# Meridian 507 Compact Disc Player

## Meridian 507 Compact Disc Player User Guide

#### Sales and service in the UK

Meridian Audio Ltd Stonehill Stukeley Meadows Huntingdon PE29 6EX England

Tel (01480) 445678 Fax (01480) 445686

World Wide Web http://www.meridian-audio.com

#### Sales and service in the USA

Meridian America Inc 3800 Camp Creek Parkway Building 2400 Suite 122 Atlanta GA 30331

> Tel (404) 344 7111 Fax (404) 346 7111

# Designed and manufactured in the UK by

Meridian Audio Ltd Stonehill Stukeley Meadows Huntingdon PE29 6EX England

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## Contents

## Introduction

1

Introduces the 507 compact disc player, and provides an overview of the other products available in the Meridian 500 Series.

The Meridian 500 Series	2
Sample configurations	3
Specification and accessories	5

# Using the compact disc player 7

Provides step-by-step instructions on how to operate the compact disc player, using both the front panel and the Meridian System Remote.

Front panel 8
Switching on and off 9
Playing a disc 10
Stopping, pausing, and repeating play 11
Programming a selection12
Disc information and scanning14

# Setting up the compact disc player 15

Describes how to unpack and install the compact disc player, and gives information about cleaning and servicing your compact disc player.

Unpacking 16
Positioning the compact disc player 17
Connecting the compact disc player 18
Connecting audio 20

# Configuring the compact disc player 23

Explains how to configure the compact disc player to suit the other equipment in your system.

## Troubleshooting 27

Choosing standard settings 24	Prov
Specifying information about	prob
your system25	

# Provides suggested solutions to typical problems.

Troubleshooting28	8
Maintenance	0
Service and guarantee	1
Index	3

## Introduction

The 507 Compact Disc Player combines Meridian's extensive experience of producing audiophile compact disc players with their experience in applying state-of-the-art digital signal processing techniques to audio equipment, resulting in an outstanding compact disc player that takes full advantage of the capabilities of compact disc.

The 507 uses a precision CD-ROM drive, with the data read asynchronously and then triple buffered to isolate output timing from the mechanics of the drive. The data is also dejittered using very precise master oscillators to give a clear, open, authoritative sound. The digital signal is decoded using the latest 192kHz 24-bit dual-differential Delta Sigma digital-to-analogue converter, combined with a discrete class A output for superlative audio performance.

For instructions on setting up the unit turn to *Setting up the compact disc player*, page 15. Once the compact disc player has been set up refer to the next chapter, *Using the compact disc player*, for information about playing discs.

The Meridian 500 Series is a unique system of digital, analogue, and video components designed to meet the demand for absolute quality, ease of use, and lasting value.

The flexibility of the Meridian 500 Series is such that you can assemble a system as simple or as complex as you need, perfectly suited to your musical and environmental requirements, and with the ability to add to it or change it at a later date should your requirements change.

Each Meridian 500 Series component is housed in a matching slim line case. Front panel controls provide access to the most important functions, and the full range of functions is available from the Meridian System Remote using a simple and intuitive control interface.

#### 500 Series communications

The Meridian 500 Series includes a sophisticated communications link, to ensure that any configuration of units will work together as a fully integrated system.

The 500 Series communications system allows you to control any combination of units using a single remote, and ensures that your commands from the remote are interpreted unambiguously. The communications system also allows you to extend your hi-fi system into two or three rooms, with the ability to control the sources in one room from the controller in another room.

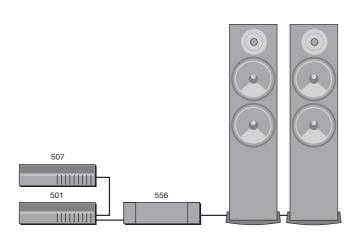
#### **Professional features**

The 500 Series also includes features for professional users, including RS232 computer control.

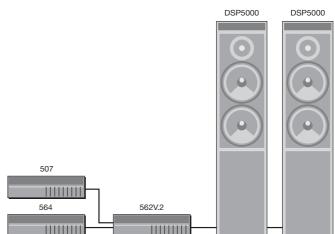
The following pages give examples of three suggested configurations incorporating the 507 Compact Disc Player, to illustrate the flexibility of the Meridian 500 Series.

## 502 Analogue controller

## 562 Digital Control Unit

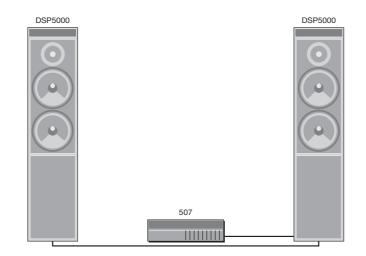


The 507 Compact Disc Player is ideally suited for use with the Meridian 556 Stereo Power Amplifier and analogue loudspeakers, with control over the volume and source selection provided by the 501 Analogue Controller.



The 507 Compact Disc Player provides a precision digital output, and so is ideal for use with the 562V.2 Multimedia Controller. This can also cater for conventional analogue sources, and provide source selection between up to 12 different analogue or digital sources.

## Meridian Digital Music System



The digital output of the 507 Compact Disc Player can be connected directly to Meridian DSP loudspeakers, as these include DSP volume and tone controls. The result is an outstanding music system for those who prefer a minimum of separate units and interconnecting cables.

## Specification

		S
THD	Less than -93dBFS.	
Noise	Less than -93dBFS.	-
Mechanism	Three-beam laser.	Т
Conversion	Dual differential 24-bit Delta Sigma.	C
Display	Eight character dot-matrix display for track and time. Note: Index points are not supported.	C It
Finish	Black textured enamel and glass.	t r
Dimensions	88mm x 321mm x 332mm (3.46" x 12.64" x 13.07").	C
Weight	6.4kg (14lbs).	
Outputs	Analogue: 2V fixed, class A. Digital: co-axial, optical.	
Communications	Two 5 pin 240° DIN sockets. Full RS232 control and status for custom integration and automation.	
Power	Universal supply 100-240V, 50-60Hz, 25W.	

Meridian Audio reserves the right to amend product specifications at any time.

## Available accessories

The following accessories are available from your dealer:

O Power cord Europe.O Power cord Canada and USA.

If you have problems purchasing these items, you can order them direct from Meridian Audio Limited, who can also supply a range of digital cables suitable for connecting the 507 Compact Disc Player to other equipment.

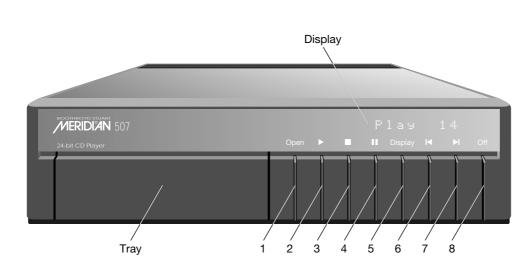
# Using the compact disc player

This chapter provides a summary of the functions of the compact disc player to identify the controls used to operate the unit.

It also describes all aspects of using the compact disc player, beginning with essential instructions such as switching on and loading a disc, to the more advanced functions such as programming.

Unless otherwise specified, each function is available from the front panel or the remote.

## **Front panel**



1 Open

Opens and closes the disc drawer.

- 2 ► (Play) Plays a selected track, or moves to the next track.
- 3 (Stop) Stops the disc.
- 4 II (Pause) Pauses the disc.
- 5 Display Selects the information displayed.
- 6 I◄ (Previous) Selects the previous track.
- 7 ►I (Next) Selects the next track.
- 8 Off

Switches to standby.

## Switching on and off

During normal use the compact disc player should be left in the standby state. This uses a negligible amount of electricity, but ensures that the components of the compact disc player operate at maximum efficiency from the moment you start playing a disc.

If you are not going to use the compact disc player for a period of several days you should switch the unit completely off, at the back panel, and disconnect it from the AC power supply.

## To switch on from standby

● Press Open, ■, II or ▶ (front panel), or select a source on the remote.

## To insert a disc

- Press Open (front panel) to open the drawer.
- Place your disc, label side up, in the tray as shown opposite.
- Press Open (front panel), Function (remote), or > to close the trav.

## To switch to standby





The display will show:

If you have other Meridian 500 Series equipment connected to the compact disc player, these units will also switch to standby.

If a disc is currently playing, switching to standby will stop the disc, and the disc can safely be left in the unit.

## **Playing a disc**

The compact disc player allows you to play an entire disc, or start playing from any track. While a disc is playing you can go back to the start of the track or skip to the start of the next track.

If you have programmed a selection, these functions also work with the selection of tracks you have programmed. For information about programming; see *Programming a selection*, page 12.

If you have other Meridian sources you should ensure that the 507 is the currently selected source.

## To play the disc

#### Press .

The display will show your selection:

The display will then show the track being played:



## To play starting from a particular track

Press

Press

● Press ▶ Ior I to step through the track numbers until the track you want to play is displayed or type the number of the track (remote only).

To restart the current track

To move to the next track

For example:



After a short delay the track you have selected will start to play.

## Stopping, pausing, and repeating play

You can pause a disc while keeping it spinning, so that you can resume play instantly.

You can also set a disc to play repeatedly, so that when the disc (or selection) has played, it will begin again from the beginning. This function is only available from the remote.

## To stop play

Press (Stop).

The display will show the total number of tracks on the disc.

--20

For example:

## To pause play

Press II (Pause).

The disc will remain spinning and the display will show Pause.

For example:



### To continue after pausing

● Press II(Pause) or ► (Play).

To continuously repeat a disc

Press Repeat (remote only).

The Repeat indicator will appear.

## To cancel the repeat function

Press Repeat again.

## **Programming a selection**

With the remote you can programme a selection of tracks, and then play only those tracks you have programmed.

You can programme a selection either by storing the tracks you want to play, or by clearing the tracks you do not want to play. If you programme a selection by storing the tracks you want to hear, you can play the tracks in any order and repeat tracks in the sequence.

You can programme a selection while the disc is playing, in which case the selection will be played after the current track finishes.

Attempting to programme more than 31 tracks will display an error warning:



### To programme by storing tracks

● Press I or > Ito step through the track numbers until the track you want is displayed, or type the number of the track you want.

Track

The display will show the track number; for example:

Press Store.

The display will change to:

You should store the track within two seconds, or it will begin to play.

The track will be labelled Store.

All the other tracks are initially programmed not to play, and will be labelled Clear.

## To programme by clearing tracks

• Press Hor Hto step through the track numbers until the track you want is displayed, or type the number of the track you want.

The display will show the track number; for example:

Track

Press Clear.



The display will change to:

You should clear the track within two seconds, or it will begin to play.

The track will be labelled Clear. All the other tracks are initially programmed to play, and will be labelled Store.

## To add a track to a selection

Select the track you want to add, as described above.

Press Store.

The Clear label will change to Store to indicate that the track is stored.

## To remove a track from a selection

• Select the track you want to remove, as described above.

Press Clear.

The Store label will change to Clear to indicate that the track has been cleared.

## To clear a programme

Press twice (front panel or remote).

The display will show C.P. (Cancel Programme):



A programme sequence is automatically cancelled if you open the disc tray, or press Off.

## **Disc information and scanning**

## To change the display

#### Press Display.

Each time you press **Display**, the display will step between the following options:

Display	Example
Track number. This is the usual display.	가 <sup>나</sup>
Elapsed time for the whole disc.	58:12 14
Elapsed time for the current track.	0:59 14
Time remaining for the whole disc.	1:47 14
Blank.	

## Scanning a disc

The scan controls allow you to move quickly to any position on the disc at approximately 20 times normal speed.

During scanning, the display automatically changes to show the elapsed time for the whole disc, unless you have already selected one of the other time displays.

This function is only available from the remote.

## To scan through a disc

● Press ▶▶or ◀◀(remote).

The display will show your position on the disc; for example:



● Press ► (front panel) when you have reached the point you want.

# Setting up the compact disc player

This chapter explains how to install the compact disc player. It describes what you should find when you unpack the compact disc player, how you should connect it to your other audio equipment, and the siting constraints.

Before you begin installation, you should ensure that your compact disc player is the correct voltage for your local AC supply. If it is not, do not try to install the compact disc player, and contact your dealer.

You should not make any connections to the compact disc player or to any other component in your system whilst the AC power supply is connected and switched on.

## Unpacking

The 507 Compact Disc Player comes in a box containing the following components:

O Meridian 507 Compact Disc Player.
O Meridian System Remote.
O Meridian Comms lead.
O Power cord.
O Optical connector blanking plug.
O This manual.

If any of these items are missing please contact your dealer. We suggest that you retain the packing in case you need to transport the unit.

#### Radio interference

FCC Warning: This equipment generates and can radiate radio frequency energy and if not installed and used correctly in accordance with our instructions may cause interference to radio communications or radio and television reception. It has been type-tested and complies with the limits set out in Subpart J, Part 15 of FCC rules for a Class B computing device. These limits are intended to provide reasonable protection against such interference in home installations.

EEC: This product has been designed to comply with the limits set out in EN55013 and EN55020C.



## Safety warnings

- O Do not expose the unit to dripping or splashing.
- O Do not place any object filled with liquid, such as a vase, on the unit.
- O Do not place naked flame sources, such as lighted candles, on the unit.

## To avoid overheating

Do not position the compact disc player:

- O In direct sunlight.
- O Near heat sources, such as a radiator.
- O Directly on top of heat producing equipment, such as a power amplifier.

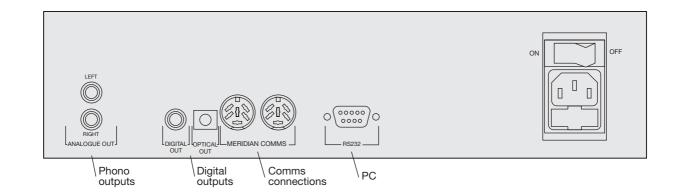
Ensure that air can flow through the cooling slots on the base and top cover.

## To avoid interference

Do not position the compact disc player:

- O Near strong magnetic radiation, such as near a power amplifier.
- O Near to a television, or where connecting cables may be subject to or cause interference.

Back panel	Use this output	To connect to this
The compact disc player provides three alternative signal outputs to allow you to choose the highest-quality method of connection available on the system to which you are connecting.	ANALOGUE OUT	A 501 Control Unit, or other audio equipment, using conventional analogue audio leads
	DIGITAL OUT	Meridian DSP Loudspeakers, a D/A
The 507 Compact Disc Player produces an extremely low-noise low-jitter electrical digital output, and this is the recommended		converter, or digital preamplifier, using digital cable.
method of connection to digital equipment.	OPTICAL OUT	A D/A converter or digital preamplifier,
The following table lists the equipment which uses each of the		using optical fibre.

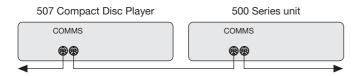


three output types:

## To connect to other Meridian 500 Series equipment

• Connect one of the COMMS sockets on the back panel of the compact disc player to one of the COMMS sockets on another 500 Series unit, using the 500 comms lead provided with the other unit.

The sequence in which you connect the units is not important.



Then configure the units with the following automatic setup procedure:

Switch all the units to standby.

Press Clear on the remote.

Each unit will display:



One unit will then be designated as the controller, and display:

This is the unit that will respond to the remote.

All the other units will be configured as non-controllers, and display:

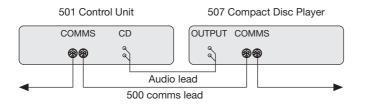


Your system is now set up and ready for use.

If for any reason the automatic setup does not give the configuration you want, restore the default operation by selecting the standard type; see Choosing standard settings, page 24.

Note: Do not, under any circumstances, connect any equipment other than Meridian 500 or 800 Series to the socket marked COMMS on the back of the compact disc player.

## To connect to a 501 Control Unit



 Connect the sockets marked OUTPUT L and R on the back panel of the compact disc player to the CD input on the back panel of the 501 Control Unit.

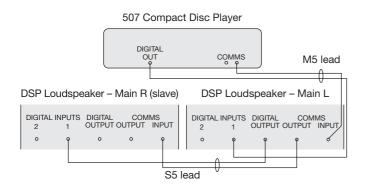
# To connect to a conventional preamplifier

 Connect the sockets marked OUTPUT L and R on the back panel of the compact disc player to an appropriate input on your preamplifier.

You should consult the manufacturer's manual to determine which input to use, but generally it will be labelled CD or AUX.

You should use either a twin-screened audio cable, or a pair of single-screened audio cables. These cables can have a considerable effect on the quality of the sound, and you are advised to seek your dealer's advice on the best type of cables for your system.

# To connect to Meridian DSP loudspeakers



- Connect the DIGITAL OUT from the 507 Compact Disc Player to DIGITAL INPUT 1 on the master DSP loudspeaker, using an M5 lead.
- Connect one of the COMMS sockets on the 507 Compact Disc Player to the COMMS input on the master DSP loudspeaker, using an M5 lead.
- Connect the DIGITAL and COMMS output from the master DSP loudspeaker to the DIGITAL and COMMS INPUTS on the slave DSP loudspeaker, using an S5 lead.

# Configuring the compact disc player

Many advanced aspects of the 507 Compact Disc Player can be configured to alter the way it operates with the other Meridian equipment in your system.

These settings are initially set to standard values, which are suitable for most situations, and this chapter describes how to restore the standard settings.

It then gives details of the more advanced settings and explains how to change them.

## **Choosing standard settings**

The compact disc player provides two standard settings, called Types, which configure the 507 into the most commonly needed configurations.

Choosing a Type overrides any other configuration you may have performed, and so can be used to reset the configuration of the unit.

Type 1 is the recommended Type. Type 2 is provided for compatibility with Meridian 600 or 200 Series units.

#### To restore the standard settings

- Switch off the compact disc player, using the power switch on the back panel.
- Switch on the power again while holding down Off (front panel).

After a short delay the display will show:



For example, to reset to Type 1 the display shows:

## Type

 Switch the power off and then on again, using the power switch on the back panel, to use the 507 with the standard configuration.

24

## Specifying information about your system

You can configure the operation of the 507 Compact Disc Player to suit the way your system is set up, and the way in which you want to use it.

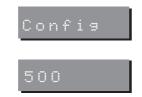
These settings are configured automatically to appropriate values when you choose the standard type settings, and you should not normally need to alter them; see Choosing standard settings, page 24.

## To configure the compact disc player

- Switch off the compact disc player, using the power switch on the back panel.
- Switch on the power again while holding down Display (front panel).

The display will initially show the software revision number, then:

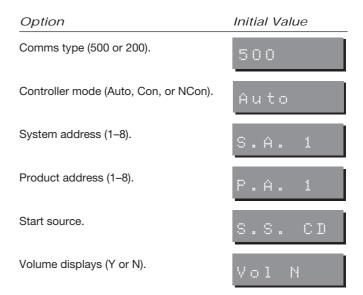
It will then show the first configuration option:



- Press Display to move between the options.
- Press I or I to change the value of the current option.

• Switch the power off and then on again, using the power switch on the back panel, to store the settings.

The table below shows the options you can configure:



## Troubleshooting

This chapter provides suggested solutions to typical problems that may occur when setting up or using the compact disc player.

If you are still not able to resolve a difficulty with the help of this guide and the suggestions in the following pages, please contact your Meridian dealer or Meridian Audio Ltd.

## Troubleshooting

This section describes problems you may encounter when using the compact disc player, and includes suggested solutions.

If these suggestions fail to cure the problem, please contact your Meridian dealer for further assistance.

# No lights are displayed when switching on

- O Check that your AC power supply is connected correctly.
- O Check that the **ON OFF** switch on the back panel is in the ON position.
- O Check that the fuse on the compact disc player back panel and the fuse in the unit's power plug have not blown; see *To change the mains fuse*, page 30.

## The tray will not open

O Check that the standby display is shown.

If the standby display is shown:

O Switch off the compact disc player and disconnect it from the AC power supply.

O Restore power to the compact disc player.

O Try again to open the disc tray.

## There is no sound when playing a disc

- O Check that your preamplifier is switched on, and the volume is at an appropriate level.
- O Check that the compact disc player is connected correctly to the other components of your system; see *Connecting the compact disc player*, page 18.
- O Check that the correct source has been selected on your preamplifier.
- O Try playing another disc. If this disc works, check the problem disc for signs of dirt or damage.

There is interference on the radio and/ or television when the compact disc player is switched on

Before following the steps below, ensure all units are switched off.

If this equipment does cause or suffer from interference to/from radio or television reception then the following measures should be tried:

- O Reorient the receiving aerial (or antenna) or route the antenna cable of the receiver as far as possible from the 507 Compact Disc Player and its cabling.
- O Ensure that the receiver uses well-screened antenna cable.
- O Relocate the receiver with respect to the compact disc player.
- O Connect the receiver and this product to different AC outlets.

## The display shows No disc when attempting to play a disc

- O Check that the disc is positioned correctly in the drawer, with the label uppermost; see To insert a disc, page 9.
- O Try playing another disc. If this disc works, check the problem disc for signs of dirt or damage.

## The display shows Error when attempting to programme a disc

- O Check that the disc includes the track number you are attempting to programme.
- O Check that you have not already programmed 31 tracks, as this is the maximum number permitted.

## Cleaning

When cleaning the compact disc player bear in mind that the front of the 507 is plastic, and the display panel and lid are glass.

Disconnect the power cord before cleaning the unit.

Note: Do not use abrasive cleaners on any part of the compact disc player.

# To clean the case, display panel, and keypad

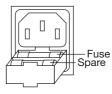
Ensure that no water is allowed to get inside the case, and do not reconnect the power until you are certain that the compact disc player is completely dry.

#### To clean the audio connections

The audio sockets on the back of the compact disc player are gold-plated and need no cleaning if gold-plated phono plugs are used. Otherwise, it is recommended that you unplug and reconnect the plugs at least once a year. A proprietary contact cleaner can be used to some advantage.

The electrical digital output should be treated in a similar way.

## To change the mains fuse



 Remove the mains connector, and pull out the drawer next to the power input to access the fuses.

Before replacing a blown fuse, if possible ascertain the cause of the failure.

The fuse drawer includes a spare fuse. This should be replaced by one of the same rating.

Use a slightly damp cloth.

### Service

The Meridian 500 Series of hi-fi components have been carefully designed to give years of untroubled service. There are no user-serviceable parts inside the case, nor do the units require any form of maintenance.

In the unlikely event that your compact disc player fails to function correctly, it should be returned, in its original packaging, to your Meridian dealer.

In case of difficulty within the UK or USA please contact the appropriate sales and service address shown on page ii.

In case of difficulty outside the UK or USA, contact the importing agent for the territory. A list of Meridian agents abroad is available from Meridian Audio.

No responsibility can be accepted for the compact disc player whilst in transit to the factory or an agent, and customers are therefore advised to insure the unit.

When seeking service under guarantee, proof of the date of purchase will be required.

#### Guarantee

The 507 Compact Disc Player is guaranteed against defects in material and workmanship for 2 years from the date of purchase.

The guarantee is void if the 507 Compact Disc Player has been subject to misuse, accident, or negligence, or has been tampered with or modified in any way without the written authorisation of Meridian Audio Limited. Note that connecting anything other than the correct network lead to the COMMS sockets may cause damage to the 507 Compact Disc Player which will not be covered by this guarantee. Attempted servicing by unauthorised people may also invalidate this guarantee. Labour and carriage charges are not covered unless by local agreement.

Outside the UK, local warranty liability is restricted to equipment purchased within the territory. Our agents abroad are only under contractual obligation to service under guarantee equipment sold through them. They are entitled to make a non-refundable charge for any service carried out on other equipment.

## Index

- A accessories 5 adding a track to a selection 13 analogue out 18
- B back panel 18
- C C.P. display 13 changing the display 14 cleaning the audio connections 30 the case 30 Clear function 13 components 16 configuration options 25 controller mode 25 product address 25 start source 25 system address 25 volume displays 25 configuring 25 connecting to a 501 Control Unit 20 a conventional preamplifier 20 Meridian 500 Series equipment 19 continuing play 11
- D digital out 18
   Display function 14
   displaying disc information 14
   disc time remaining 14
   elapsed disc time 14
   elapsed track time 14
   track (and index) number 14
- E Error display 12, 29
- F front panel controls 8 fuse, replacing 30
- G guarantee 31
- I inserting a disc 9
- M maintenance 30 Meridian 500 Series 2 502 Analogue Controller 3 556 Stereo Power Amplifier 3 562 Digital Control Unit 3 communications 2 Meridian 500 Series operation, setting 19

Meridian DSP loudspeakers, connecting to 21 Meridian System Remote 2

- N No disc display 29
- O optical out 18 outputs analogue out 18 digital 18 optical out 18
- P pausing play 11 playing a disc 10 from a particular track 10 repeatedly 11 programming a selection 12 adding a track to a selection 13 by clearing tracks 13 by storing tracks 12 Clear function 13 clearing a programme 13 removing a track from a selection 13 Store function 12

R radio interference 16 removing a track from a selection 13 repeating a disc 11 restarting the current track 10

S safety warnings 17 scanning a disc 14 service 31 setting up the CD player 15 for 500 Series operation 19 specification 5 standard settings 24 restoring 24 standby mode 9 stopping play 11 Store function 12 switching on from standby 9 switching to standby 9

- T troubleshooting 28
- U unpacking 16
- V ventilation 17

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