DVD/CD PLAYER -
DIGITAL A/V SURROUND RECEIVER

DVD
SURROUND
RECEIVER

MX-**1050D**
MX-**1060D**

Let's make things better.

PHILIPS

Important Note

Important notes for users in the U.K.

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 ⏚) 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.

Italia

DICHIARAZIONE DI CONFORMITA'

Si dichiara che l'apparecchio MX-1050D, MX-1060D Philips risponde alle prescrizioni dell'art. 2 comma 1 del D.M. 28 Agosto 1995 n. 548.

Fatto a Eindhoven

Philips Consumer Electronics
Philips, Glaslaan 2
5616 JB Eindhoven, The Netherlands

Norge

Typeskilt finnes på apparatens underside.

Observer: Nettbryteren er sekundert innkoplet. Den innebygde netdelen er derfor ikke frakoplet nettet så lenge apparatet er tilsluttet nettkontakten.

For å redusere faren for brann eller elektrisk støt, skal apparatet ikke utsettes for regn eller fuktighet.

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English

Français

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Polski

General Information

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

This product complies with the radio interference requirements of the European Community.

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

NOTE:
PICTURES SHOWN MAY BE DIFFERENT BETWEEN COUNTRIES.

NEVER MAKE OR CHANGE CONNECTIONS WITH THE POWER SWITCHED ON.

Laser	
Type	Semiconductor laser GaAIAs
Wave length	650nm
Output Power	7mW
Beam divergence	60 degree

Contents

Introduction

Package contents

This DVD/CD player-AV Surround Receiver is supplied with the following items :

– a remote control with two AAA batteries
– an AM loop antenna and an FM wire antenna
– an audio and video cable for connection with your TV
– a scart cable
– five speakers and including five speaker cables
– an active subwoofer, including a connection cable and a power cable
– this instruction booklet

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

DVD discs

Your Philips DVD Receiver player will play digital video discs conforming to the universal DVD Video standard. In addition to DVD Video discs, you will be able to play audio CDs.

DVD Video discs have "Titles" and "Chapters". There can be several Titles on one disc and each Title can contain several Chapters. Titles and Chapters are numbered (e.g. Title 1, Title 2, etc., and Chapter 1, 2, 3, etc.).

Usually one Title will show the disc publisher and studio logos. Under another Title is the featue film itself. Other Titles can contain trailers for other films also available, or introduction notes from the film, or alternative endings for the film. There are many possibilities with Digital Versatile Discs.

Chapters within the main Title allow you to search quickly for a specific point on the disc. Many discs have a "Chapter Menu", sometimes called "Scene Index" or "Scene Menu", that displays the first shot from each Chapter and allows you to select a shot and play the disc from that point onwards. DVD discs can be PAL or NTSC. This player can play both types (as long as the zone is correct formatted).

DVD discs allow up to eight languages and 32 subtitles on a single disc. You can select and change the language and subtitle to suit yourself. You can play the whole disc or just part of it and view it from different angles. However, availability of these features varies among discs. Check the disc menu or outer case to see if such features (for example, subtitles, angles) are available on the disc.

Player Zones

There are six world zones for the distribution of DVD Discs. The zone your player is intended for is indicated on the "Zone Label". This should be the same as the label on discs available in your region. If you have any difficulty playing a disc, make sure the disc is the same zone as your player.

| Region 1 | Region 2 | Region 3 | Region 4 | Region 5 | Region 6 |

General Information

Anti-copy disc protection
Some DVD discs have anti-copying devices. When playing these discs through a television will give the highest quality picture. However, you will not be able to record the disc through a VCR.

Environmental Information

All unnecessary packaging has been omitted. We have tried to make the packaging easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

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

Installation

● Place the player on a flat, hard and stable surface.
● There must be sufficient room in front of the player for the drawer to open.
● In a cabinet, allow about 10cm (4 inch) of free space all around the player for adequate ventilation.
● Do not expose your player to extreme temperatures or humidity.

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 benzene, thinner, commercially available cleaners, or anti-static spray intended for analogue discs.

Front Panel
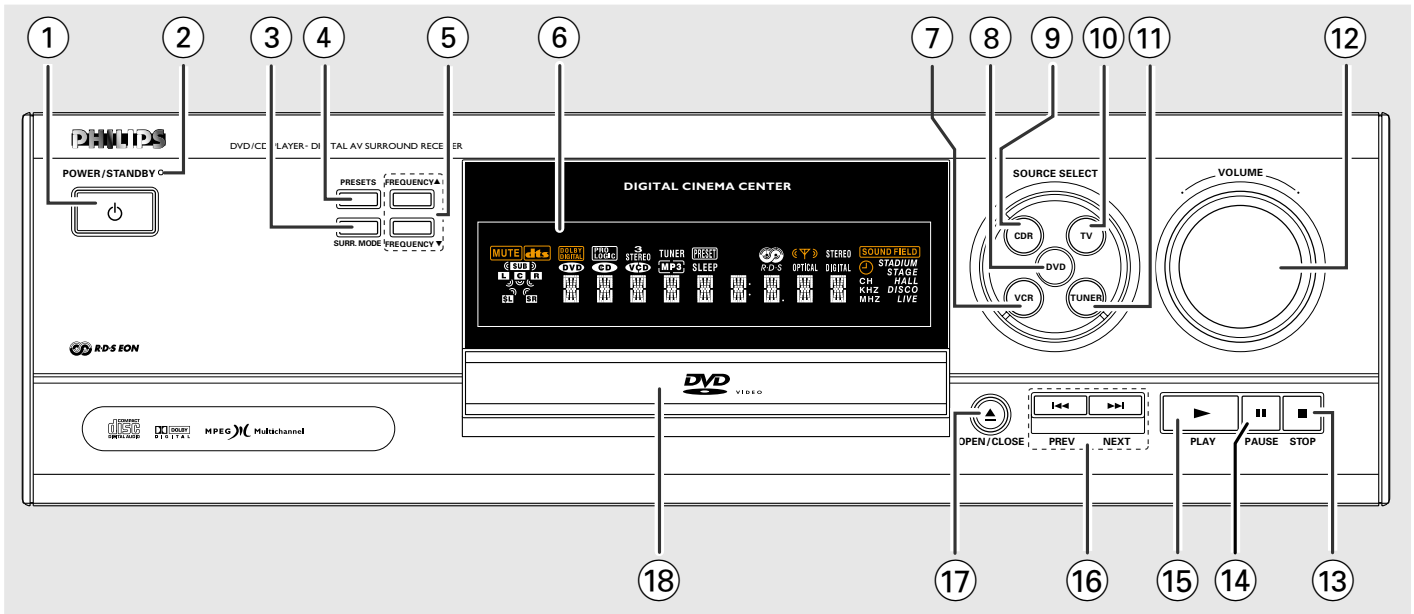
① **POWER / STANDBY** ⏻
– to switch between Power On and Standby modes.

② **Standby LED indicator**
– to indicate Standby mode.

③ **SURR. MODE**
– to select various surround modes or soundfield modes.

④ **PRESETS (Tuner mode only)**
– to select preset function.

⑤ **FREQUENCY ▼ ▲ (Tuner mode only)**
– to tune the radio frequency down or up.

⑥ **Display screen**
– to display details for user's information.

⑦ **VCR**
– to select the VCR as the input source.

⑧ **DVD**
– to select the DVD/CD mode.

⑨ **CDR**
– to select the CDR as the input source.

⑩ **TV**
– to select the TV as the input source.

⑪ **TUNER**
– to select the Tuner mode. It can also switch between MW and FM band.

⑫ **VOLUME**
– to adjust the master volume. Turn clockwise to increase and anti-clockwise to decrease.

⑬ **STOP ■ (DVD/CD mode only)**
– to stop playing the disc.

⑭ **PAUSE Ⅱ (DVD/CD mode only)**
– to freeze the picture and sound.

⑮ **PLAY ► (DVD/CD mode only)**
– to play the disc.

⑯ **PREV |◀◀ / NEXT ▶▶| (DVD/CD mode only)**
– to skip to the previous or next chapter/track.

⑰ **OPEN/CLOSE ⏏ (DVD/CD mode only)**
– to open or close the disc tray.

⑱ **Disc Tray**

Remote Control
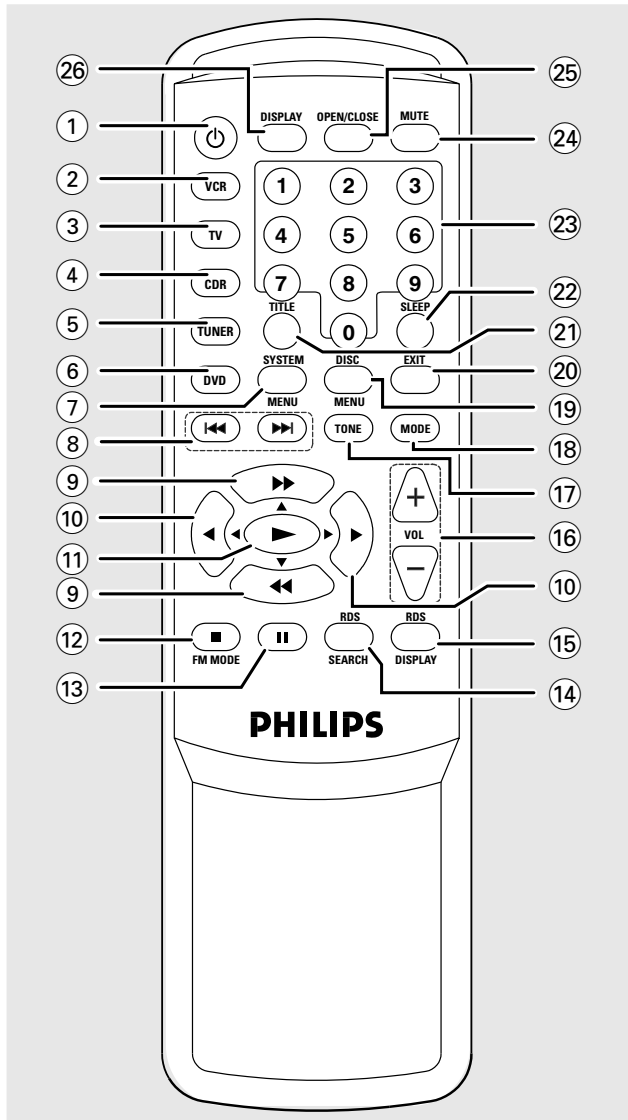
Notes for remote control:
– First, select the source you wish to control by pressing one of the source select keys on the remote control (DVD or TUNER, for example).
– Then select the desired function (▶, ◀◀, ▶▶ for example).

1 ⏻
– to switch between Power On and Standby modes.

2 **VCR**
– to select VCR as the input source.

3 **TV**
– to select TV as the input source.

4 **CDR**
– to select CDR as the input source.

5 **TUNER**
– to select Tuner mode. It can also switch between MW and FM band.

6 **DVD**
– to select the DVD/CD mode.

7 **SYSTEM MENU**
– in DVD/CD mode, to enter the Disc Setup Menu or Disc Contents Menu.
– in all other modes, to enter System Setup : SPEAKER, CLOCK or TIMER.

8 ◀◀ / ▶▶ **(DVD/CD mode only)**
– to skip to the previous or next chapter/track.

9 ◀◀ / ▶▶
– in DVD/CD mode, to fast reverse or fast forward the disc.
– in Tuner mode, to tune down or up.
– in Tone mode, to adjust the treble/bass tone level.
– use during menu and setup navigation.
– to select movement direction in Disc Setup /Disc Contents /Active Navigation menus.

10 ◀ / ▶
– in DVD/CD mode, to slow reverse or slow forward the disc.
– in Tuner mode, to select a preset channel number.
– to select movement direction in Disc Setup /Disc Contents /Active Navigation menus.

11 ▶
– in DVD/CD mode, to start disc playback.
– in Tuner mode, to enter preset programming mode or to confirm a preset.
– to enter or confirm menu and setup navigation.

12 ■ **FM Mode**
– in DVD/CD mode, to stop disc playback.
– in Tuner mode, to select Mono/Stereo.

13 ⏸
– to freeze the picture and sound.

14 **RDS SEARCH**
– in DVD mode, press to display the Index Menu.
– in Tuner mode, press to search RDS station.

15 **RDS DISPLAY**
– in DVD/CD mode, to set the limits for section repeat.
– in CD mode, press to display the CD Programme Menu.
– in Tuner mode, to display RDS information.

16 **VOL + / −**
– to increase or decrease the volume.

17 **TONE**
– to select Bass/Treble adjustment mode.

18 **MODE**
– to select various surround modes or soundfield modes.

19 **DISC MENU (DVD/CD mode only)**
– to enter or exit Active Navigation Menu.

20 **EXIT**
– to leave the Disc Setup Menu or System Setup.

21 **TITLE (DVD mode only)**
– to display the Title Menu if present on the disc.

22 **SLEEP**
– to set the sleep (auto-off) timer function.

23 **Numeric Keys (0-9)**
– for direct access of preset channels or for use in Disc Player menus.

24 **MUTE**
– to mute or unmute the sound.

25 **OPEN/CLOSE (DVD/CD mode only)**
– to open or close the disc tray.

26 **DISPLAY**
– to dim the display screen.

Rear Panel
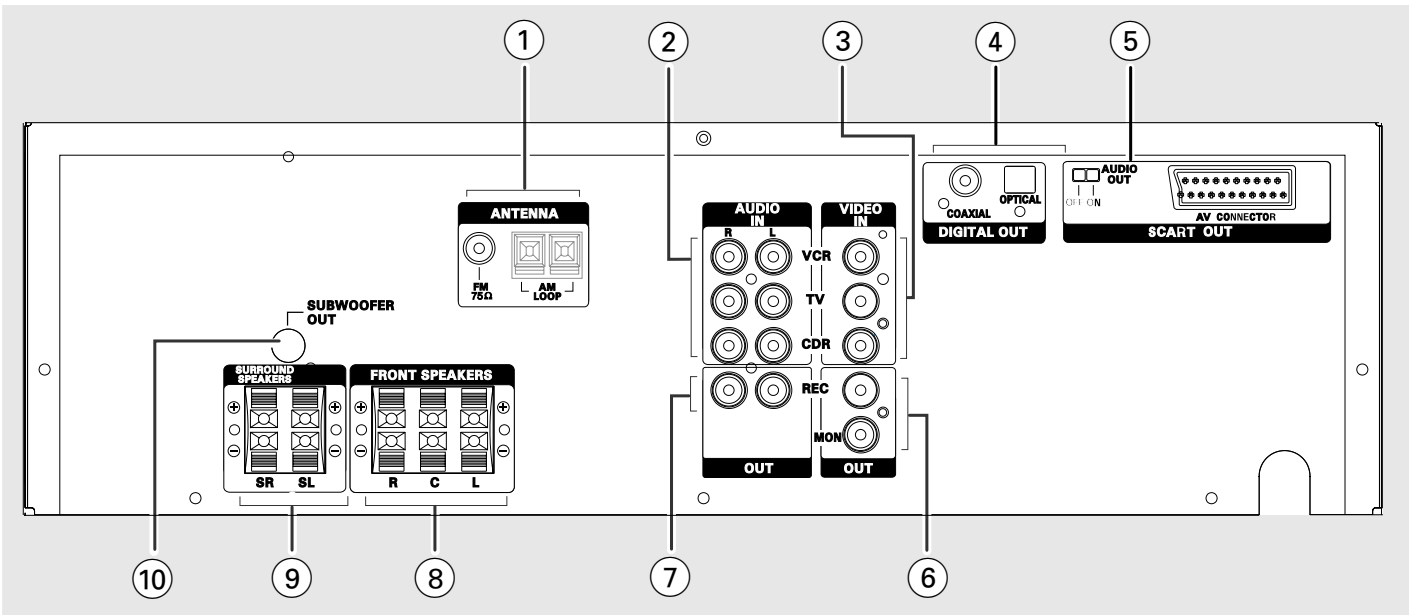
IMPORTANT!
– Before connecting the AC power cord to the wall outlet, ensure that all other connections have been made.
– Never make or change any connections with the power switched on.
– The type plate is located at the rear of the system.

① ANTENNA

FM Antenna
For FM reception, connect the FM antenna to the FM terminal. Move the antenna in various directions until the clearest signal is received.
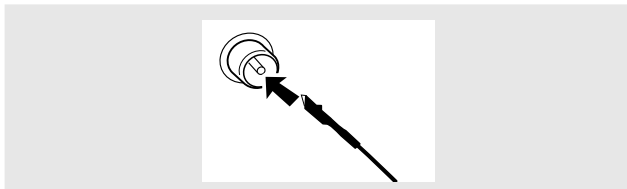
AM Loop Antenna
For AM reception, connect the AM loop antenna to the AM terminal. Position the loop antenna to receive the clearest sound.
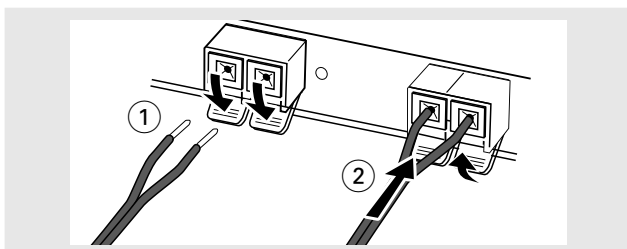
● Fully insert the stripped portion of the antenna into the terminals as shown.

Note:
– Position the antenna as far as possible from a TV, VCR or other radiation source.

② AUDIO IN

For connecting analogue (Left/Right) audio signals from external sources to the unit.

VCR – connect to Video Cassette Recorder AUDIO OUT terminal
TV – connect to Television AUDIO OUT terminal
CDR – connect to CD Recorder AUDIO OUT terminal

③ VIDEO IN

For connecting to the corresponding VIDEO OUT terminal on a VCR, TV or CDR.

④ DIGITAL OUT (in DVD/CD mode only)

Digital Coaxial Output RCA terminal
For connecting to external equipment that has a digital COAXIAL IN terminal.

Digital Optical Output terminal
For connecting to external equipment that has a digital OPTICAL IN terminal.

⑤ SCART OUT

For connecting to the SCART IN terminal on the TV using the supplied scart cable.

Audio Out on/off switch
For switching on or off the audio signal from the AV CONNECTOR to your TV.

⑥ VIDEO OUT

For connecting to external equipment with VIDEO IN terminals for viewing or recording.
REC – connect to VCR or other recording device
MON – connect to TV or Monitor

⑦ AUDIO OUT

For connecting analogue (Left/Right) audio signals to external recording devices such as VCR or Tape Recorder for recording.

⑧ FRONT SPEAKERS

Connect the left front speaker to the "L" terminals, the right front speaker to the "R" terminals and centre speaker to the "C" terminals. Connect the coloured (marked) wire to " + " and the black (unmarked) wire to " − ".
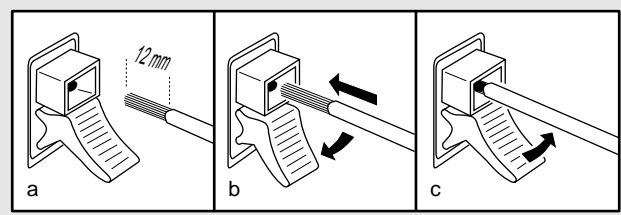
⑨ SURROUND SPEAKERS

Connect the left surround speaker to "SL" terminals and the right surround speaker to "SR" terminals. Connect the coloured (marked) wire to " + " and the black (unmarked) wire to " − ".

⑩ SUBWOOFER OUT

Connect this terminal to the AUDIO INPUT terminal of the powered subwoofer.

After completing all the connections, connect the AC power cord of the player and subwoofer to the wall outlet.

Notes:
– To prevent damage to circuits, never short-circuit the positive and negative speaker output terminals.
– Do not connect more than one speaker to any one pair of + / − speaker terminals.
– Do not connect speakers with an impedance lower than the speakers supplied. Please refer to the SPECIFICATIONS section of this manual.

Analogue Audio Connections
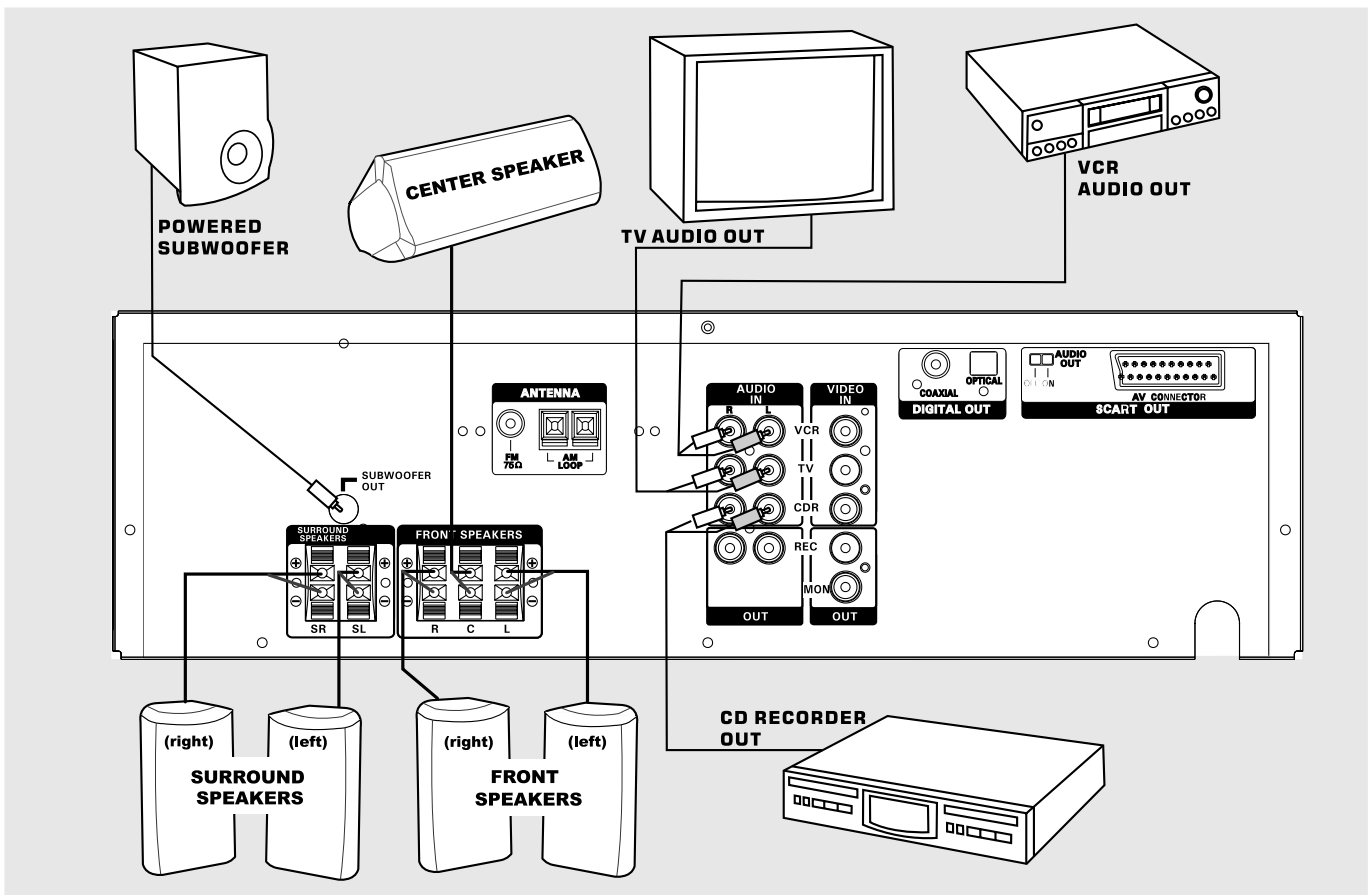
Video Connections
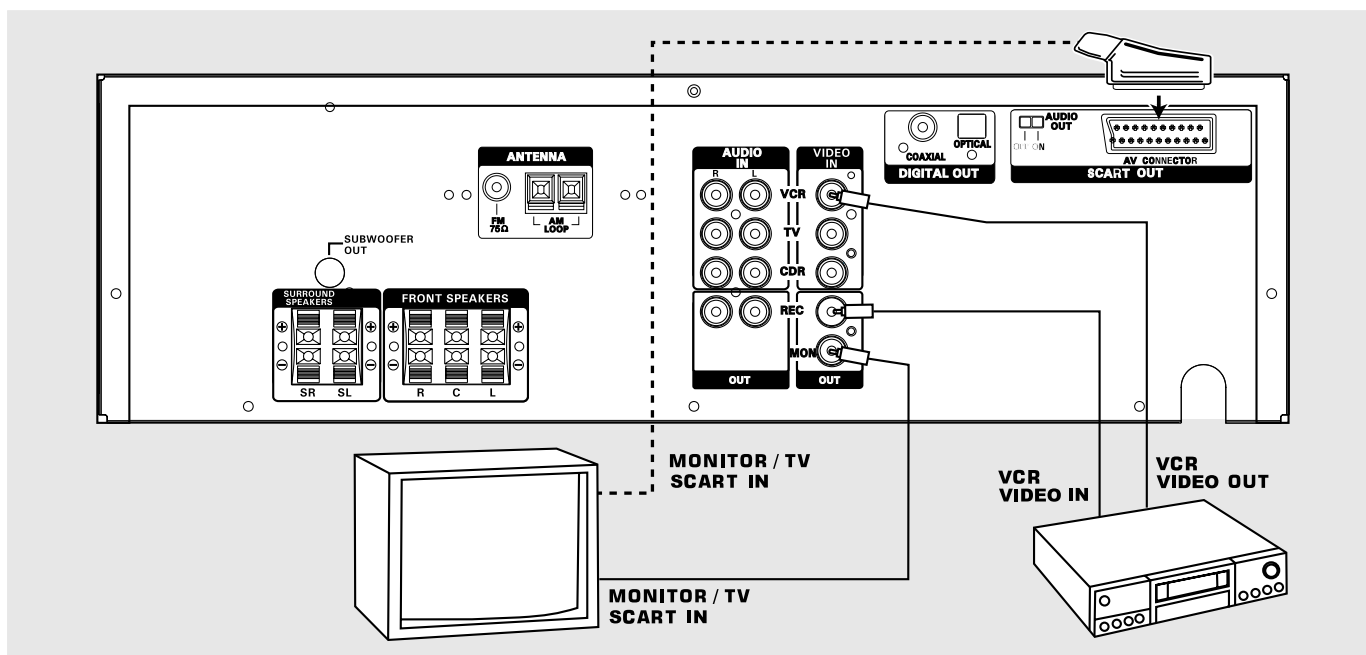
Digital/Optical Audio Connections
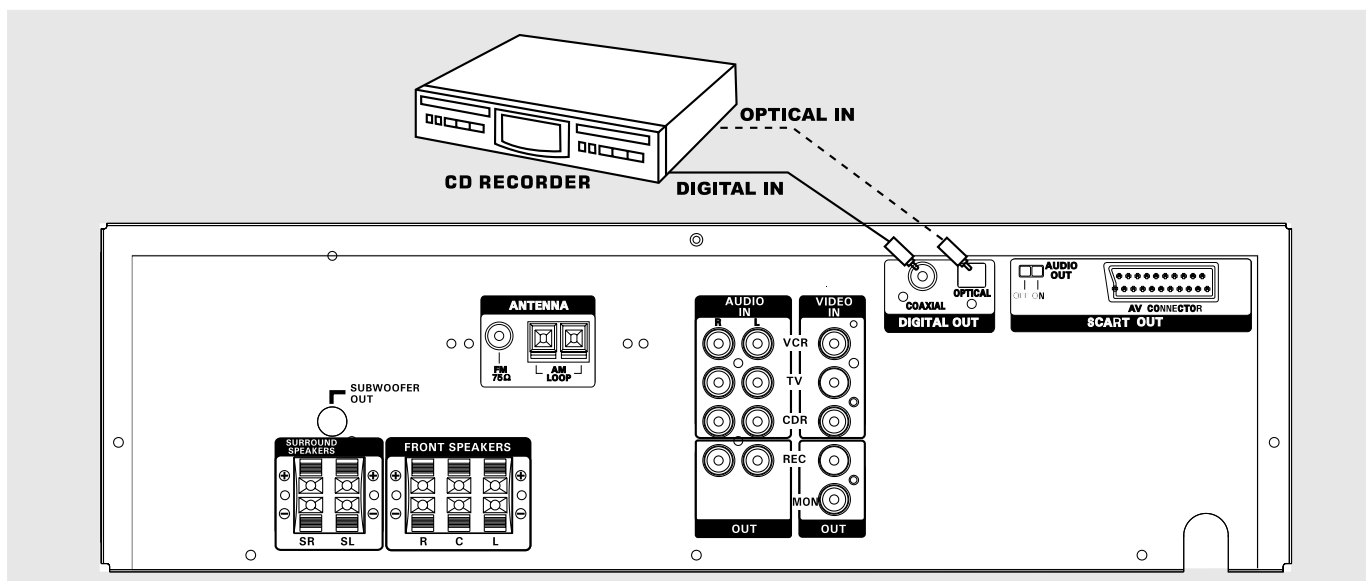
Recording from the digital output

The digital output can be used to record digitally a multichannel surround sound audio signal (Dolby Digital or DTS) to a CD-R. To convert the digital multichannel signal into a stereo signal, following settings have to be activated in the Disc Setup Menu :

– In "Audio Set", set to 2 audio channel (see page 25)
– In "Digital Out", set to PCM (see page 26)

Note:
– Digital recording is not possible when the digital source material is copy-protected.

CONNECTIONS 11

System Setup

Setting up the Digital Cinema system

You must connect all the speakers and set up the system properly in order to enjoy the Digital Cinema experience at home. You will have the feeling of being in the middle of the action, because sound is coming from everywhere around you. The subwoofer can enhance the bass performance of your system dramatically.   Look for discs with the ▯▯ DOLBY MPEG)(Multichannel marks which indicates the material is encoded for surround sound.

The availability of the various surround sound modes depends on the number of speakers used and the incoming sound information available on the disc.

Speakers Placement

General hints for positioning

● Avoid positioning the speakers in a corner or on the floor as this will boost the bass tones too much. Placing the speakers behind curtains, furniture, etc., will reduce the treble response.
● The speakers should be visible from the listening area.
● For the best surround effects, install all speakers. If a centre speaker or subwoofer is not connected, the sound from the unused channel will be distributed to the connected speakers in order to reproduce the best possible surround sound.
● Each room has different acoustic characteristics and the positioning possibilities often are limited. You can find the best position for your speakers by experimenting or referring to the picture below.
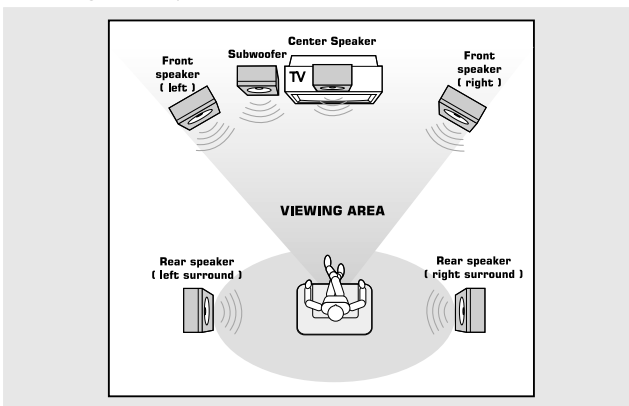
Positioning the front speakers

The front speakers should be placed to the right and left at an angle of approximately 45 degrees from the listening position.

Positioning the centre speaker

The centre speaker should be placed in the centre between both front speakers and should always be placed in line with the television (e.g. underneath or on top of the TV). The best height for the centre speaker is the height of the listener's ears (while seated).

Positioning the surround speakers

The surround speakers should face each other and be placed at normal listening ear level or mounted on the wall at the back of the room.

Positioning the Subwoofer

Place the subwoofer on a solid floor where resonance is unlikely to occur. The subwoofer can be positioned anywhere in the room because it is not possible to locate the source of deep tones. Nevertheless, you should not place it in the centre of a room, the bass could be extremely weakened. Do not place an object on the subwoofer.

Note:
– To avoid magnetic interference with the picture on your TV, do not position the front speakers too close to the TV.

Speakers Setup

Before operating your system in TV, VCR or CDR mode, you will need to set up the speaker configuration and the distance from the listening position to each speaker. For speaker setup in DVD mode, refer to "DVD/CD operation - Audio Set".

Note:
– It is only necessary to set the parameters once unless you change the speaker configuration.

Setting the speaker size

1 Press **SYSTEM MENU** to enter System Setup mode.
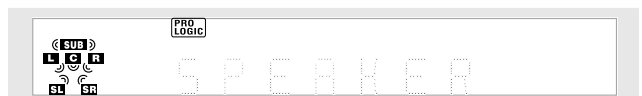
2 Press ► to select Speaker Setup.

3 Press ► to select Speaker Size Setup mode.
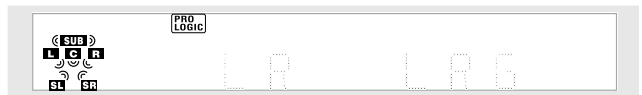
4 Use ◄ / ► to select a different speaker :
"LR" – front left/right, "LRG"– large, "SML"– small, "CEN" – centre, "SUR" – surround or "SUB" – subwoofer.
5 Use ◄◄ / ►► to adjust the setting.
6 Press ► to save these settings or press **EXIT** to leave setup mode.

Setting the speaker distance

1 Press **SYSTEM MENU** to enter System Setup mode.

2 Press ► to select Speaker Setup.

3 Press ◄ / ► until Speaker Distance Setup is selected.
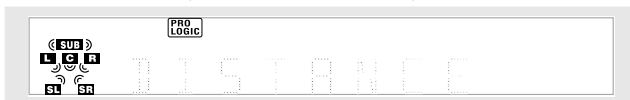
4 Press ► to enter Speaker Distance Setup mode.

5 Use ◄ / ► to select a different speaker.

6 Use ◄◄ / ►► to adjust the distance to match as close as possible to the actual distance.

7 Press ► to save these settings or press **EXIT** to leave setup mode.

Setting each speaker's relative volume balance

IMPORTANT!
Please sit at your usual listening position to correctly set up the speaker balance to match each other.

1 Press **SYSTEM MENU** to enter System Setup mode.

2 Press ► to select Speaker Setup.

3 Use ◄ / ► until Speaker Level Setup is selected.
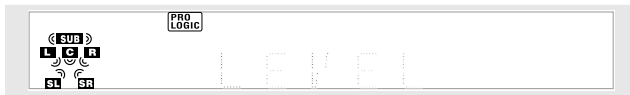
4 Press ► to enter Speaker Level Setup mode.

5 Use ◄ / ► to select a different speaker channel : *"Lch, Cch, Rch, LSUR, RSUR, SUB"*.

6 Use ◄◄ / ►► to adjust the level of a particular speaker until it matches the other speakers.

7 Press ► to save these settings or press **EXIT** to leave setup mode.

Subwoofer Setup

Before you operate the subwoofer, complete the subwoofer connections. Switch on your player and select the sound source.

Switch on/off the subwoofer

1 To activate the subwoofer, set the on/off switch at the rear of the subwoofer to 'ON' position.

● If the subwoofer is not to be used for a longer period of time, it is advisable to set the on/off switch to 'OFF' position.

2 Rotate the **VOLUME** knob at the front panel of subwoofer until you hear a click, clockwise to switch on and anti-clockwise to switch off.
➜ The LED indicator will light up in green when the subwoofer is switched on.

Volume Adjustment

You can adjust the subwoofer to suit the sound level of your front speakers. Reinforcing the bass sound gives you a greater sense of atmosphere.

1 Adjust the **VOLUME** on the player until the sound from the front speakers is not distorted. If it is distorted, the sound from the subwoofer also will be distorted.

2 Play your favourite songs.

● Male vocal tunes containing bass sounds are the most suitable samples for adjusting the subwoofer volume.

3 Adjust the **VOLUME** on the subwoofer to determine the loudness of the bass sound from the subwoofer.

Phase Selector

Use **PHASE SELECTOR** located at the rear of the subwoofer to select the phase polarity. Selecting the polarity at either 0° or 180° may determine better bass reproduction effect in certain listening environments (depending on the type of front speakers and the position of the subwoofer). It also may change the expanse and tightness of the sound, and affect the feeling of the sound field. Select the setting that provides the sound you prefer when you are in your normal listening position.

Repeat the adjustment for Volume and Phase Polarity to suit your preference. After you have adjusted the subwoofer to the settings you desire, use the **VOLUME** control on the player to adjust the volume of the subwoofer and the other speakers. You will not need to adjust the subwoofer settings again, even when you change the volume level of the player.

Basic Functions

Selecting the source

● Press one of the **SOURCE SELECT** buttons (**VCR**, **TV**, **CDR**, **TUNER** or **DVD**) to select the input source.
→ The selected source will be displayed.

Adjusting the master volume

The master volume adjusts all speaker channels at the same time.

● Rotate the **VOLUME** knob on the front panel (or press **VOL ＋/－** on the remote control).
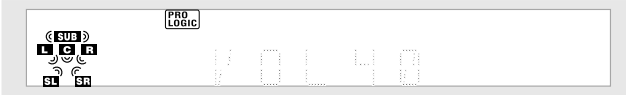
Adjusting the tone

The tone controls only affect the front left and right speakers.

1 Press **TONE once** to select Bass adjustment.

2 Press **TONE** again to select Treble adjustment.

● While in Bass or Treble adjustment mode, press ◀◀ / ▶▶ to adjust the selected Bass or Treble level.

3 Press **TONE** for the third time to exit.

Note:
– If no button is pressed within a few seconds, the player will exit the tone mode automatically.

Muting the sound

1 Press **MUTE** to mute the speaker output, the "MUTE" icon will appear on the display.
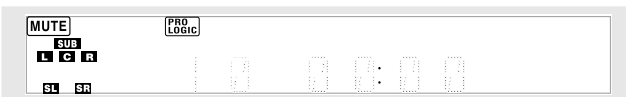
2 To restore the volume, press **MUTE** again.

Dimming the display screen

1 Press **DISPLAY** will dim the display by a third.
2 Press **DISPLAY** again will dim the display by another third.
3 Press **DISPLAY** the third time will return the display to the original brightness.

Selecting output modes - surround sound & sound effects

The number of output modes varies according to the system setup and the input source. A list of all output modes is shown below.

IMPORTANT!
For proper surround sound, make sure you have followed the Connections and System Setup procedure fully.

● Press **SURR. MODE** (or **MODE** on the remote control) to select the available output modes.

Dolby Digital Surround

The Dolby Digital Surround system requires connection of all five speakers (front left, centre, front right, surround right, surround left) for correct surround sound reproduction. This 5.1 channel digital surround format allows for five individual full-range (20Hz - 20kHz) channels plus an LFE (Low Frequency Effects) channel for the low-range (20Hz - 120kHz) effects. It creates a realistic sound similar to theatre and cinema. A large number of DVD discs have recorded in Dolby Digital Surround.

Dolby Pro Logic Surround

The Dolby Pro Logic Surround system is a specially encoded two channel analogue format that will produce sound through four speaker channels (front left, centre, front right, mono surround) when a Dolby Pro Logic Decoder is used. It is also compatible with stereo systems but the user will only have two channels (Front Left & Right) of sound.

Dolby 3 Stereo

Dolby 3 Stereo produces sound through three speaker channels (front left, centre, front right) from a two channel analogue signal. It is not a surround format, so it does not require surround speakers.
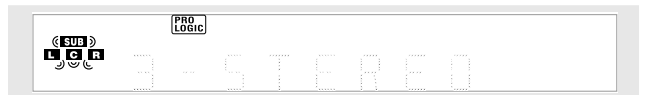
Stereo

All sound is reproduced and played through the front left and right speakers. This enables standard stereo reproduction.
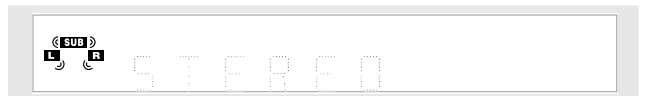
Soundfield Effects

The digital Soundfield Effects can recreate the effects of sounds reflected from walls or ceilings to obtain the sound presence of real environments.

STADIUM

This mode recreates a large stadium effect using very long reverberation times.
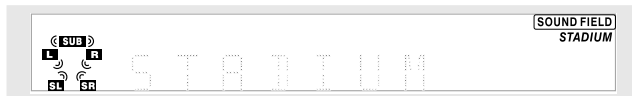
STAGE

This effect recreates a stage environment, emphasizing sound from the front speakers.

HALL

The surround effect recreates a hall using lots of reflections. Suitable for orchestral music such as classical and opera.
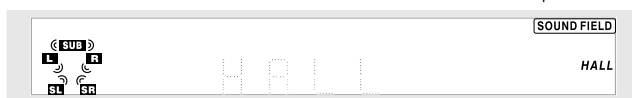
DISCO

This surround effect generates a feeling of being in a disco or club. It is suitable for all types of music that are played in discos.

LIVE

This soundfield effect is suitable for all types of music.
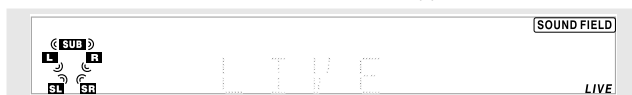
Tuner

Manual tuning

1 Press **TUNER** to select tuner mode.
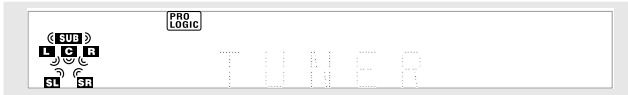
➜ After 2 seconds, the display will show the current waveband and frequency.
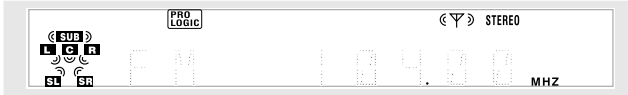
2 To switch between FM and MW waveband, press **TUNER** again.

3 Press **FREQUENCY** ▼ or ▲ (or ◀◀ / ▶▶ on the remote control) repeatedly to change the frequency. The frequency changes in 50kHz steps in FM and 9kHz steps in MW waveband.

Automatic tuning

1 Press **TUNER** to select tuner mode.

2 To switch between FM and MW waveband, press **TUNER** again.

3 Press and hold **FREQUENCY** ▼ or ▲ for more than one second to activate auto tuning mode.
➜ When a station is reached, auto tuning stops.

● Repeat *steps 2–3* to search for other radio stations.

Tuning to a weak FM station

1 Press **FREQUENCY** ▼ or ▲ repeatedly to tune in the weak FM station manually.
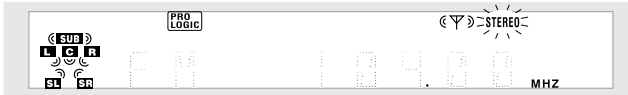
2 Press **FM MODE (■)** to switch to mono mode. This should reduce the noise and make the station easier to hear.

Preset Radio Stations

When a preset station is selected, the preset number will appear shortly and the display will show the waveband and frequency.

Storing Preset Radio Stations

You can store up to 20 stations in the FM waveband and 20 stations in the MW waveband in the memory.

1 In tuner mode, press **TUNER** to switch between FM and MW waveband.

2 Press **FREQUENCY** ▼ or ▲ to tune in the desired station.

3 Press and hold **PRESETS** until "PRESET" icon flashes.

4 Press ◀ / ▶ (or **numeric keys 0-9** on the remote control) to select the desired preset channel number to store.

5 Press **PRESETS** again to store the radio station.

● Repeat *steps 2–5* to store other preset radio stations.

Selecting Preset Radio Stations

1 In tuner mode, press **TUNER** to switch between FM and MW waveband.

2 Press **PRESETS** and followed by **FREQUENCY** ▼ or ▲ (or ◀ / ▶ on the remote control) to select the desired preset station.

● You can also use the remote control's direct access numeric keys.

RDS

IMPORTANT!
RDS functions are only available in areas that use the RDS system.

RDS (Radio Data System) is a broadcasting service that allows FM stations to send additional information along with the regular FM radio signal. This additional information can contain the following :
– Station Name
– Radio Text
– Programme Type
– Frequency

Displaying RDS data

When an RDS radio station is received, the RDS icon (⊚) and station name (if available) will appear on the display. While receiving an RDS radio station, you can change the display information by pressing **RDS DISPLAY** on the remote control repeatedly.
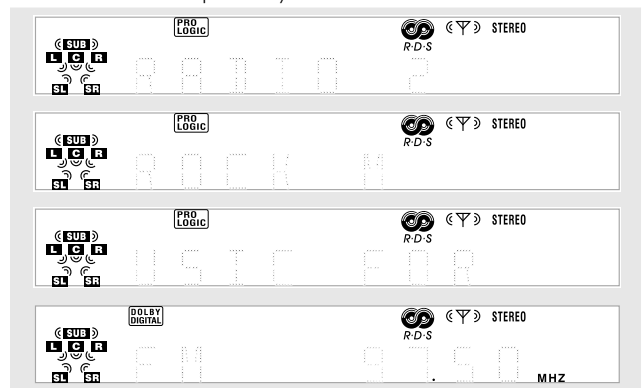
Note:
– If the tuned station is not transmitting an RDS signal or not an RDS station, "NO PS" will be displayed.

Searching for RDS radio stations using Programme Type

The following programme types exist and can be received by your Radio Tuner :

> NEWS, AFFAIRS, INFO, SPORTS, EDUCATE, DRAMA, CULTURE, SCIENCE, VARIED, POP M, ROCK M, MOR M, LIGHT M, CLASSICS, OTHERS M, etc..

1 To automatically search for an RDS programme type, first select FM radio mode.

2 Press the **RDS SEARCH** repeatedly until the required programme type appears on the display.
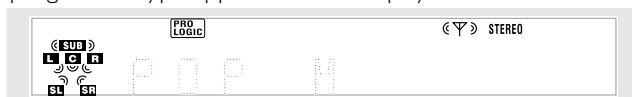
3 Press and hold **FREQUENCY** ▼ or ▲ until auto-search is activated.

➔ The search will stop when a radio station with the same programme type is detected.

➔ After a few seconds, the station name will appear on the display.
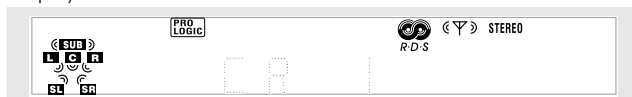
● To continue searching for another RDS station within the same programme type, repeat *step 3*.

RDS Clock

Some RDS stations may transmit the time. If the clock has not been set manually ("*AM 12:00*" will flash); the current RDS clock time will be stored automatically when the RDS station transmits the time.

Note:
– If you have set the clock, the set time will not be replaced when the RDS clock time is received.

Clock/Timer

IMPORTANT!
When in DVD/CD mode, it is not possible to operate clock or timer function.

Setting the Clock

1 Press **SYSTEM MENU** to enter System Setup mode.

2 Press ◀ / ▶ to select the Clock Setup mode and press ▶ to confirm.
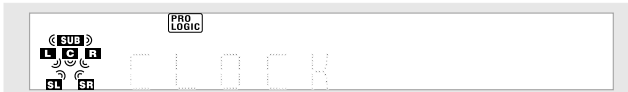
3 Press ◀◀ / ▶▶ to change between 12 and 24 hour mode.

4 Press ▶ to enter clock adjustment mode.
➔ The clock digits for the hours flash.
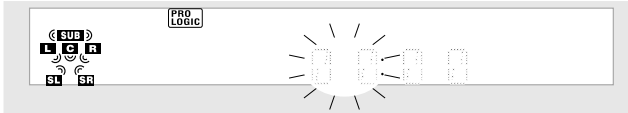
5 Press ◀◀ / ▶▶ to set the hour.

6 Press ◀ / ▶ to change the minute field.
➔ The clock digits for the minutes flash.

7 Press ◀◀ / ▶▶ to set the minute.

8 Press ▶ to confirm the setting and return to normal mode.

Setting the On/Off Timer

1 Press **SYSTEM MENU** to enter System Setup mode.

2 Press ◀ / ▶ to select the Timer Setup mode and press ▶ to confirm.
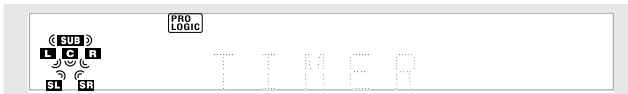
3 Press ◀ / ▶ to select set on timer or set off timer : *"ON TIME"* or *"OFF TIME"*.
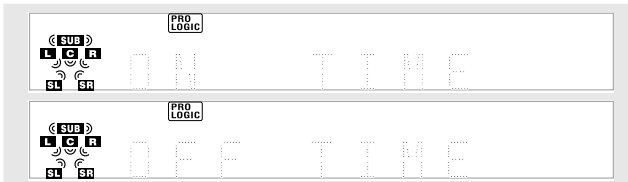
4 Press ▶ to enter set time mode.

5 Set time (refer to **point 5-7** of "Setting the Clock") and press ▶ to confirm the setting.

6 Press ◀◀ / ▶▶ to select activating or deactivating the timer : *"SET ON"* or *"SET OFF"*.
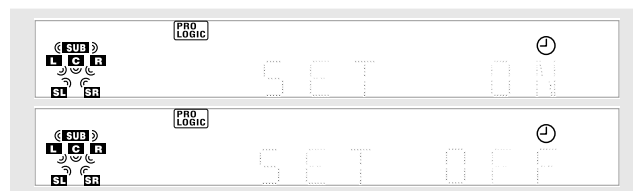
7 Press ▶ to confirm and return to the last selected source.

● Repeat *steps 1-5* again to set the Off Time.

Note:
– When the "on time" is reached, the player will switch on to the last selected source.

Activating/Deactivating On/Off Timer

1 Press **SYSTEM MENU** to enter System Setup mode.

2 Press ◀ / ▶ to select the Timer Setup mode and press ▶ to confirm.

3 Press ▶ **twice** and press ◀◀ / ▶▶ to select *"SET ON"* or *"SET OFF"* mode.

4 Press ▶ to confirm the setting and return to the last selected source.

Setting the Sleep Timer

This feature allows you to select a preset amount of time after which the player will switch to standby mode automatically.

● Press **SLEEP** repeatedly to select a preset amount of time.
➔ The selections are as follows (time in minutes):

90 → 60 → 30 → 15 → OFF → 90 …
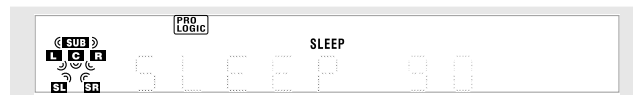
➔ When the Sleep Timer is activated, the "**SLEEP**" icon will appear on the display.

Checking the remaining Sleep Time

When the Sleep Timer is switched on, you can check the remaining time before the player switches to standby mode.

● Press **SLEEP once**.
➔ The remaining time will be displayed.

Cancelling the Sleep Timer

To switch off the Sleep Timer after it has been activated.

● Press **SLEEP** repeatedly until *"OFF"* is displayed.

Loading Discs

1 Press **OPEN/CLOSE** ⏏ to open the disc tray.

2 Load your chosen disc in the tray, label side up.

3 Press **OPEN/CLOSE** ⏏ again to close the tray.
→ There will be a short delay while the player identifies the disc and reads the menu from the disc.

● Some discs will start playing automatically, others will display the Disc Contents Menu. If the menu is presented, use ◀◀ / ▶▶ or ◀ / ▶ to select a play option, then press ▶ to confirm the selection.

When the DVD is playing

Skip

● Press I◀◀ or ▶▶I to skip backward or forward by a Chapter. Each press will take the disc to the beginning of the previous or next chapter.

Fast Search

1 Press ◀◀ or ▶▶ to reverse or fast forward. There are four speeds; each press will increase the speed.
→ The sound will be muted.

   ▶▶1 → ▶▶2 → ▶▶3 → ▶▶4 → ▶▶1 ...

OR   ◀◀1 → ◀◀2 → ◀◀3 → ◀◀4 → ◀◀1 ...

2 To resume normal play, press ▶.

Slow Motion

1 Press◀ or ▶ to play slow motion picture backward or forward. There are four speeds; each press will reduce the speed.
→ The sound will be muted.

   ▷▷1 → ▷▷2 → ▷▷3 → ▷▷4 → ▷▷1 ...

OR   ◁◁1 → ◁◁2 → ◁◁3 → ◁◁4 → ◁◁1 ...

2 To resume normal play, press ▶.

Disc Contents Menu

1 While playing a disc, press **SYSTEM MENU**.
→ The "Disc Contents Menu" will be displayed.

2 Press ◀◀ / ▶▶ or ◀ / ▶ to select a desired feature and press ▶ to confirm the selection.

Pause

1 Press ❙❙ to temporarily stop playing the disc.
→ The picture freezes and the sound will be muted.

● Press ❙❙ again will show the next frame of picture.

2 To resume normal play, press ▶.

Stop/Resume Stop

1 While playing a disc, press ■ **once** will select "Resume Stop" mode. The disc can resume playback from the point at which it stopped when you press ▶.
→ In resume stop mode, you can display the Setup Menu.

2 While resume stop mode, press ■ again to enter stop mode. The disc will start playback from the beginning when you press ▶.

Active Navigation Menu (DVD)

A number of operations can be done with the Active Navigation Menu without interrupting disc playback.

1 Press **DISC MENU**.
→ The Active Navigation Menu will be displayed across the top of the TV screen.

2 Press ◀ or ▶ to move through the Active Navigation Menu.

● Press ▶▶I to go directly to the second part of the Active Navigation Menu.

3 Press **DISC MENU** or **EXIT** to exit.

Title

● Press ◀◀ or ▶▶ to select a title from a multi-title DVD disc and press ▶ to confirm the selection.
→ The selected title will be displayed.

Chapter

● Press ◀◀ or ▶▶ to select a chapter from a multi-chapter DVD disc and press ▶ to confirm the selection.
→ The selected chapter will be displayed.

Time Search

This function enables you to select and play the disc from any point.

1 Select **TIME SEARCH** in the Active Navigation Menu.
→ The figure appears on the screen is the elapsed time for the current playing title.

2 Use the **numeric keys** to enter the time, then press ▶ to confirm.
→ The disc will play from the time you selected.
→ The associated chapter and elapsed playing time will be displayed.

Language/Sound

There could be alternative language tracks or 2 channel and 5.1 channel audio available on a disc. All discs are different in this respect.

● Press ◀◀ or ▶▶ to cycle through the sound tracks available on the disc, then press ▶ to confirm.

Subtitle

● Press ◀◀ or ▶▶ to select the available subtitle languages or to turn off the subtitle, then press ▶ to confirm.
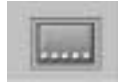
Angle

If the disc contains sequences recorded from different camera angles, this allows you to view the picture from different angles.

● Press ◀◀ or ▶▶ to select an angle.
➔ After a while, playback changes to the selected angle.

OSD (on screen display)

If the OSD is switched on, it will serve as an additional display for messages on the top corner of the screen, e.g. STOP, PLAY, which will appear momentarily when you press a remote control button.

● Press ▶ repeatedly to set On Screen Display to "ON" or "OFF".

Repeat A-B

Repeat A-B allows a passage to play repeatedly.

1 Press ▶ at the start of the desired passage.
2 Press ▶ again at the end of the passage.
➔ The passage will now repeat continuously.
3 To resume normal play, press ▶ again.

● You can also press **RDS DISPLAY** on the remote control to direct access to Repeat A-B mode.

Zoom

The zoom function allows you to enlarge or reduce the video image.

● Press ▶ repeatedly to select the zoom factor : 1.0x, 2.0x and 0.5x.
➔ The picture will change accordingly.

Playing a music CD

1 Load a music CD in the disc tray.
2 Press ▶ to start playback.
● You can use the **numeric keys** on the remote control to directly select a desired track, then press ▶ to confirm.

When the music CD is playing

Skip

● Press I◀◀ or ▶▶I to skip backward or forward. Each press will take the disc to the beginning of the previous or next track.
● If the RANDOM mode is switched on, skip will jump a RANDOM number of tracks.

Fast Search

1 Press ◀◀ or ▶▶ to reverse or fast forward the disc. There are three speeds; each press will increase the speed until the maximum speed is reached.
2 Press ▶ to revert to normal speed playback.

Pause

1 Press ❚❚ to temporarily stop playing the disc.
➔ The sound will be muted.
2 To resume normal play, press ❚❚ again or ▶.

Active Navigation Menu (music CD)

A number of operations can be done with the Active Navigation Menu without interrupting disc playback.

1 Press **DISC MENU**.
➔ The Active Navigation Menu will be displayed across the top of the TV screen.

2 Press ◀ or ▶ to move through the Active Navigation Menu.

3 Press **DISC MENU** or **EXIT** to exit.

Track

● Press ◀◀ or ▶▶ to select a track and press ▶ to confirm the selection.
➔ The track number and elapsed playing time of the current track will appear on the display.

Time Search

This function enables you to select and play the disc from any point.

● Use the **numeric keys** on the remote control to enter the time, then press ▶ to confirm.
➔ The disc will play from the time you entered.

Repeat A-B

Repeat A-B allows a passage to play repeatedly.

1 Press ▶ at the start of the required passage.

2 Press ▶ again at the end of the passage.
➔ The passage will now repeat continuously.

3 To resume normal play, press ▶ again.

Repeat

This function is to repeat playback a track or the whole disc.

● Press ▶ repeatedly to select "1" or "ALL".
➔ If "1" is selected, the current track will play repeatedly.
➔ If "ALL" is selected, the whole disc will play repeatedly.

Random

All the tracks will play in random order.

● Press ▶ repeatedly to select random "ON" or "OFF".

OSD (on screen display)

If the OSD is switched on, it will serve as an additional display for messages on the top corner of the screen, e.g. STOP, PLAY, which will appear momentarily when you press a remote control button.

● Press ▶ repeatedly to select On Screen Display "ON" or "OFF".

On-screen messages

During play, various messages will be shown on the screen for a few seconds to confirm that a function has been selected. You can switch on or off these messages in the "On Screen" setup mode of the System Setup menu.

The possible messages may appear are listed below :

PLEASE WAIT .... The system is initialising.

READING .... Reading the disc.

OPEN (⏏) .... The tray is about to open.

CLOSE (⏏) .... The tray is about to close.

DVD .... DVD disc is loaded.

MUSIC CD .... Music CD is loaded.

NO VALID DISC .... Wrong disc format or damaged disc cannot play; disc is loaded upside down or no disc is in the disc tray.

INVALID REGION DISC…The disc cannot play because the regional code is different than the player.

PARENTAL LEVEL TOO LOW TO PLAY

.... The parental control has been set and the disc cannot play.

PLAY (▶) .... Start playback.

PAUSE (⏸) .... Pause the disc.

STEP FWD (⏸▷) .... One frame forward in pause mode.

STEP BWD (◁⏸) .... One frame backward in pause mode.

CONTINUE (▶) .... Continue playing after pause.

RESUME STOP (↻□)…Stop the disc but allow the disc to be resumed from the same place later.

RESUME (↻▷) .... Playback is resumed.

STOP (■) .... The disc is completely stopped.

(⊘) .... This function is not available.

NEXT CHAPTER (▶▶)…Playback from beginning of next chapter.

PREV CHAPTER (◀◀) …Playback from beginning of previous chapter.

FAST FWD (▶▶1) .... Fast forward speed 1 (for DVD up to speed 4, for CD up to speed 3).

FAST BWD (◀◀1) .... Fast backward speed 1 (for DVD up to speed 4, for CD up to speed 3).

SLOW FWD (▷▷·) .... Slow forward speed 1 (for DVD up to speed 4).

SLOW BWD (◁◁1) .... Slow backward speed 1 (for DVD up to speed 4).

MUTE (⊠) .... The sound is muted.

UNMUTE (◁) .... Sound mute is cancelled.

SKIPPING BAD DISC AREA …There is a damaged section of the disc that the player can skip over.

TRACK: 1 .... Track selection with a number key (Music CD).

SKIP NEXT (▶▶) .... Skip to the start of the next track (Music CD).

SKIP PREV (◀◀) .... Skip to the start of the previous track (Music CD).

STAND BY .... Entering standby mode.

POWER ON .... Switched on from stand by.

BUTTON: 2 .... Indicates a menu selection using the number keys.

Disc Setup Menu

The selections from the Disc Setup Menu are the preferred options that will be chosen if they are available on a disc. If the disc inserted does not have the preferred option, then the disc's own preference will be used.

IMPORTANT!
To access the Disc Setup Menu, playback must be stopped.

1 Press **SYSTEM MENU**.
   → The Disc Setup Menu will be displayed across the top of the TV screen.
2 Press ◄◄ / ►► or ◄ / ► to move through the Disc Setup Menu.
3 Press ► to confirm the selection.

Language Example showing how to change the audio language from ENGLISH to FRENCH

Subtitle Example showing how to turn off the subtitle

TV Aspect [L-Box] means "Letter Box". The picture will be displayed as [image] with black bars at the top and bottom of the screen. (For disc which support letter box feature)

[P-Scan] means "Pan and Scan". The picture fills the whole screen however some parts to left and right may not be visible. The picture will automatically Pan and Scan to left and right to centre the most important part of the picture. Not all discs support Pan and Scan, so the Letter Box display may remain even though [P-Scan] is selected.

Example shows setting of Letter Box display on a normal TV.

[TV Aspect] ▶

TV Aspect

Select TV aspect option
◁ ▷ - Choose   ▷ - Enter   EXIT - Exit

◀◀ X 1

TV Aspect
TV Format	Auto
TV Aspect	[ ]
Return	

Select TV Format
◁◁▷▷ - Choose   ▷ - Enter   EXIT - Exit

[TV Aspect] ▶

TV Aspect
TV Format	Auto
TV Aspect	[ ]
Return	

Select TV Aspect
◁◁▷▷ - Choose   ▷ - Enter   EXIT - Exit

[Return] ▶

TV Aspect
TV Format	Auto
TV Aspect	
Return	[ ]

Return
◁◁▷▷ - Choose   ▷ - Enter   EXIT - Exit

◀◀ X 1

TV Aspect
TV Format	Auto
TV Aspect	[ ]
Return	

Select TV Aspect
◁◁▷▷ - Choose   ▷ - Enter   EXIT - Exit

[L-Box] ▶

TV Aspect
TV Format	Auto		L-Box
TV Aspect	[ ]		P-Scan
Return			16 : 9
			Return

◁◁▷▷ - Choose   ▷ - Yes   EXIT - Exit

Audio Set Example shows setting of Dynamic Range Compression (DRC) to night time listening.

[Audio Set] ▶

Audio set

Select audio set option
◁ ▷ - Choose   ▷ - Enter   EXIT - Exit

◀◀ X 3

Speaker Configuration
Test Tone	
DRC	
Exit	
DRC	Exit

[DRC] ▶

Speaker Configuration
Test Tone	
DRC	
Exit	
DRC	Exit

[Exit] ▶

Speaker Configuration
Test Tone	
DRC	
Exit	
DRC	Exit

◀◀ X 1

Speaker Configuration
Test Tone	
DRC	
Exit	
DRC	Exit

◁ X 4 ▶

Speaker Configuration
Test Tone	
DRC	
Exit	
DRC	Exit

Audio Set Example shows setting of 2 audio channel to 5.1 audio channel (only available on 5.1 Channel models).

[Audio Set]

Audio set

Select audio set option
- Choose   - Enter   EXIT - Exit

Speaker Configuration
Size
Distance
Level
DRC
Exit
DRC
Exit

Center Speaker

Speaker Configuration
Size
Distance
Level
DRC
Exit
DRC
Exit

or

Speaker Configuration
Size
Distance
Level
DRC
Exit
DRC
Exit

Subwoofer

Speaker Configuration
Size
Distance
Level
DRC
Exit
DRC
Exit

[Exit]

Speaker Configuration
Size
Distance
Level
DRC
Exit
DRC
Exit

or   Exit

Speaker Configuration
Size
Distance
Level
DRC
Exit
DRC
Exit

or

Speaker Configuration
Size
Distance
Level
DRC
Exit
DRC
Exit

or

Rear Speakers

Speaker Configuration
Size
Distance
Level
DRC
Exit
DRC
Exit

or

Speaker Configuration
Size
Distance
Level
DRC
Exit
DRC
Exit

Digital Out

Set up the Digital Audio output for a 5.1 Receiver/Decoder. This menu enables you to set the type of 5.1 output according to your Decoder/Amplifier. The form of each type of Data (Dolby Digital, MPEG or DTS) can be set as a Bitstream or PCM format to suit your Dolby & DTS decoders.

[Digital out] ▶

Digital out

Digital out

Dolby Digital	Bitstream		Bitstream
MPEG	PCM		PCM
DTS	Bitstream		Return
Return			

Select digital output option
◖◗ - Choose   ▶ - Yes   EXIT - Exit

◖◗◖◗ - Choose   ▶ - Yes   EXIT - Exit
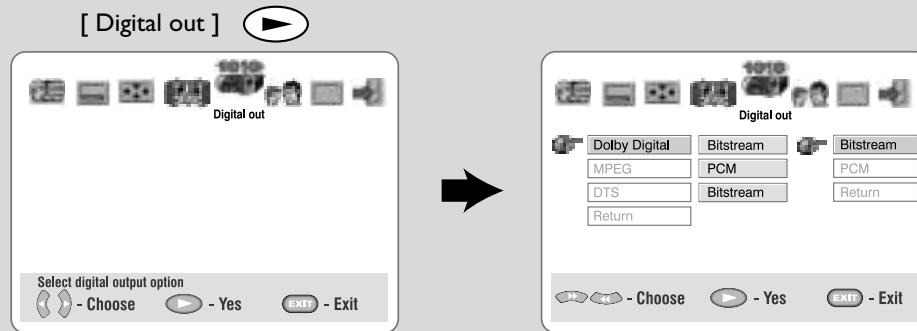
Parental Control

Some DVD discs have a parental level assigned to the disc. The range of parental controls is from 1 to 8. The meaning of the levels 1 to 8 varies depending upon the country and the type of content on the disc.

The player can be set in a similar way. If the player's parental level is set to 8, it will play all discs. If the player's parental level is set below 8, only discs with a lower or equal level will play. For example, if the player is set to 5, only discs with parental control ratings of 5, 4, 3, 2 & 1 will play. To play a higher rated disc, you must change the player's rating to a higher number.

Alternative scenes with a lower rating might be included. The player plays the highest rated scene that the parental setting allows. For example, consider a disc that generally is suitable for most audiences, and it is rated as level 2 for the most part. However, in the middle, there are also scenes rated at 5 (not suitable for children).

The player is delivered without a password. When you set the parental level for the first time, you are invited to enter your own password (e.g. 1, 2, 3, 4). This becomes the password for the player. **You must know this password in order to change it. Some films do not have parental control, the disc will play regardless of the player setting**.

Parental Lock password erase

1   Press and hold **FREQUENCY** ▲ on the front panel *while unplug and plug-in the power cord*.
    ➜ "*PAS ERASE*" will be displayed.
2   Wait until "*PASSWORD ERASE OK*" appear on the TV display, the player will then switch to standby mode 20 seconds later.

Parental Control   Example showing how to set parental level to 3.

[Parental] ▶

Parental

Select parental level option
◖◗ - Choose   ▶ - Enter   EXIT - Exit

[Level] ▶

Parental

Level	< 8 >
Password	
Lock/Unlock	
Panel keys	Off
Return	

Change and lock parental level
◖◗◖◗ - Choose   ▶ - Enter   EXIT - Exit

◀ or ▶ < 3 > ▶

Parental

Level	< 8 >		< 3 >
Password			
Lock/Unlock			
Panel keys	Off		
Return			

Please select the level
◖◗ ◖-◗ - Level   ▶ - Yes   EXIT - Exit

[Return] ▶

Parental

Level	< 3 >
Password	* * * *
Lock/Unlock	
Panel keys	Off
Return	

Return
◖◗◖◗ - Choose   ▶ - Enter   EXIT - Exit

◀◀ X 4

Parental

Level	< 3 >
Password	* * * *
Lock/Unlock	
Panel keys	Off
Return	

Change and lock parental level
◖◗◖◗ - Choose   ▶ - Enter   EXIT - Exit

[4 digits password] ▶

Parental

Level	< 8 >		* * * *
Password			
Lock/Unlock			
Panel keys	Off		
Return			

Please enter a new password
◖-◗ - Password   ◖ - Back   ▶ - Yes   EXIT - Exit

Panel Keys Lock

A second method of parental control is also available in the PANEL KEYS option.
Set panel keys to OFF and the player can only be operated by the remote control.

[Parental] ▶

Parental

Select parental level option
⟨⟩ - Choose   ▶ - Enter   EXIT - Exit

◀◀ X 3 [Panel keys] ▶

Parental

Level	< 8 >
Password	
Lock/Unlock	
Panel keys	On
Return	

Enable or disable front panel keys
⟨⟩⟨⟩ - Choose   ▶ - Enter   EXIT - Exit

◀◀ [Off] ▶

Parental

Level	< 8 >		On
Password			Off
Lock/Unlock			Return
Panel keys	On		
Return			

⟨⟩⟨⟩ - Choose   ▶ - Yes   EXIT - Exit

[Exit] ▶

Parental

Level	< 8 >
Password	
Lock/Unlock	
Panel keys	Off
Return	

Return
⟨⟩⟨⟩ - Choose   ▶ - Enter   EXIT - Exit

◀◀

Parental

Level	< 8 >
Password	
Lock/Unlock	
Panel keys	Off
Return	

Enable or disable front panel keys
⟨⟩⟨⟩ - Choose   ▶ - Enter   EXIT - Exit

On Screen

If the On Screen Display is on, various icons and messages will show on the screen for a few seconds to confirm that a function has been selected.

Example showing how to turn off the On Screen Display.

[On Screen] ▶

On screen

Select on-screen option
⟨⟩ - Choose   ▶ - Enter   EXIT - Exit

◀◀

On screen

On	
Off	
Return	

⟨⟩⟨⟩ - Choose   ▶ - Enter   EXIT - Exit

[Off] ▶

On screen

On	
Off	
Return	

⟨⟩⟨⟩ - Choose   ▶ - Enter   EXIT - Exit

◀◀ X 1 [Return] ▶

On screen

On	
Off	
Return	

⟨⟩⟨⟩ - Choose   ▶ - Enter   EXIT - Exit

On screen

Select on-screen option
⟨⟩ - Choose   ▶ - Enter   EXIT - Exit

DVD/CD OPERATION 27
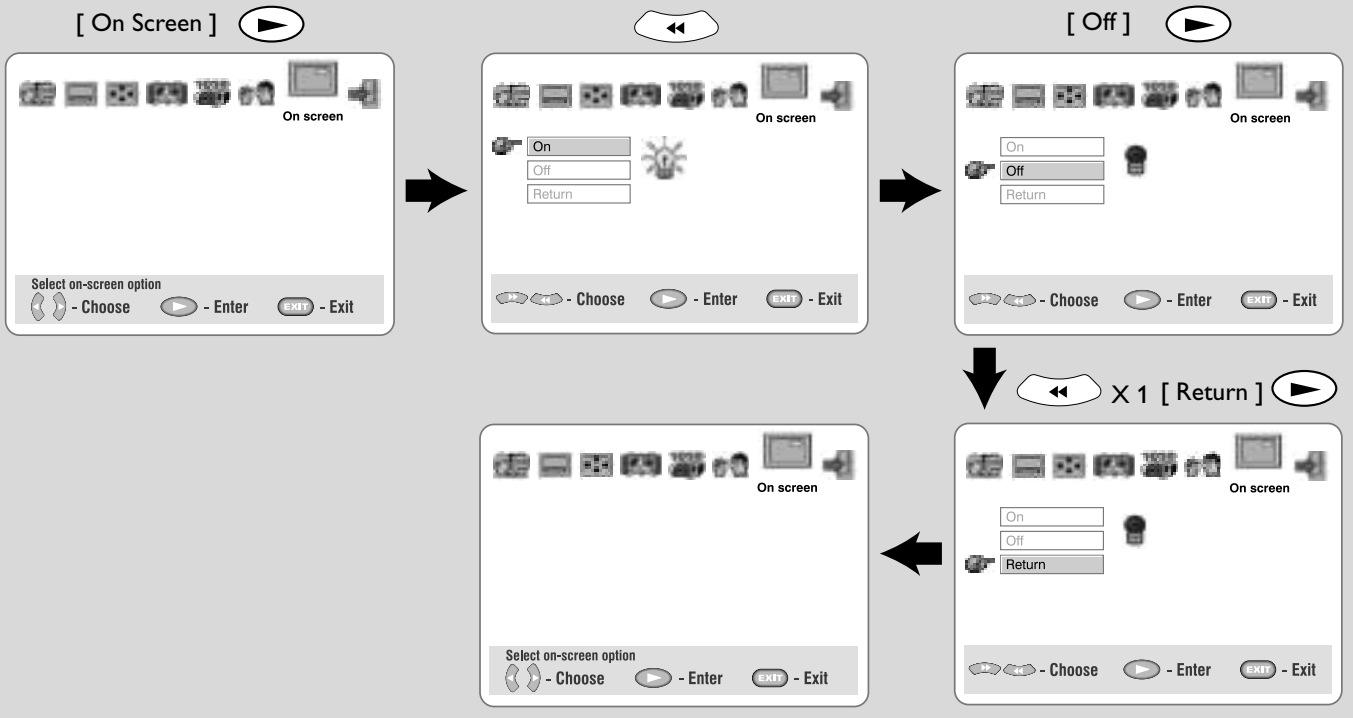
Programme music CD

To display the CD programme menu, the player must be in CD mode and playback must be stopped.

1 Insert a music CD and close the disc tray.
➜ The player will go into CD mode when it identifies the disc.

2 Press **RDS DISPLAY**.
➜ CD Programme Menu will appear.

3 Press ◀◀ / ▶▶ to select a desired track.

4 Press ▶ to store the track in the programme.

● Repeat *steps 3–4* to store other tracks.

5 Press ▶ to save the programme.

Programme Music CD Example showing how to programme favourite tracks from a music CD.

| RDS DISPLAY | > | ►► or ◄◄ | | ►► or ◄◄ | > | P-1 2 | > |) | | ▶ | > | SAVE |

P-1 1

P-1	P-2	P-3	P-4	P-5	P-6	P-7	P-8	P-9	P-10
P-11	P-12	P-13	P-14	P-15	P-16	P-17	P-18	P-19	P-20
P-21	P-22	P-23	P-24	P-25	P-26	P-27	P-28	P-29	P-30

- Choose (- Del) - Add - Save EXIT - Exit

P-1 2

P-1 2	P-2	P-3	P-4	P-5	P-6	P-7	P-8	P-9	P-10
P-11	P-12	P-13	P-14	P-15	P-16	P-17	P-18	P-19	P-20
P-21	P-22	P-23	P-24	P-25	P-26	P-27	P-28	P-29	P-30

- Choose (- Del) - Add - Save EXIT - Exit

P-2 2

P-1 2	P-2	P-3	P-4	P-5	P-6	P-7	P-8	P-9	P-10
P-11	P-12	P-13	P-14	P-15	P-16	P-17	P-18	P-19	P-20
P-21	P-22	P-23	P-24	P-25	P-26	P-27	P-28	P-29	P-30

- Choose (- Del) - Add - Save EXIT - Exit

Index (DVD)

To display the DVD Index Menu, DVD must be playing.

1 While playing a disc, press **RDS SEARCH**.
➜ The film will pause and the Index Menu will appear.

2 Press ◀ / ▶ to select the desired index marker.

3 Press ◀◀ / ▶▶ to display the information of the selected index marker.

4 Press ▶ to confirm the selection.

Index DVD Example showing how to set an Index marker.

| RDS SEARCH | (INDEX) | |) X 2 | | ►► | > | ► |

1	2	3	4	5	6	7	8	9	10

Disc Name : No Entry
Title : XX
Chapter : XX
Time : XX.XX.XX

( ) - Choose   - Add   - Del   - Play EXIT - Exit

1	2	3	4	5	6	7	8	9	10

Disc Name : No Entry
Title : XX
Chapter : XX
Time : XX.XX.XX

( ) - Choose   - Add   - Del   - Play EXIT - Exit

1	2	3	4	5	6	7	8	9	10

Disc Name : THE MATRIX 16X9LB N ANERICA
Title : 01
Chapter : 03
Time : 00.08.23

( ) - Choose   - Add   - Del   - Play EXIT - Exit

Example showing how to play from an indexed point.

| RDS SEARCH | (INDEX) | |) X 2 | > | ► |

1	2	3	4	5	6	7	8	9	10

Disc Name : No Entry
Title : XX
Chapter : XX
Time : XX.XX.XX

( ) - Choose   - Add   - Del   - Play EXIT - Exit

1	2	3	4	5	6	7	8	9	10

Disc Name : THE MATRIX 16X9LB N ANERICA
Title : 01
Chapter : 03
Time : 00.13.28

( ) - Choose   - Add   - Del   - Play EXIT - Exit

AMPLIFIER SECTION

Power Output
- Output power, stereo mode (DIN) .... 2 × 70 W
- Output power, surround mode (1 kHz) .... 70 W RMS / channel
Total Harmonic Distortion .... 0.7% at rated power (1 kHz)
Frequency Response .... 20 Hz – 20 kHz / ±1 dB
Signal-to-Noise Ratio .... > 65dB (CCIR)
Input Sensitivity .... 460 mV
Tone Control .... ±12 dB

TUNER SECTION

Tuning Range .... FM 87.50 – 108.00 MHz (50 kHz steps)
....MW 531 – 1602 kHz (9 kHz steps)
26 dB Quieting Sensitivity .... FM 20 dB
26 dB Quieting Sensitivity .... MW 3162uV/m
Image Rejection Ratio .... FM 75 dB
....MW 28 dB
IF Rejection Ratio .... FM 90 dB
....MW 38 dB
Signal-to-Noise Ratio .... FM 60 dB
....MW 40 dB
Selectivity .... FM 20 dB
AM Suppression Ratio .... FM 30 dB
Harmonic Distortion ....FM Mono 3%
....Stereo 3%
....MW 5%
Frequency Response .... FM 63Hz – 10kHz / ±6 dB
Stereo Separation .... FM 26 dB (1 kHz)
Stereo threshold .... FM 28 dB

DVD SECTION

Laser Type .... Semiconductor
Disc Diameter .... 12cm / 8cm
Playing Time (12cm)   Single Layer 2.12h
                        Dual Layer 4.01h
                        Two Sides, Single Layer 4.26h
                        Two Sides, Dual Layer................................. 8.02h
Video Decoding MPEG-2
Video DAC ....10 Bits
Signal System .... PAL / NTSC
Video Format .... 4:3 / 16:9
Video S/N .... 56 dB (minimum)
Composite Video Output .... 1.0 Vp-p, 75 Ω
S-Video Output .... Y - 1.0 Vp-p, 75 Ω
.... C - 0.3 Vp-p, 75 Ω
Audio DAC.. 24 Bits / 96 kHz
Frequency Response .... 4 Hz – 20 kHz (44.1 kHz)
.... 4 Hz – 22 kHz (48 kHz)
.... 4 Hz – 44 kHz (96 kHz)
Digital Output .... SPDIF Coaxial & Optical

MISCELLANEOUS

Power Supply Rating... 230 V / 50 Hz
Power Consumption (DFR1500, DFR1600) .... 216 W
Dimensions (w × h × d) ....435 mm × 140 mm × 430 mm
Weight ....13 kg

IR REMOTE CONTROL

Effective Range... > 8 Metre
Number of Keys 39
Battery (1.5V) .... AAA × 2

SPEAKERS

Front Speakers
System .... 2-way shielded
Impedance .... 8 Ω
Speaker drivers .... 3'' full range, 1'' piezo
Dimensions (w × h × d) .... 94 mm × 155 mm × 88 mm
Weight .... 0.45 kg

Centre Speaker
System .... 2-way shielded
Impedance .... 8 Ω
Speaker drivers .... 2 × 3'' full range, 1'' piezo
Dimensions (w × h × d) .... 250 mm × 94 mm × 88 mm
Weight .... 0.92 kg

Surround Speakers
System .... 2-way satelite
Impedance .... 8 Ω
Speaker drivers .... 3'' full range, 1'' piezo
Dimensions (w × h × d) .... 94 mm × 155 mm × 88 mm
Weight .... 0.45 kg

SUBWOOFER

Subwoofer (not magnetically shielded design) ....
.... 6.5'' with wOOx technology
Output power .... 50 W (4 Ω, DIN)
THD .... 10% at 55 Hz
Reproduction frequency response .... 30 Hz – 110 Hz
Phase switch ....0°, 180°
Input sensitivity (Subwoofer In) .... 200 mVrms
AC power.. 220 – 230 V / 50 Hz
Power Consumption .... 38.5 W (at 1/8 Rated Power)
Dimensions (w × h × d) .... 200 mm × 310 mm × 370 mm
Weight .... 7.2 kg

Specifications subject to change without prior notice

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