

MERIDIAN M60C USER GUIDE

Meridian Audio Ltd
14 Clifton Road
Huntingdon
Cambridgeshire PE18 7EJ
England
Tel (0) 1480 52144
Fax (0) 1480 459934

Meridian America Inc
3800 Camp Creek Parkway
Building 2400 Suite 112
Atlanta GA 30331
USA
Tel (404) 344-7111
Fax (404) 346-7111

Author: Duncan M Smith

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Introduction

In choosing a Meridian M60C Centre Channel Loudspeaker, you have acquired refined equipment which will bring you listening pleasure for many years to come. Whether as part of an enhanced stereo system or a full home theatre, the centre channel is designed to bring you the highest quality sound possible. This manual should help you get the best from it.

If you have any queries regarding the M60C, remember that your Meridian Dealer has been selected for his expertise. You should refer to him in the first instance.

General Description

The M60C is part of the current range of Meridian Active Loudspeakers. They use built-in power amplifiers specifically tailored for the cabinet and drive units to give a perfectly matched system. This superior approach to the design of high-fidelity loudspeaker systems has been a speciality of Meridian for fifteen years.

Your M60C has two inputs, unbalanced and balanced, an electronic crossover and three power amplifiers, one for each of the drive units. The drive units are:

2 x 160mm shielded polypropylene bass and bass/midrange
1x 25mm aluminium custom dome shielded tweeter

The Boothroyd|Stuart Meridian tweeter has a number of features:

- silver voice coil
- semi- horn loading, for improved sensitivity and dispersion characteristics
- ferro-fluid damping
- correctly aligned rear enclosure

Unpacking

Inside the packaging you should have found:

- 1 M60C Active Loudspeaker complete with grilles
- 4 self-adhesive rubber feet to protect furniture
- this manual
- 1 power cord suitable for your territory
- 1 phono-phono analogue audio lead

If any of these items is missing, please contact your dealer. We suggest that you retain the packaging carefully, as it provides maximum protection in transit.

WARNING: Take great care when unpacking or repacking the M60C that you do not put undue pressure on the front, as the drive units may be damaged if pressed.

Getting Going

IMPORTANT Before connecting to the AC supply, check that the unit has been manufactured to the correct supply voltage for your territory.

Do not make any alterations to the connections of your system with the M60C AC power switched on.

To get going:

- Use the audio cable supplied to connect the unbalanced input of the speaker to an appropriate preamplifier or surround sound decoder.
- Switch on the power at the source at a low volume level.
- Connect the M60C to AC power with the cord provided.
- Switch on the M60C with the switch located next to the AC power inlet. A green light should appear at the front of the unit and you should be able to play music.

If you cannot hear any sound, refer to **Help!**

Installing your M60C

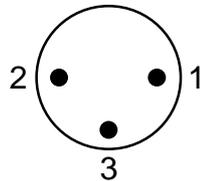
This section explains how to get the best from your M60C installation. If your system includes a Meridian 565 Digital Surround Processor, you will find more information on correct installation in its *User Guide*.

Connections

AC power connects to the M60 at the left hand end of the speaker viewed from the front. Where possible connect the M60C to a grounded socket using the mains lead provided. Try to use a separate AC power outlet for each active speaker. The use of adapter units is discouraged as they degrade the sound quality.

Unbalanced audio may be connected to the single phono socket. This can be connected to any preamplifier or surround sound decoder such as the Meridian 565 Digital Surround Processor. In this case connect to the Analogue Centre output.

Balanced audio may be connected instead using the **Balanced Input** XLR socket. If your preamp or surround decoder has a balanced output, it may be connected as follows.



Connections to XLR:

1. Shield and ground or common.
2. Signal phase positive.
3. Signal phase negative.

Siting

We recommend that you now set up the system so that you can listen to music and adjust the position of the M60Cs if necessary.

Vertical operation

Although primarily intended for horizontal mounting, the M60C can also be used in the vertical orientation. The best sound would result from a position which is 90 degrees clockwise from the 'normal' orientation.

As a Centre Channel

The M60C is ideally suited as a centre-channel speaker for surround sound installations.

The location you choose will depend on whether you intend the surround system for music only or whether it is to be used in conjunction with a TV, monitor or video projector.

If the application is music only, place the speaker centrally between the main left–right pair and arrange for the tweeters of the three speakers to be approximately the same height ¹.

If the application is video-associated then the constraints of the video system will largely dictate the position.

If at all possible note the following guidelines:

- Height of left – centre – right to be as even as possible.
- Above a TV is vastly better than below.
- Directly on a TV is OK, the M60C is magnetically shielded.
- Below a TV will work if adequate cooling is available.
- In a custom cabinet it is entirely the responsibility of you and your dealer to ensure adequate ventilation. If in doubt this can be determined by operating the unit and monitoring the temperature of the backplate which is also the heatsink.
- Permanent wiring to a building is prohibited by most building codes.

¹ Preferably within 1 foot, 30cm.

As a Left – Right or a Surround pair

The locations chosen for a pair of M60Cs are crucial to getting the best possible acoustic result. For two-channel stereo, the two speakers should ideally be equidistant from the main listening position, and the same distance apart.

Since it has a horizontal format, the M60C can be mounted on a strong shelf or on a suitable stand – about which your dealer can advise.

General guidelines

In order to get the best acoustic performance from your M60C in your room, you should try to achieve the following:

- If possible, have the most acoustically absorbent wall in the room behind the front speakers. They could, for example, be in front of an open bookcase or curtained window, or on each side of a bow window.
- If possible, have each M60C at least 50cm from a corner.
- If possible, locate the listening position so that your head is at least 60cm from the wall behind you (unless this is acoustically absorbent).

Consider the following practical points:

- If possible, you should locate the M60C so that the electronics (back) of the speaker are not subjected to long-term strong sunshine. The back plates should be cool (less than hand-hot) when the unit is not in use.
- You should not, if possible, locate a M60C with its back to any heat source – for example, a central heating radiator.
- You should not, locate a M60C with its back fully enclosed so that it cannot dissipate heat from the rear-panel heatsink.

Final adjustments

The best sound possible will only be obtained if the M60C is firmly mounted and cannot rock.

Operation

Normally the M60C should be left switched on, even when the unit is not in use. The sound quality of the unit is at its best when the temperature of the components has reached normal working levels. This takes about an hour.

The electronics in the M60C use the very latest techniques to ensure that the idle power consumption of the unit is very low. This ensures long periods of cool running and low energy consumption.

All audio equipment should be switched off if you expect to be away from the installation for an extended period.

Maintenance

There are no user serviceable parts inside the M60C.

One or two days after installation check the tightness of the fixing screws of the loudspeaker drivers. These screws may loosen slightly in shipping or with extremes of temperature or humidity, and the speaker will not sound at its best with them loose. Do not over tighten them. It is worth checking these screws after transit or extended periods of loud playing.

The electronics do not need routine maintenance.

The audio sockets are gold plated and, where gold plated phono sockets are used, there should be no need to clean the contacts. Other phono plugs should be unplugged and replugged once a year. Some proprietary contact cleaners may be used to advantage, but you should seek the advice of your dealer.

Help!

No Sound.

- Check the AC power supply to the M60C. The green light on the front should be lit.
- Check the AC supply to the other units in the system.
- Check correct source is selected and that the source itself is producing music.
- Check interconnections are made to the correct sockets.

Unit goes silent when played hard.

M60C has a temperature sensing system on board which prevents overheating of the electronics. The sound will continue when the speaker has cooled.

Cleaning

The cabinet of the M60C is finished with veneer and may be wiped clean with a damp cloth.

The display panel is glass, and should be cleaned using a barely damp chamois leather.

Do not use abrasive cleaners on any part of the M60C.

Service

The Meridian M60C has been carefully designed to give years of untroubled service.

In the unlikely event that your M60C fails to function correctly, it should be returned, in its original packing, to your Meridian dealer. In case of difficulty, please write to the following address if you live in the UK:

Digital Gramophone & Wireless Ltd
14 Clifton Road
Huntingdon
Cambridgeshire PE18 7EJ

Outside the UK, contact the importing agent for the territory. A list of Meridian agents abroad is available from the above address.

No responsibility can be accepted for the M60C while it is in transit to the factory or an agent, and customers are therefore advised to insure the unit.

In the USA and Canada, contact

Meridian America Inc.
3800 Camp Creek Parkway
Building 2400 Suite 112
Atlanta GA 30331
Tel (404) 344-7111
Fax (404) 346-7111

Guarantee

The Meridian M60C is guaranteed against defects in material and workmanship for 12 months from the date of purchase.

The guarantee is void if the M60C has been subjected to misuse, accident or negligence, or has been in any way tampered with or modified without the written authorisation of DGW Ltd.

Attempted servicing by unauthorised people may invalidate the guarantee.

Labour and carriage charges are not covered unless by local agreement.

If you request 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 contractually obliged to service under guarantee only 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.

Specification

Audio Inputs	
Unbalanced	775mV (nominal), gold plated phono
Balanced	3Vrms max, XLR
Power Amplifiers	
	Complementary bipolar design, with output-stage error correction and twin loop design
Tweeter	65W mean power
Mid + Bass	65W mean power
Bass	65W mean power
Distortion	<0.05%, typically less than 0.01% up to full power at all frequencies
Noise and hum	< -94dBr
Acoustic	
Output	Typically > 108dB spl @ 1m
Noise	< 15dB spl @ 1m
Frequency response	In room response within 3dB, 45Hz–20kHz
Crossover	Double Butterworth at 2.6kHz, First Order at 400Hz
Drive units	
Bass	2 x 160mm polypropylene high-efficiency long-throw shielded custom drivers
Tweeter	Meridian 25mm piston in short horn: aluminium dome with silver voice-coil.
Cabinet	
	Constructed from fine veneered MDF
Dimensions	195x670x280mm
Weight	20 kg each
Power	100–125; 200-230; 210–250V AC 50–60Hz 10VA idle; 200VA max