

**MERIDIAN 263 $\Delta\Sigma$   
DIGITAL  
CONVERTER  
USER GUIDE**

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CONVERTER  
USER GUIDE**

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Part no: 263ΔΣ/1

This guide was produced by  
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Introduces the 263ΔΣ Digital Converter, and provides an overview of the other products available in the Meridian 200 Series, including the Multiroom system.		Describes how to unpack and install the digital converter, and explains what you should do if it requires servicing or cleaning.	
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# INTRODUCTION

The 263ΔΣ Digital Converter provides the benefits of the latest conversion technology in a separate unit. It is designed for use with either the Meridian 200 Series Compact Disc Players, or other conventional compact disc players.

This guide is designed to enable you to set up the unit, and obtain the best possible results from it.

If you have just purchased the 263ΔΣ Digital Converter you should first turn to the chapter *Setting up the digital converter*, page 9, which explains how to unpack and install the digital converter correctly.

# THE MERIDIAN 200 SERIES

## The 200 Series

The 263 $\Delta\Sigma$  Digital Converter is one of a range of components designed to the same high standards of performance and appearance, and catering for configurations from the simplest conventional single-room hi-fi system, to a Multiroom configuration.

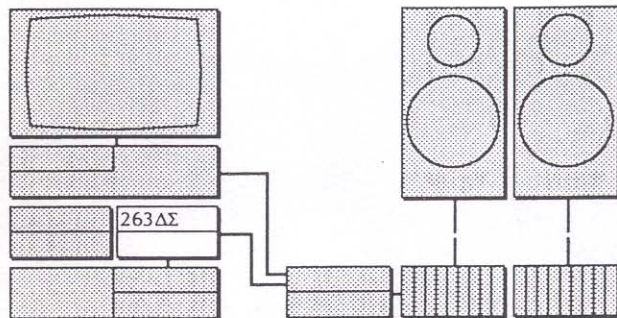
Although designed to produce high-performance sound quality, each 200 Series unit has also been designed to be easy to use, with microprocessor control being applied throughout the range to simplify operation.

## The Multiroom concept

The Meridian Multiroom concept allows you to control any part of your audio system from a separate control unit, not necessarily located in the same room. Meridian products have been designed to provide this flexibility of control without making any compromises in the quality of the sound produced.

The heart of this system is the 201 Remote Control Preamplifier, which can be connected to a Meridian Compact Disc Player and a Meridian 204 FM Stereo Tuner-Timer. Your Multiroom system can also be expanded to include tape-decks, video recorders, and record players.

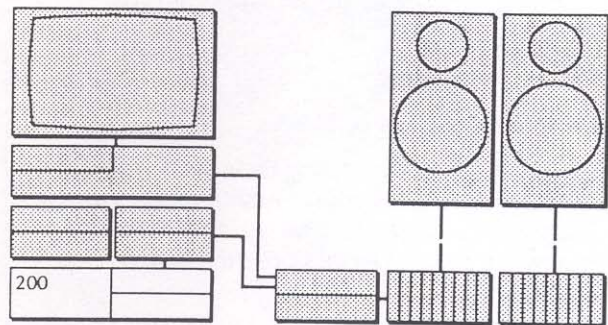
## 263 $\Delta\Sigma$ Digital Converter



The 263 $\Delta\Sigma$  Digital Converter accepts a digital signal, and uses a Crystal Delta-Sigma converter, together with a double phase-locked loop, to produce an extremely stable analogue output.

The 263 $\Delta\Sigma$  Digital Converter can be connected to the following 200 Series products.

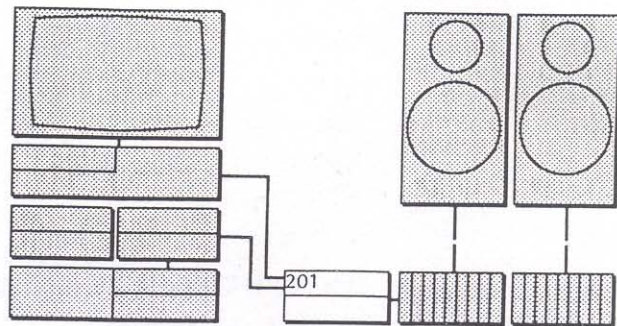
## 200 Compact Disc Player



The 200 Compact Disc Player is a CD transport, which provides the ideal companion to the 263 $\Delta$  $\Sigma$  Digital Converter.

Considerable attention has been given to the design of the servo, which controls the laser, and the error-correction circuits, to ensure maximum fidelity to the original recorded signal and high playability. Great care has also been taken with the 200 Compact Disc Player to ensure reliable performance, and a lasting high-quality of appearance.

## 201 Remote Control Preamplifier



The preamplifier allows you to select which unit in your installation you listen to, and its volume setting. It also enables you to preset the playback levels for each piece of equipment so that switching between them causes no alteration in volume.

For more information about these products, please contact your Meridian dealer.

# SPECIFICATION AND ACCESSORIES

## Specification

Frequency response	20Hz to 20kHz $\pm 0.2$ dB.
Distortion	<0.004%.
Noise	<90dB.
Conversion	Eight times interpolation filter, 64 times Delta-Sigma DAC.
Precision	16 bits.
Inputs	32kHz to 48kHz.
Second lock	44.1kHz and 48kHz.
Inputs	Cable: IEC958, 75 $\Omega$ .
Output	Fixed 2V, 12 $\Omega$ .
Display	Power, EQ indicators, Lock, and 44kHz recorder.
Finish	Black textured enamel and glass.
Dimensions	325mm x 100mm x 320mm (12.9" x 3.9" x 12.6").
Weight	6.4kg (14lbs).
Consumption	20VA.

## Available accessories

The following accessories are available from your dealer:

- Power cord Europe.
- Power cord Canada and USA.

If you have problems purchasing these items, you can order them direct from Meridian Audio, who can also supply a range of digital cables suitable for connecting the 263 $\Delta\Sigma$  Digital Converter to other equipment.

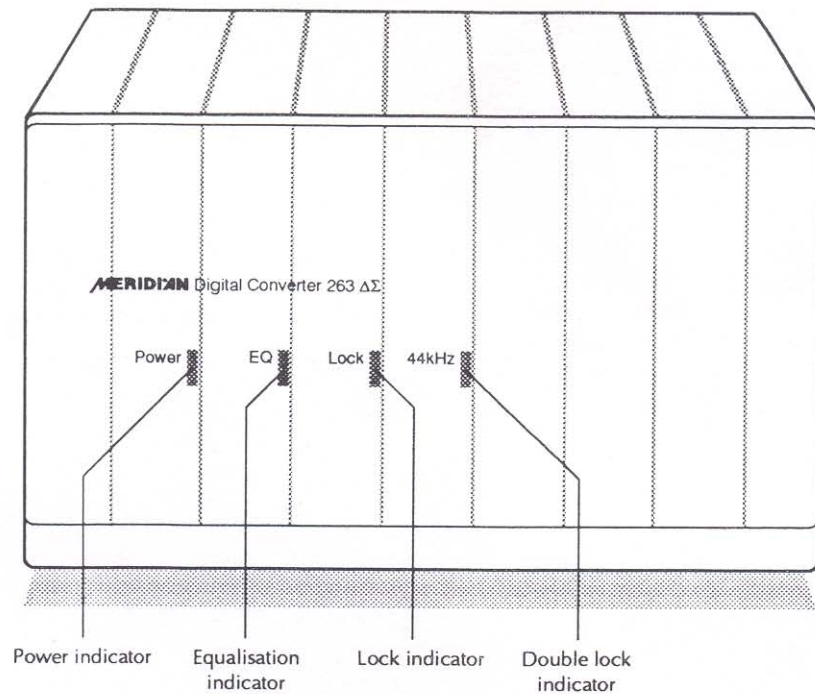
# USING THE DIGITAL CONVERTER

This chapter describes how to use the digital converter, and explains the function of the front panel indicators.

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# FRONT PANEL



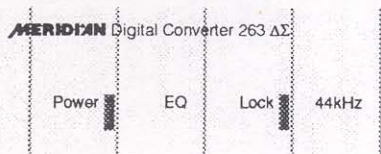
# USING THE DIGITAL CONVERTER

During normal use the digital converter can be left switched on. This uses a negligible amount of electricity, but ensures that the components of the digital converter operate at maximum efficiency from the moment you start playing a disc.

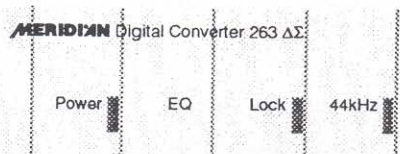
If you are not going to use the digital converter for a period of several days, you should switch the unit completely off, at the rear panel, and disconnect it from the AC power supply.

## To use the digital converter

The digital converter operates automatically whenever it receives a suitable digital signal. It will automatically lock to the input signal providing it is in the correct range, and the **Lock** indicator will be illuminated.



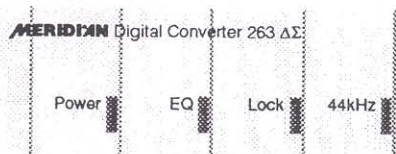
In addition, if the input is from a 44.1 kHz source, such as a compact disc player, double lock will be achieved and the **44kHz** indicator will be illuminated.



## EQ indicator

The compact disc specification allows for a disc to be recorded with preemphasis, which for some types of material can give lower noise levels.

The 263 Digital Converter will automatically correct for preemphasis on playback, and the EQ indicator will be illuminated whenever a disc with preemphasis is being played.



# SETTING UP THE DIGITAL CONVERTER

This chapter explains how to install the digital converter. It covers what you should find when you unpack the digital converter, how you should connect it to your other audio equipment, and the siting constraints.

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

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

# UNPACKING

The 263ΔΣ Digital Converter comes in a box containing the following components:

- 263ΔΣ Digital Converter, packaged in polystyrene and in a plastic bag.
- 1 digital cable.
- 1 power cord.
- This manual.

## To unpack the digital converter

- Remove the digital converter from its box and protective packaging. You should retain this packaging in case you need to transport the unit.

## To position the digital converter

You should avoid the following when positioning the digital converter:

- Placing it on top of a power amplifier, as the heat generated may damage the digital converter. However, it can be stacked on a 200 Compact Disc Player, if you have this Meridian component in your system.

- Direct sunlight.
- Heat sources, eg a central heating radiator.

In common with all digital converters, the digital converter emits some radio-frequency signals. Therefore, you should try to keep all power cables and network leads away from signal cables, including audio, antenna, and loudspeaker cables.

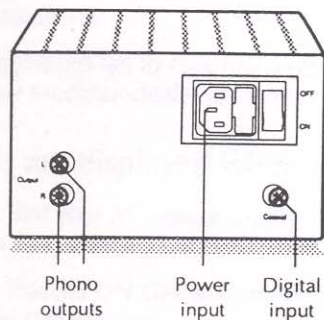
## Radio interference

**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.

# CONNECTING THE DIGITAL CONVERTER

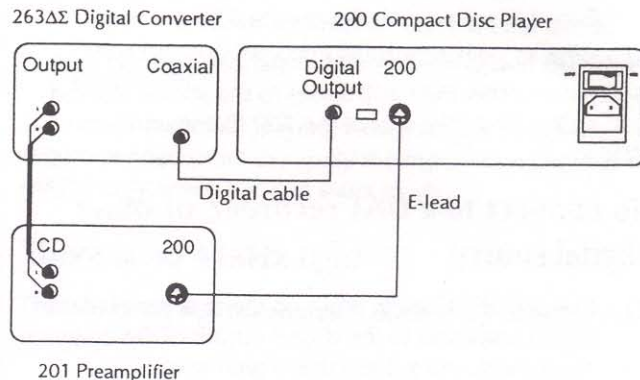
## Rear panel



## To connect to a compact disc player and conventional preamplifier

- ❑ Connect the Coaxial digital input on the rear panel of the digital converter to the digital output of the compact disc player, using a suitable digital lead.
- ❑ Connect the sockets marked output L and R on the rear panel of the digital converter to an appropriate input on your preamplifier, using conventional analogue audio leads.

## To connect to a 200 Compact Disc Player and 201 Preamplifier



- ❑ Connect the Coaxial digital input on the rear panel of the digital converter to the DIGITAL OUTPUT on the rear panel of the 200 Compact Disc Player, using a digital lead.
- ❑ Connect the sockets marked output L and output R on the rear panel of the 263ΔΣ Digital Converter to the CD input on the rear panel of the 201 Remote Control Preamplifier.

- Connect the socket marked 200 COMMS on the rear panel of the 200 Compact Disc Player to the socket marked 200 COMMS on the rear panel of the 201 Remote Control Preamplifier, using the E-lead supplied with the preamplifier.

**Note: Do not**, under any circumstances, connect audio equipment other than 200 Series to the socket marked 200 COMMS on the rear of the 200 Compact Disc Player.

### **To connect to a DAT recorder, or other digital source**

- Connect the Coaxial input on the rear panel of the digital converter to the digital output of the other equipment, using a suitable digital lead.

Suitable cables are available from your Meridian dealer, or Meridian Audio.

# TROUBLESHOOTING

This section describes problems you may encounter when using the 263ΔΣ Digital Converter, 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

- Check that your AC power supply is connected correctly.
- Check that the **ON OFF** switch on the rear panel is in the ON position.
- Check that the fuse on the digital converter rear panel and the fuse in the unit's power plug have not blown; see *Changing the mains fuse*, page 15.

## There is a ticking sound when the compact disc player is paused

This is perfectly normal with some compact disc players, and does not indicate a fault.

## There is no Lock light

- Check that the **Power** indicator is lit.
- Check the digital connection between the digital converter and the compact disc player, or other equipment.

A few compact disc players, which do not conform to recommended practice, apply the digital signal to the output only when the disc starts to play.

## There is no 44kHz light

This indicates that the source is outside the range of the double lock.

## The EQ light flashes when there is no input

This is perfectly normal, and does not indicate a fault.

## **There is interference on the radio and/or television when the digital converter is switched on**

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

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

- Reorient the receiving aerial (or antenna) or route the antenna cable of the receiver as far as possible from the digital converter and its cabling.
- Ensure that the receiver uses well-screened antenna cable.
- Relocate the receiver with respect to the digital converter.
- Connect the receiver and this product to different AC outlets.

# MAINTENANCE

## Cleaning

When cleaning the digital converter bear in mind that the main body of the digital converter is epoxy-enamelled aluminium, and the display panel is glass.

Disconnect the power cord before cleaning the unit.

**Note:** Do not use abrasive cleaners on any part of the digital converter.

## To clean the case

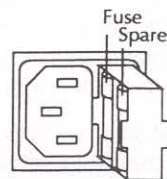
- Use a cloth hardly moistened with a solution of mild detergent and water.

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

## To clean the display panel and keypad

- Use a slightly damp chamois leather.

## Changing the mains fuse



- Remove the mains connector, and pull out the drawer below 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.

# SERVICE AND GUARANTEE

## Service

The Meridian 200 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 packing, 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 digital converter whilst in transit to the factory or an agent, and customers are therefore advised to insure the unit.

## Guarantee

The 263ΔΣ Digital Converter is guaranteed against defects in material and workmanship for 12 months from the date of purchase.

The guarantee is void if the 263ΔΣ Digital Converter 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. Attempted servicing by unauthorised people may also invalidate this guarantee.

Labour and carriage charges are not covered unless by local agreement. When seeking service under guarantee, proof of the date of purchase will be required.

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.

This guarantee does not limit your statutory rights within the United Kingdom.

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