar-1, menu-bar-2, menu-bar-3 and OFF.





Menu-bar-1

-  User Preference Settings
-  Current Subtitle Language
-  Current Audio Language
-  Smart Colour
-  Sound mode















Menu-bar-2

-  Frame by Frame
-  Slow Motion
-  Scan Speed
-  Camera Angle
-  Enlarge Picture

Menu-bar-3

-  Title
-  Chapter
-  Time Search
-  Favourite Track Selection






Temporary Feedback Field Icons

	Scan
	Repeat All
	Repeat Title
	Repeat Track
	Repeat Chapter
	Shuffle
	Shuffle Repeat
	Repeat A to end
	Repeat A-B
	Angle
	Child Lock On
	Child Safe
	Resume
	Action prohibited

Personal Preferences

You can set your own personal preferences on the player.

General operation:

- Press **ON SCREEN** on the remote control.
- Select  in the menu bar:
→ The Personal Preferences menu appears.
- Use the     to toggle through the menus, submenus and submenu options.
→ When a menu item is selected, the cursor keys (on the remote control) to operate the item are displayed next to the item.
- Press **ENTER/OK** to confirm and return to the main menu.
The following items can be adapted:

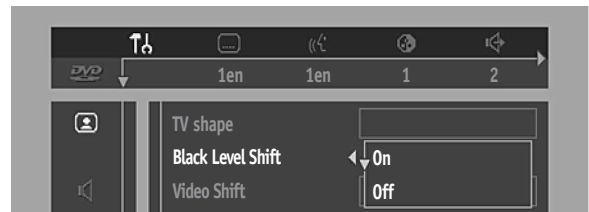
Picture

– TV Shape

See 'Initial Setup'

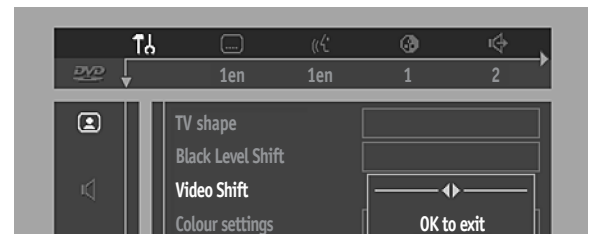
– Black level shift (NTSC only)

Select On for adapting the colour dynamics to obtain richer contrasts.



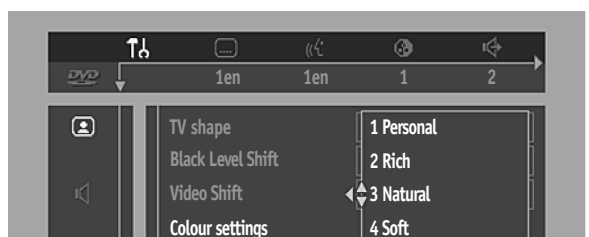
– Video shift

The factory centres the video on your screen. Use this setting to personalize the position of the picture on your TV by scrolling it to the left or right.



– Colour settings

You can select one of five predefined sets of colour settings and one set (Personal) which you can define yourself.



– Personal colour

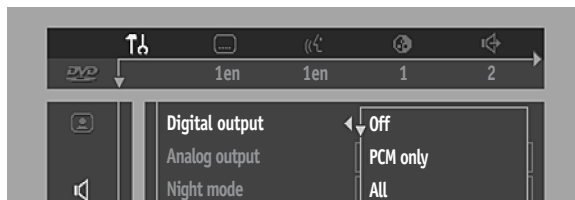
Allows you to fine-tune the selected colour settings saturation, brightness and contrast.

Sound

– Digital output

Factory setting: ALL. This means digital output is on. If you are not connecting to equipment with a digital input, change the setting to Off.

If your equipment doesn't include a digital multi-channel decoder, set the digital output to PCM only (Pulse Code Modulation).

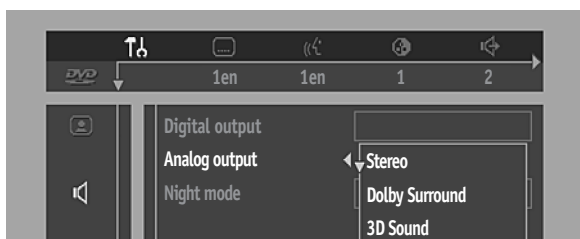


Note:

- When the setting is ALL, make sure that the selected audio format of the disc you play matches the connected equipment's capability. If a digital signal which the equipment cannot handle is output, there may be a noise and that could damage your ears and your speakers.
- When CDs were put on the market in the early stage, high tones from some of them would be heard as punch lacked.

– Analog output

Select Stereo, Dolby Surround or 3D Sound (TruSurround) to match your system's playback capability.



– Night Mode

Optimizes the dynamics of the sound for low volume playback.

– Karaoke vocal

Put this setting to On only when a multi-channel karaoke DVD is being played. The karaoke channels on the disc will then be mixed into a normal stereo sound.

– Subwoofer cut-off

The frequency of the subwoofer output can be set to HIGH (200Hz) or LOW (100Hz) to match your system's playback sound quality.

– PCM Output

Allows to select PCM digital output between 48kHz and 96kHz. Some 96kHz DVD discs are copyright protected. If your selection is 96kHz, the digital output is muted to comply the standards. Please select 48kHz to enable the output.

Language

Select the required Menu, Audio and Subtitle language. See 'Initial Setup'.

Audio language and Subtitle language can also be adapted via the Menu bar on the screen.

Features

– Access Control

Access Control contains the following features:

Child Lock - When Child Lock is set to On, a 4-digit code needs to be entered in order to playback discs.

Parental control - Allows the conditional presentation of DVDs containing Parental Control information (see 'Access Control').

– Status Window

Displays the current status of the player and appears with the menu bar. When disc playback is stopped, it is displayed with the 'Temporary Feedback Field' in the default screen.

See 'On-Screen Display' information;

Factory setting is On. Select Off to suppress display of the Status Window.



– Low Power Standby

This setting is effective for Europe and U.K. models, when the DVD player is connected between your TV and VCR with SCART cables. If you use TV and VCR while the DVD player is turned off, set Low Power Standby to Off. Otherwise VCR does not function.

– PBC

Some Video CDs have PBC (Playback control). When activated, a menu screen included on the disc appears soon after playback starts.

– Help text

When set to On, help text describes the icons selected. Select Off if you no longer require the help text.

Operation

Loading Discs

- 1 Press ▲ on the front of the player to open disc tray.
- 2 Load your chosen disc in the tray, label side up.
- 3 Press ▲ again, to close the tray.
→ **reading** appears in the status window and **READING** on the player display, and playback starts automatically.

Note:

– If 'Child Lock' is set to ON and the disc inserted is not authorised, the 4-digit code must be entered and/or the disc must be authorised (see 'Access Control').

Playing a DVD Video and Video CD disc

Playing a disc

- After inserting the disc and closing the tray, playback starts automatically and the status window of the player display shows the type of disc loaded, as well as disc's information and playing time.
- 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 ▲/▼, ◀▶ to highlight your selection, then press **ENTER/OK**.
- The currently playing title and chapter number are displayed.
- Playback may stop at the end of the Title, and then may return to the DVD menu. To go on to the next title, press ▶.
- To stop playback, press ■.
- The default screen will appear, giving information about the current status.
- You can resume playback from the point at which you stopped playback. Press ▶; when you see the Resume icon ▶ on the screen, press ▶ again.
→ 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 and press **RETURN/RESUME** on the remote control. Or, press ▶ when you see the Resume icon ▶ on the screen, then press ▶ again.

Note:

– DVDs may have a region code. Your player will not play discs that have a region code different from the region code of your player.



General Features

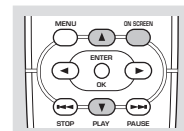
Note:

– Unless stated, all operations described are based on remote control operation. A number of operations can also be carried out via the menu bar on the screen.

Moving to another title/chapter

When a disc has more than one title or chapter, you can move to another title/chapter as follows:

- Press **ON SCREEN**, then select **T** or **C** in the menu bar.
- Press ▲ or ▼ to select a title/chapter.

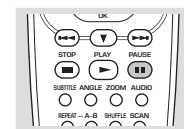


Slow Motion

- Select **S** (Slow Motion) in the menu bar.
- Use the ▼ keys to enter the SLOW MOTION menu.
→ Playback will pause.
- Use ◀▶ to select the required speed: -1, -1/2, -1/4 or -1/8 (backward), or +1/8, +1/4, +1/2 or +1 (forward).
- Select 1 or press ▶ to play the disc at normal speed again.
- If **||** is pressed, the speed will be set to zero (PAUSE).
- To exit slow motion mode, press ▲.
(Playback continues at the selected speed.)

Still Picture and Frame-by-frame playback

- Select **F** (Frame by Frame) in the menu bar.
- Use ▼ to enter the step by step menu.
→ Playback will pause.
- Use ◀▶ to select the previous or next picture frame.
- To exit frame by frame playback, press ▲.



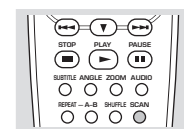
You can also step forward by pressing **||** repeatedly on the remote control.

- To resume playback, press ▶.

Scan







Scanning plays the first 10 seconds of each chapter/track on the disc.

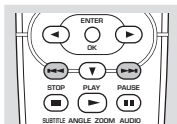
- Press **SCAN**.
- To continue playback at your chosen chapter/track, press **SCAN** again or press ▶.



Note: This feature may not be available with some DVDs.

Search

- Select  (Scan Speed) in the menu bar.
- Use  to enter the FAST MOTION menu.
- Use   to select the required speed: -32, -8 or -4 (backward), or +4, +8, +32 (forward).
- Select 1 or press  to play the disc at normal speed again.
- To exit FAST MOTION mode, press . (Playback continues at the selected speed.)



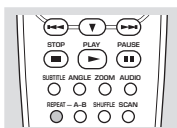
To search forward or backward through different speeds, you can also hold down   or  .

Repeat

DVD Video Discs

Repeat chapter/title/disc

- To repeat the current chapter, press **REPEAT**.
- **REPEAT CHPT** appears on the player display.
- To repeat the current title, press **REPEAT** a second time.
- **REPEAT TITL** appears on the player display.
- To repeat the entire disc, press **REPEAT** a third time. (This feature may not be available with some discs.)
- **REPEAT DISC** appears on the player display.
- To exit Repeat mode, press **REPEAT** a fourth time.



Video CDs

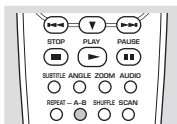
Repeat track/disc

- To repeat the current track, press **REPEAT**.
- **REPEAT TRK** appears on the player display.
- To repeat the entire disc, press **REPEAT** a second time.
- **REPEAT DISC** appears on the display and the screen.
- To exit Repeat mode, press **REPEAT** a third time.

Repeat A-B

To repeat a specific portion of a title:

- Press **A-B** at your chosen starting point.
- **A-** appears briefly on the screen.
- Press **A-B** again at your chosen end point.
- **REPEAT A-B** appears briefly on the display, and the repeat sequence begins. (**REPEAT A-B** is displayed on the player display)
- To cancel the sequence and continue playback, press **A-B**.

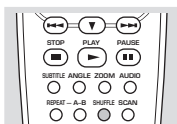


Random-sequence play

DVD Video discs

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

- Press **SHUFFLE** during playback.
- **SHUFFLE** appears on the screen for about two seconds.
- To return to normal playback, press **SHUFFLE** again.





Video CDs

- Press **SHUFFLE** during playback.
- **SHUFFLE** appears on the screen for about two seconds.
- To return to normal playback, press **SHUFFLE** again.

Time search









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

- Select  (Time Search) in the menu bar.
- Press .
 - Playback will pause.
 - A time edit box appears on the screen, showing the elapsed playing time of the current disc.
- Use the numeric buttons to enter the required start time. Enter hours, minutes and seconds from left to right in the box.
 - Each time an item has been entered, the next item will be highlighted.
- Press **ENTER/OK** to confirm the start time.
 - The time edit box will disappear and playback starts from the selected time on the disc.



Zoom

The Zoom function allows you to enlarge the video image and to pan through the enlarged image.

- Select  (Enlarge Picture).
- Press   to activate the ZOOM function and select the required zoom factor: 1.33 or 2 or 4.
 - Playback will pause.
 - The selected zoom factor appears below the Zoom icon in the menu bar and 'Press OK to pan' appears below the menu bar.
 - The picture will change accordingly.
- Press **ENTER/OK** to confirm the selection.
 - The panning icons appear on the screen.
- Use     to pan across the screen.
- When **ENTER/OK** is pressed only the zoomed picture will be shown on the screen.
- To exit ZOOM mode:
 - Press  to resume playback.



FTS-Video

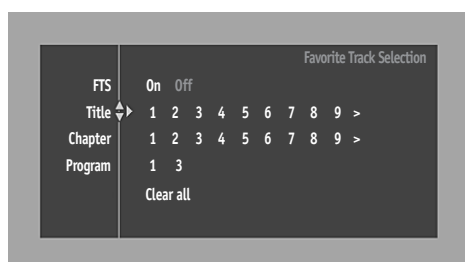
- The FTS-Video function allows you to store your favourite titles and chapters (DVD) and favourite tracks and indexes (VCD) for a particular disc in the player memory.
- FTS program can contain 20 items (titles, chapters etc.).

Storing a FTS-Video Programme

- In STOP mode, select **VIDEO FTS** in the menu bar.
- Press **▼** to open the menu.
→ The **VIDEO FTS** menu appears.

Storing titles/tracks

- Press **▼** to select **TITLES**.
- Use **▶** and **◀** to select the required title.
- Press **ENTER/OK** if you wish to store the entire title.
→ The title number will be added to the list of selections.



Storing chapters/indexes

- Press **▼** on the selected title number.
→ The title number will be marked and the highlight moves to the first available chapter number for this title.
- Use **▶** and **◀** to select the required chapter number.
- Press **ENTER/OK** to confirm the selection.
→ The title/chapter selection will be added to the list of selections.
- Press **ON SCREEN** to exit the **VIDEO FTS** menu.

Erasing a FTS-Video Programme

- In STOP mode, select **VIDEO FTS** in the menu bar.
- Use **▼** to select **PROGRAM**.
- Use **▶** and **◀** to select the required selection number.
- Press **ENTER/OK** to erase the selection.
- Press **ON SCREEN** to exit.

If you wish to erase all selections:

- In STOP mode, select **VIDEO FTS** in the menu bar.
- Use **▼** to select **CLEAR ALL**.
- Press **ENTER/OK**.
→ All selections will now be erased.
- Press **ON SCREEN** to exit.

Switching FTS ON/OFF

- 1 Use **▲** to move to FTS.
- 2 Use **▶** or **◀** to select either On or Off.

Special DVD Features

Checking the contents of DVD Video discs: Menus

DVDs may contain menus to navigate the disc and access special features. To use the menu, press the appropriate numerical key; or use the **▼**, **▲**, **▶**, **◀** to highlight your selection, then press **ENTER/OK**.

Title/Disc menu

- Press **MENU**.
→ If the current title has a menu, the menu will appear on the screen otherwise, the disc menu will be displayed.
- The menu can list camera angles, spoken language and subtitle options, and chapters for the title.

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 currently. You can then change the camera angle if you wish.
- Press **ANGLE** or use the **▲/▼** to select the required angle.
→ After a while, playback changes to the selected angle. The angle icon remains displayed until multiple angles are no longer available.



Changing the audio formats and/or language

- Select **(AUDIO)** in the menu bar.
- Press **AUDIO** or **▲/▼** repeatedly to see the different formats and/or languages.



Subtitles

- Select **(SUBTITLE)** in the menu bar.
- Press **SUBTITLE** or **▲/▼** repeatedly to see the different subtitles.



Note:

With some discs, you cannot change angles, audio formats and/or Languages, or subtitles in the way described above. In that case, go to the disc menu to change them.

Special VCD & SVCD Features

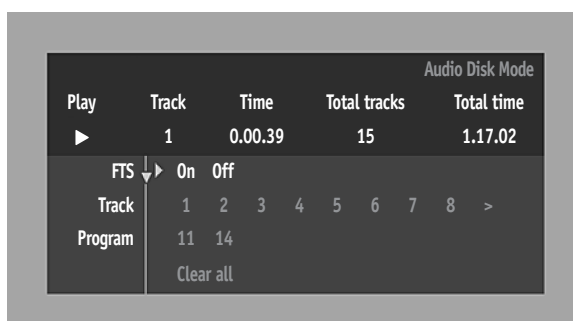
Playback Control (PBC)

- Load a Video CD with PBC and press ►.
- Go through the menu with the keys indicated on the TV screen until your chosen passage starts to playback. If a **PBC** menu consists of a list of titles, you can select a title directly.
- Enter your choice with the numerical keys (0-9).
- Press **RETURN/RESUME** to go back to the previous menu.
- You may also select **PBC OFF** under Personal Preferences.

Note: When PBC is on, you cannot operate random, repeat, A-B repeat, scan, time search and FTS video with video CD's version 2.0.

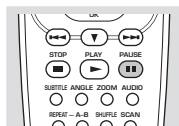
Playing an Audio CD

- After loading the disc, playback starts automatically.
- If the TV is on, the Audio CD screen appears.
- The number of tracks and the total playing time of the disc will be shown on the TV screen.
- During playback, the current track number and its elapsed playing time will be shown on the TV screen and on the player display.
- Playback will stop at the end of the disc.
- To stop playback at any other time, press ■.



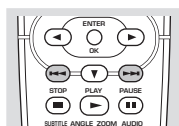
Pause

- Press **II** during playback.
- To return to playback, press ►.



Search

- To search forward or backward through the disc at four times the normal speed, hold down **◀◀◀** or **▶▶▶** for about one second during playback.
 - Search begins, and sound is partially muted.
- To step up to eight times the normal speed, press **◀◀◀** or **▶▶▶** again.
 - Search goes to eight times the speed, and the sound is muted.
- To return to four times the normal speed, press **◀◀◀** or **▶▶▶** again.
- If the TV is on, search speed and direction are indicated on the screen each time **◀◀◀** or **▶▶▶** is pressed.



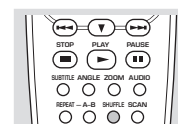
- To end the search, press ► to resume playback, press **II** to pause or press ■ to stop playback.

Moving to another track

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

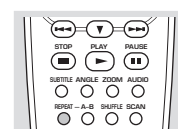
Random-sequence play

- Press **SHUFFLE** during playback.
 - The playing order of the tracks is changed.
- To return to normal playback, press **SHUFFLE** again.



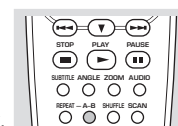
Repeat track/disc

- To repeat the current track, press **REPEAT**.
 - **REPEAT TRK** appears on the display.
- To repeat the entire disc, press **REPEAT** a second time.
 - **REPEAT DISC** appears on the display.
- To exit Repeat mode, press **REPEAT** a third time.



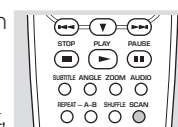
Repeat A-B

- To repeat a specific portion of a track:
- Press **A-B** at your chosen starting point.
 - **repeat A-** appears on the screen.
 - Press **A-B** again at your chosen end point.
 - **repeat A-B** appears on the screen, and the sequence begins to play repeatedly.
 - To cancel the sequence and continue playback, press **A-B**.



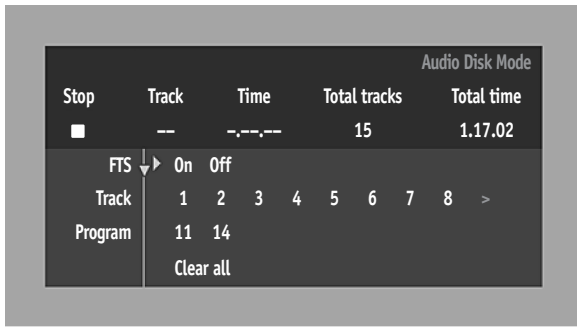
Scan

- Scanning plays the first 10 seconds of each track on the disc.
- Press **SCAN**.
 - To continue playback at your chosen track, press **SCAN** again or press ►.



FTS Programme

- FTS Programme allows you to store your favourite tracks for a particular disc in the player memory.
- Each FTS Programme can contain 20 tracks.



Storing an FTS Programme

- 1 Load a disc and stop playback.
- 2 Use ▼ to go to the list of available tracks.
- 3 Use ► or ◀ to select tracks from the list.
To go directly to any track, enter the track number using the numerical keys (0-9).
- 4 Store each track by pressing **ENTER/OK**.
→ The track numbers will be added to the list.
→ The number of tracks and the playing time of the program will be shown on the TV screen and the player display.

When your FTS Program is complete, press ► to start playback or; press ▲ to go back to Stop mode. In either case, the FTS Program will be automatically memorized.

Switching FTS ON/OFF

- 1 Use ▲ ▼ to move and select desired tracks.
- 2 Use ► or ◀ to select either On or Off.

Erasing a track from an FTS Program

- 1 Use ▼ to go to the list of selected tracks.
- 2 Use ► and ◀ to select the track number you wish to erase.
- 3 Press **ENTER/OK**.
→ The track number will be erased from the list of selected tracks.

Erasing the complete program

- 1 Use ▼ to select **CLEAR ALL**, then press **ENTER/OK**.
→ The complete FTS Program for the disc will be erased.

MP3 Disc Features

Support following MP3-CD formats (ISO9660 format):

- Max. 30 characters (filename or directory)
- Max. nested directory is 8 levels
- The max. album (directory) number is 32
- Supported variable bit-rate
- Supported sampling frequencies for MP3 disc are: 32 kHz, 44.1 kHz, 48 kHz
- Supported Bit-rates of MP3 disc are: 32, 64, 96, 128, 192, 256 (kbps)

Following formats can't be supported

- The files like *.WMA, *.AAC, *.DLF, *.M3U, *.PLS
- Chinese filename
- The non-session closed discs
- The discs recorded under UDF format

Downloading MP3 files from the Internet or copying songs from your own legal discs is a delicate process.

Sound Quality	Bit Rate	Approximate Reduction Ratio	Approximate total MP3-CD time	Comment
AM radio	32 kbps	40 : 1	40 hrs	Sound quality significantly affected – not recommended.
FM radio	64 kbps	20 : 1	20 hrs	
Near-CD	96 kbps	15 : 1	15 hrs	Balanced sound quality – compression rate
CD-like	128 kbps	10 : 1	10 hrs	
CD*	256 kbps	5 : 1	5 hrs	Compression rate low – suggest to play CDs instead
CD*	320 kbps	3 : 1	3 hrs	

You may experience an occasional “skip” while listening to your MP3 files. This is normal.

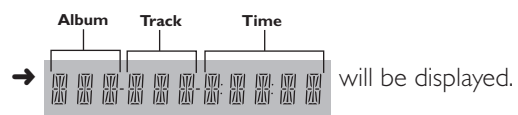
Additional note for MP3 disc Playback:

- In compliance with the SDMI, digital-out is muted while playing MP3 discs.
- Due to the recording nature of Digital Audio MP3 (DAM), only Digital Audio music will play.
- The disc reading time may exceed 10 seconds due to the large number of songs compiled into one disc.
- Only the first session of multisession discs is supported.
- Some MP3 discs cannot be played depending on the disc characteristics or recording conditions.

Album/Title

This feature allows you to view and select the next or previous MP3 disc Album/Title.

- 1 Press ▲/▼ to scroll through the previous or next Album.
- 2 Press ◀/▶ to scroll through the previous or next Track.



- 3 You can also select the desired album/track number directly using the numeric keys on the remote control.

Note:

- **In STOP mode:** numbers are used for ALBUM selection.
- **In PLAY mode:** numbers are used for TRACK selection.
- Only the following functions are possible for MP3 discs:
 - STOP / PLAY / PAUSE
 - SKIP NEXT / PREVIOUS
 - REPEAT (TRACK / ALBUM / DISC)

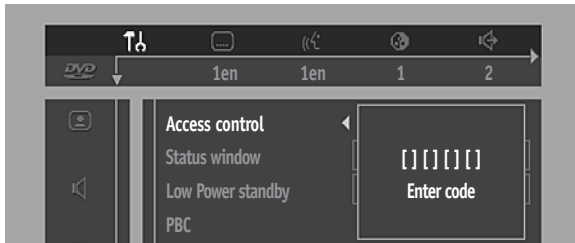
MP3 Discs - Album/Track/Disc

- To repeat a track, press **REPEAT**.
→ **REPEAT TRK** appears on the display.
- To repeat an album, press **REPEAT** a second time.
→ **REPEAT ALBM** appears on the player display.
- To repeat the entire disc, press **REPEAT** a third time.
→ **REPEAT DISC** appears on the player display.

Deciding the PIN number

When changing Access control settings, first decide your PIN number. You need to enter the number whenever you change the settings.

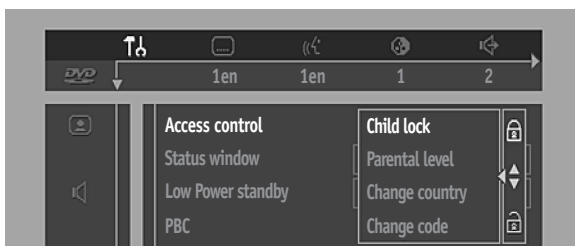
- 1 Select **ACCESS CONTROL** in the features menu using ▲/▼, and then press ►.
- 2 Enter your 4-digit code of your own choice.
- 3 Enter the code a second time.



Access Control; Child Lock (DVD Video and Video CD)

Activating/deactivating the child lock

- 1 When disc playback is stopped, select **ACCESS CONTROL** in the features menu using the ▲/▼, and then press ►.
- 2 Enter your 4-digit code.
- 3 Move to **CHILD LOCK** using the ▲/▼.
- 4 Move to **LOCK/UNLOCK** using the ►.
- 5 Select **LOCK** using the ▲/▼.
- 6 Press **ENTER/OK** or ◀ to confirm, then press ◀ again to exit the menu.
→ Now unauthorized discs will not be played unless the 4-digit code is entered.
- 7 Select **UNLOCK** to deactivate the **CHILD LOCK**.

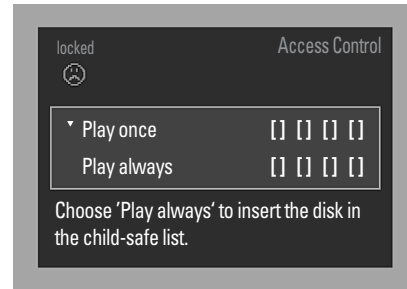


Authorizing discs

- Insert the disc. See 'Loading Discs'.
→ The 'child protect' dialog will appear. You will be asked to enter your secret code for 'Playback Once' or 'Playback Always'. If you select 'Playback Once', the disc can be played as long as it is in the player and the player is ON. If you select 'Playback Always', the disc will become child safe (authorized) and can always be played, even if the Child Lock is set to ON.

Notes:

- The player memory maintains a list of 80 authorized ('Child safe') disc titles. A disc will be placed in the list when 'Playback Always' is selected in the 'child protect' dialog.
- Each time a 'child safe' disc is played, it will be placed on top of the list. When the list is full and a new disc is added, the last disc in the list will be removed from the list.
- Double sided DVDs may have a different ID for each side. In order to make the disc 'child safe', each side has to be authorized.
- Multi-volume VCDs may have a different ID for each volume. In order to make the complete set 'child safe', each volume has to be authorized.



Deauthorizing discs

- Insert the disc. See 'Loading Discs'.
→ Playback starts automatically.
- Press ■ while 😊 is visible.
→ The 😞 will appear and the disc is now deauthorized.

Note:

Playback continues even after you have deauthorized the disc. Press ■ if you want to stop it.

Access Control; Parental Control (DVD Video only)

Movies on DVDs may contain scenes not suitable for children. Therefore, disc may contain 'Parental Control' information which applies to the complete disc or to certain scenes on the disc. These scenes are rated from 1 to 8, and alternative, more suitable scenes are available on the disc. Ratings are country dependent. The 'Parental Control' feature allows you to prevent discs from being played by your children or to have certain discs played with alternative scenes.

Activating/Deactivating Parental Control

- 1 When disc playback is stopped, select **ACCESS CONTROL** in the features menu using ▲/▼, and then press ►.
- 2 Enter your 4-digit code. If necessary, enter the code a second time.
- 3 Move to Parental Control using ▲/▼.
- 4 Move to **VALUE ADJUSTMENT** (0-8) using ►.
- 5 Then use the ▲/▼ or the numerical keys on the remote control to select a rating from 0 to 8 for the disc inserted.

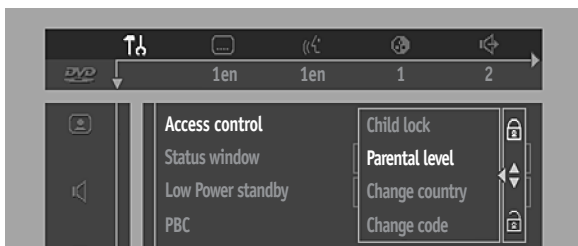
Rating 0 (displayed as '— —'):

Parental Control is not activated. The Disc will be played in full.

Ratings 1 to 8:

The disc contains scenes not suitable for children. If you set a rating for the player, all scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop and the 4-digit code has to be entered.

- 6 Press **ENTER/OK** or ◀ to confirm, then press ◀ again to exit the menu.



Country

- 1 When disc playback is stopped, select **ACCESS CONTROL** in the features menu using ▲/▼, and then press ►.
- 2 Enter the 4-digit code.
- 3 Move to **CHANGE COUNTRY** using ▼.
- 4 Press the ►.
- 5 Select a country using ▲/▼.
- 6 Press **ENTER/OK** or ◀ to confirm, then press ◀ again to exit the menu.

Changing the 4-digit code

- 1 When disc playback is stopped, select **ACCESS CONTROL** in the features menu using ▲/▼, and then press ►.
- 2 Enter the old code.
- 3 Move to **CHANGE CODE** using ▼.
- 4 Press ►.
- 5 Enter the new 4-digit code.
- 6 Enter the code a second time and reconfirm by pressing **ENTER/OK**.
- 7 Press ◀ to exit the menu.

If you forget your 4 digit code

- 1 Press ■ to exit 'Child Protect' screen.
- 2 Select **ACCESS CONTROL** in the features menu using ▲/▼, and then press ►.
- 3 The 4-digit code can be cancelled by pressing ■ four times in the 'Access Control' dialog.
- 4 You can then enter a new code (twice!) as described above (Changing the 4 digit code).

Parental Control Disclaimer

This DVD player features the **PARENTAL CONTROL** system which is intended to activate when playing DVD discs furnished with certain software coding. This is according to technical standards adopted by the set maker and disc content industries.

Please note that the **PARENTAL CONTROL** system will not operate a DVD disc which is not furnished with the appropriate software coding. Also note that at the time of release of this DVD player, certain aspects of the technical standards had not been settled between set makers and the disc industries.

On this basis Yamaha cannot guarantee the functioning of **PARENTAL CONTROL** system and denies any liability associated with unintended watching of disc content. If in doubt, please make sure the disc plays according to your **PARENTAL CONTROL** settings before you allow children access to the player.

Troubleshooting

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 attempt to repair the system yourself.

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

Symptom	Remedy
No power	<ul style="list-style-type: none">– Make sure the power cord is properly connected.– Check if there is power at the AC outlet by plugging in another appliance.
No picture	<ul style="list-style-type: none">– Check if the TV is switched on.– Check the video connection.
Distorted picture	<ul style="list-style-type: none">– Check the disc for fingerprints and clean the disc with a soft cloth, wiping from the centre to the edge in a straight line.– Sometimes a small amount of picture distortion may appear. This is not a malfunction.
Completely distorted picture or no colour with player menu.	<ul style="list-style-type: none">– 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.	<ul style="list-style-type: none">– The disc format does not match your TV's video signal (PAL/NTSC)
No sound	<ul style="list-style-type: none">– Check audio connections.– If you are using a HiFi amplifier, try another sound source.
Distorted sound from HiFi amplifier.	<ul style="list-style-type: none">– Check to make sure that no audio connections are made to the amplifier phono input.
No audio at digital output.	<ul style="list-style-type: none">– Check the digital connections.– Check the settings menu to make sure the digital output is set to ALL or PCM only.– Check if the audio format of the selected audio language matches your receiver capabilities.– Not applicable for MP3
Disc can't be played.	<ul style="list-style-type: none">– 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)
No return to start-up screen when disc is removed.	<ul style="list-style-type: none">– Reset the unit by switching the player off, then on again.– Check to see if the programme requires another disc to be loaded.
The player does not respond to the remote control.	<ul style="list-style-type: none">– Aim the remote control directly at the sensor on the front of the player.– Remove any obstacles between the player and the remote control.– Inspect or replace the batteries in the remote control.
Buttons do not work.	<ul style="list-style-type: none">– In order to completely reset the player, unplug the AC cord from the AC outlet. (Please ensure that the set is not in Initial Setup mode)
Player does not respond to some operating commands during playback.	<ul style="list-style-type: none">– Operations may not be permitted by the disc. Refer to the instructions of the disc.

Specification

PLAYBACK SYSTEM

DVD Video
Video CD & SVCD
CD (CD-R and CD-RW)
DVD+RW
MP3

OPTICAL READOUT SYSTEM

Lasertype	Semiconductor AlGaAs
Numerical Aperture	0.60 (DVD) 0.45 (VCD/CD)
Wavelength	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

VIDEO FORMAT

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

TV STANDARD

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

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	1Vpp into 75 ohm
S-Video output	Y: 1 Vpp into 75 ohm C: 0.3 Vpp into 75 ohm
RGB (SCART) output	0.7 Vpp into 75 ohm
Black Level Shift	On/Off
Video Shift	Left/Right

AUDIO FORMAT

Digital	MPEG DTS/Dolby Digital PCM	Compressed Digital 16, 20, 24 bits fs, 44.1, 48, 96 kHz
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Analog Sound Stereo
Dolby Pro Logic downmix from Dolby Digital multi-channel sound
3D Sound (TruSurround) for virtual 5.1 channel sound on 2 speakers

AUDIO PERFORMANCE

DA Converter	24 bits
DVD	fs 96 kHz 2 Hz - 44 kHz fs 48 kHz 2 Hz - 22 kHz
Video CD	fs 44.1 kHz 2 Hz - 20 kHz
CD	fs 44.1 kHz 2 Hz - 20 kHz
Signal-Noise (1kHz)	95dB
Dynamic Range (1kHz)	95dB
Distortion and Noise (1kHz)	0.0035%
MPEG MP3	MPEG Audio L3

CONNECTIONS

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

GENERAL

Dimensions (w x h x d)	435 x 91 x 314 mm
Weight	Approx. 3.3 Kg
Power Supply	230V, 50Hz
Power Consumption	20W (4.3W in standby mode)

GENERAL FUNCTIONALITY

Stop / Play / Pause
Fast Forward / Backward
Time Search
Step Forward / Backward
Slow Motion
Title / Chapter / Track Select
Skip Next / Previous
Repeat (Chapter / Title / All) or (Track / All)
A-B Repeat
Random
Scan
New enhanced user graphical interface
Zoom (x1.33, x2, x4) with picture enhancement
Smart Picture for convenient personal colour setting
NTSC/PAL Conversion
Screen Saver (Dim 75% after 15 min.)
3D Sound (TruSurround)
Audio and video bit rate indicator

DVD FUNCTIONALITY

Multi-angle Selection
Audio Selection (1 out of max. 8 languages)
Subtitles Selection (1 out of max. 32 languages)
Aspect Ratio conversion (16:9, 4:3 Letterbox, 4:3 Pan Scan)
Parental Control and Child Lock
Disc Menu support (Title Menu and Root Menu)
Resume (5 discs) after stop / standby
Programming Titles/chapters with Favourite Selection

VIDEO CD FUNCTIONALITY

Playback Control for VCD 2.0 discs
Child Lock
Resume (5 discs) after stop / standby
Programming Tracks with Favourite Selection

AUDIO CD FUNCTIONALITY

Time Display (Total / Track)
Full audio functionality with remote control
Programming with Favourite Track Selection

MP3 FUNCTIONALITY

Time Display (Track)
Album and Track Selection
Repeat (Disc / Album / Track)

* typical playing time for movie with 2 spoken languages and 3 subtitle languages.

Specifications subject to change without prior notice



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