G Series CD Player Installation Guide

Important safety instructions

- Read the instructions.
- Keep these instructions.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Install only in accordance with the manufacturer's instructions.
- Refer all servicing to approved service personnel.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE

This apparatus has been designed with Class 1 construction and must be connected to a mains socket outlet with a protective earthing connection (the third grounding pin).

This apparatus uses a single-pole power switch. As a result it is not isolated from AC mains power when switched off at the rear panel. The apparatus may be isolated from mains power either by unplugging the power connector from the rear of the unit, or by unplugging the connector at the opposing end of the power cord or cable from its supply outlet. As a result, either or both of these connectors should remain accessible

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

To avoid interference
Do not position the product:

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

To avoid overheating
- Leave at least 10cm around the equipment to ensure sufficient ventilation.

Do not position the product:

- In direct sunlight.
- Near heat sources, such as a radiator.
- Directly on top of heat producing equipment, such as a power amplifier.
- On a soft surface, such as a carpet, which would obstruct the ventilation holes in the base.

The product normally runs warm to the touch.

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 and type-tested to comply with the limits set out in EN55013 and EN55020.

CE

Contents

Copyright and acknowledgements

Introduction

This guide provides full information about unpacking the CD player and connecting it to the
other equipment in the system.
Once you have connected the product, refer to the *G Series System Guide* for information
about operating it.

G Series CD Players

The G Series CD Players incorporate advanced design – both digital and analogue. Multi-layer PCBs, multiple power supplies, the latest surface-mount technology, carefully selected audiophile-quality components, and of course Meridian's signature quality design and manufacturing.

At the heart of the CD players is a robust, high-speed slot-loading DVD-ROM drive. Although it normally runs at standard CD speed, the drive is capable of spinning the disc much faster, allowing multiple high-speed re-reads to ensure accurate recovery of data from even the most difficult disc. This feature alone provides ten times the error correction of a conventional CD player.

The G Series CD Players are able to play virtually any compact disc, from conventional pressings to CD-R and CD-R/W. In addition, the players will replay most hybrid discs, as well as DTS CDs for external decoding via the digital outputs.

The CD players employ a buffering system to reduce jitter, which maximises high-frequency transparency and stereo image precision and stability. This is achieved by re-clocking the digital outputs and using a superb direct-coupled audiophile-quality output amplifier.

The G Series CD Players utilise 192kHz, 24-bit capable digital to analogue converters for the very highest analogue quality, while the internal circuitry includes a superb analogue design that complements the high-spec DACs and delivers 2V RMS with less than -90dB noise and distortion. The result is dramatic stereo imaging, and a clear, open, and authoritative sound.

S/PDIF (Sony/Philips Digital Interface, IEC 60958) digital outputs are provided, and both optical (TOSlink/EIAJ) and coax digital formats are included. All audio cable interfaces use gold-plated connectors.

An RS232 serial port is provided for remote control operation. This port can be used to update the CD player's system software, thanks to Flash ROM storage.

G08.2 24-bit Upsampling CD Player

In addition to the features provided by the G06.2, the G08.2
includes powerful on-board Digital Signal Processing (DSP) with
the capability of an impressive 150 MIPS (million instructions per
second). This upsamples the digital information from the 44.1kHz,
16-bit signal of conventional CD to 24 bits, and to a sample rate of
176.4kHz for digital to analogue conversion to drive the analogue
outputs, and 88.2kHz for the digital outputs.

Upsampling enables filtering to take place far beyond the range
of human hearing, as well as offering other audible benefits right
across the audio band, for ultimate transparency from a CD source.

The digital electronics is driven by a new design of high-stability
clocking system which further reduces jitter and ensures that the
highest level of detail is recovered from a disc. All digital data is
accurately re-clocked. Multiple power supplies ensure that digital
and analogue circuitry are kept apart and can provide the required
power when called upon to do so.

The G08.2 CD Player includes both balanced (on XLR connectors)
and unbalanced (on phono connectors) two-channel analogue
outputs.

Specifications

	G06.2	G08.2
THD	Less than 0.003%.	Less than 0.0025%.
Noise	Better than -99dB A weighted.	Better than -100dB A weighted.
Mechanism	ATAPI ROM Drive.	ATAPI ROM Drive.
DSP		Upsampling using 150MIPS Motorola DSP56367.
Convertors	192kHz capable, 24-bit, dual differential, Delta-Sigma, superb Class A analogue design.	
Outputs	Digital: S/PDIF, coax, and optical (TOSlink). 44.1kHz Analogue: 2.3V RMS, 44.1kHz.	Digital: S/PDIF, coax, and optical (TOSlink). 88.2kHz or 44.1kHz. Analogue: 2.3V RMS, 176.4 kHz. Balanced: 4.6V RMS, 176.4kHz.
Comms	2 5-pin 240° DIN sockets, BNC socket, RS232 interface.	
Formats	CD Audio (CD-DA), CD-R, CD-RW.	CD Audio (CD-DA), CD-R, CD-RW.
Power	Transformer, fixed for local voltages, 50/60Hz, 25VA.	Universal supply, 100-240Vac, 50/60Hz, 25VA.
Dimensions	440mm x 90mm x 350mm (17.32" x 3.54" x 13.78") WHD.	
Weight	9kg (20lb) approx.	9kg (20lb) approx.
Controls	Front-panel soft keys include control of Play, Stop, Pause, Previous, Next, etc. Power button, Open/Close tray button. Full remote control of all features via MSR+.	
Display	Multi-character Vacuum Fluorescent Display. **Note:** Index points are not supported.	

Installing the CD player

This chapter explains how to install the CD player. It describes what you should find when you unpack the product, and how you should connect it to the other equipment in the system. You should not make any connections to the product or to any other component in the system while the AC power supply is connected and switched on.

Unpacking

The G06.2 24-bit CD Player and G08.2 24-bit Upsampling CD
Player are supplied with the following accessories:

• MSR+ remote control with batteries, manual, and spare key caps.
• Meridian Comms lead.
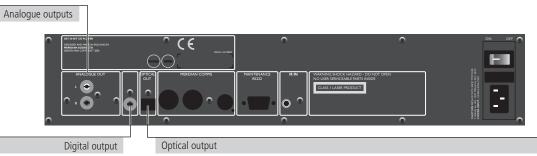• Power cord.
• This manual.
• *Meridian G Series System Guide*.

If any of these items are missing please contact your dealer.

Note: You should retain the packaging in case you need to
transport the unit.

Audio connections

G06.2 24-bit CD Player

Analogue outputs

Digital output   Optical output

Use this output	To connect to this
ANALOGUE OUT	The analogue inputs of a preamplifier, such as the G01 Control Unit, or an integrated amplifier, such as the G51 Receiver, using analogue phono leads.
DIGITAL OUT	The digital input of a surround processor, such as the G68 Digital Sound Controller, or DSP loudspeakers, using a 75Ω digital cable.
OPTICAL OUT	The optical input of a digital preamplifier or digital recorder, using a TOSlink optical cable.

G08.2 24-bit Upsampling CD Player

Unbalanced outputs

Balanced outputs

Digital output

Optical output

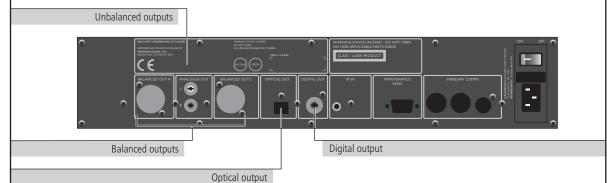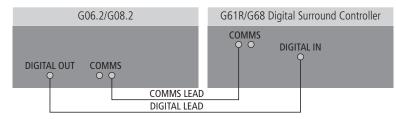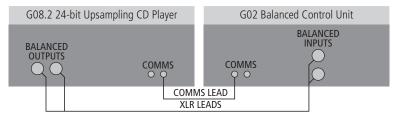| Use this output	To connect to this
BALANCED OUT	The balanced analogue inputs of a preamplifier, such as the G02 Balanced Control Unit, using XLR leads.
ANALOGUE OUT	The unbalanced analogue inputs of a preamplifier, such as the G01 Control Unit, or an integrated amplifier, such as the G51 Receiver, using analogue phono leads.
DIGITAL OUT	The digital input of a surround processor, such as the G68 Digital Surround Controller, or DSP loudspeakers, using a 75Ω digital cable.
OPTICAL OUT	The optical input of a digital preamplifier or digital recorder, using a TOSlink optical cable.

To connect to a digital surround controller (eg G68)

G06.2/G08.2	G61R/G68 Digital Surround Controller

```
                                      COMMS
                                       ○  ○        DIGITAL IN
                                                       ○
   DIGITAL OUT    COMMS
       ○           ○  ○
                         COMMS LEAD
                         DIGITAL LEAD
```
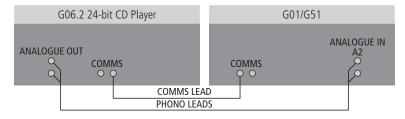
• Connect the DIGITAL output from the G06.2 or G08.2 to a
  suitable DIGITAL input on the digital surround controller, using a
  digital lead.

• If the digital surround controller is a Meridian product connect
  together the COMMS sockets using the Comms lead provided.

To connect the G08.2 to a preamplifier with balanced inputs (eg G02 Balanced Control Unit)

G08.2 24-bit Upsampling CD Player	G02 Balanced Control Unit

```
                                                        BALANCED
                                                         INPUTS
   BALANCED                                                 ○
   OUTPUTS                   COMMS        COMMS
    ○   ○                     ○  ○         ○  ○             ○
                               COMMS LEAD
                               XLR LEADS
```
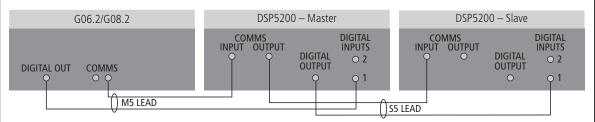
• Connect the BALANCED outputs from the G08.2 to the balanced
  inputs on the preamplifier, using XLR leads.

• If the preamplifier is a Meridian product connect together the
  COMMS sockets using the Comms lead provided.

To connect to a preamplifier with unbalanced inputs (eg G01/G51)

G06.2 24-bit CD Player	G01/G51

ANALOGUE OUT

COMMS

COMMS

ANALOGUE IN
A2

COMMS LEAD

PHONO LEADS

• Connect the ANALOGUE OUT outputs from the G06.2 or G08.2
to the unbalanced inputs on the preamplifier, using phono leads.

• If the preamplifier is a Meridian product connect together the
COMMS sockets using the Comms lead provided.

To connect to Meridian DSP loudspeakers (eg DSP5200s)

G06.2/G08.2	DSP5200 – Master	DSP5200 – Slave

COMMS
INPUT   OUTPUT

DIGITAL
INPUTS

DIGITAL
OUTPUT

2

DIGITAL OUT   COMMS

1

COMMS
INPUT   OUTPUT

DIGITAL
INPUTS

DIGITAL
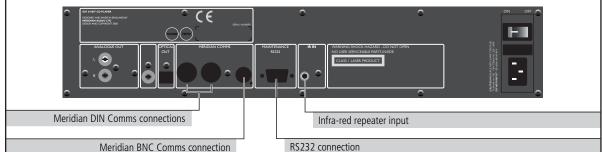OUTPUT

2

1

M5 LEAD

S5 LEAD

The G06.2 and G08.2 can be connected directly to Meridian
DSP loudspeakers to create a complete compact stereo system,
with volume and other preamplifier controls provided by the
loudspeakers via the MSR+.

• Connect the DIGITAL output and a COMMS socket from the CD
player to DIGITAL INPUT 1 and the COMMS input on the DSP
loudspeaker chosen as the master, using an M5 lead.

• Connect the DIGITAL and COMMS outputs from the master DSP
loudspeaker to DIGITAL INPUT 1 and the COMMS input on the
other (slave) DSP loudspeaker, using an S5 lead.

• Configure the loudspeakers as described in the *Meridian DSP
Loudspeaker User Guide*.

• To display the system source and volume on the CD player,
choose Type 2; see *Resetting the CD player*, page 13.

Communications connections

Meridian DIN Comms connections

Infra-red repeater input

Meridian BNC Comms connection

RS232 connection

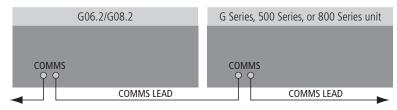| Use this connection	To connect to this
DIN COMMS	Other Meridian G Series or 800 Series equipment, or Meridian DSP loudspeakers.
BNC COMMS	Meridian components with BNC Comms connections.
RS232 connection	A computer, for configuring the CD player.
IR IN	A G12 IR Receiver, or approved alternative infra-red repeater. Contact your dealer for details.

To connect to other Meridian G Series or 800 Series equipment

G06.2/G08.2	G Series, 500 Series, or 800 Series unit
COMMS	COMMS

COMMS LEAD   COMMS LEAD

In a system of Meridian products the products should be linked together in a chain, via the COMMS sockets, using the Comms leads supplied with each product. The sequence in which you connect the units is not important.

One of the products acts as the controller for the system, receiving infra-red commands from the MSR+, and then, if appropriate, relaying them to the other products via the Comms link. The following procedure should be used to set up the Comms correctly between several products:

• Switch all the units to standby.

• Press **Clear** (MSR+).

Each unit will display:

> ### Auto

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

> ### Con.

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

> ### Not Con.

The system is now ready for use.

If the automatic setup does not work, first make sure you are operating the MSR+ from a position where all the units can receive the infra-red, and try again. Then:

• Check that none of the units have been configured to be IR Controller; see *Resetting the CD player*, page 13. Either all products should be set to Auto, or one should be configured as Controller and the others as Not Controller.

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

Resetting the CD player

This chapter explains how to reset the CD player using the front-panel controls.

Resetting the product

The CD player provides several alternative standard settings, called Types, which configure all aspects of the product into the most commonly needed configurations.

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

To reset the configuration

• If necessary press **On/Off** to put the CD player into standby.

• Press **More**.

The display shows:

```
 Version        IR  Reset
```

• Press **Reset**.

The display shows:

```
       Reset Player
        Exit       Yes
```

• Press **Yes** to reset the CD player settings.

The display shows the current Type:

```
              Type 1
       Select        ▼    ▲
```

• Press ▲ or ▼ to step through the available Types.

A description of each Type is shown on the top line of the display. As you select each Type the CD player is reset to that Type.

When you have selected the Type you want:

• Press **Exit** or **On/Off** to return to standby.

To toggle the IR mode
• If necessary press **On/Off** to put the CD player into standby.
• Press **More**.

The display shows:

```
Version          IR   Reset
```

• Press **IR** to toggle between **IR Auto** (auto setup), **IR Con** (controller), and **IR N.Con** (not controller).

• Press **Exit** or **On/Off** to return to standby.

Types

The following table lists the available Types:

Type	Description
Type 1	Volume display off.
Type 2	Volume display on.
Type 3 (G08.2 only)	Volume display off, digital output limited to 44.1kHz. Used for DTS CD decoding via an external decoder.

Although the CD players do not include a volume control, they can optionally display the system source and volume, for example when used with a pair of DSP420 In-Wall Loudspeakers.

Troubleshooting

We expect you to achieve superb results with the CD player. If, however, you encounter any problems, either when installing it, or during operation, please check the following pages for suggested solutions.
If these suggestions fail to cure the problem, please contact your Meridian dealer for further assistance.

General operating problems

The front panel shows 'Error' or 'No Disc' when attempting to play a disc

• Check that the disc is the correct way up.

• Try playing another disc. If this disc works, check the problematic disc for signs of dirt or damage.

The CD player will not play a particular disc

• The disc may be scratched or faulty. Examine it for damage, and try playing it on another product.

Although we have made every effort to ensure complete compatibility with all supported disc types, it is impossible to check the correct operation of every function of the G Series CD player with every available disc; furthermore, some discs currently on sale do not conform to the agreed format specifications. We cannot therefore accept any responsibility for discs that will not play correctly, even if they play correctly on other brands of player.

There are several Web sites that give details of discs with known playback problems. Please check these to see if the disc is listed.

No lights are displayed when switching on
• Check that the AC power supply is connected correctly.

• Check that the **ON OFF** switch on the back panel is in the **ON** position.

There is interference on the radio and/or television when the CD player is switched on
Before following the steps below, ensure all units are switched off.

If this equipment suffers interference from, or causes interference to, 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 CD player and its cabling.

• Ensure that the receiver uses well-screened antenna cable.

• Relocate the receiver with respect to the CD player.

• Connect the receiver and this product to different AC outlets.

Audio problems
There is no sound when playing a disc
• Check that the preamplifier is switched on, and the volume is at an appropriate level.

• Check that the CD player is connected correctly to the other components of your system; see *Installing the CD player*, page 5.

• Check that the correct source has been selected on your preamplifier.

• Try playing another disc. If this disc works, check the problem disc for signs of dirt or damage.

Maintenance

Cleaning

To clean the case, display panel, and keypad
• Disconnect the power cord before cleaning the unit.

The exterior surfaces of Meridian G Series products are made from solid anodised aluminium, powder coated steel, thermoplastic rubber, and glass.

They are designed to be easily wiped clean with a dry, lint free cloth. Greasy marks should be removed by light rubbing with a slightly damp cloth and a trace of proprietary glass cleaner. Do not use any other solvent or abrasive based cleaners.

Ensure that no liquid enters the casework and that the product is completely dry before re-connection.

To clean the audio connections
The audio sockets on the back of the product are gold plated and do not need to be cleaned if gold-plated 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.

To change the mains fuse
• Remove the mains connector, and pull out the drawer above the power input to access the fuse.

Before replacing a blown fuse, it is best to ascertain the cause of the failure.

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

Service and guarantee

Service

The Meridian G Series of hi-fi components has 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 product 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 iv.

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

No responsibility can be accepted for the product 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 product is guaranteed against defects in material and workmanship for two years from the date of purchase.

The guarantee is void if the product 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:** Connecting anything other than the correct network lead to the Comms sockets may cause damage to the product 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 outside the UK 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 country of purchase.