



UP1 Reference

MC-MM Phono Preamplifier



Owner's Manual

<i>Section</i>	<i>Page No.</i>
Introduction	3
Warnings	3
Packaging	3
Interconnect Cables	3
Identification of Connections & Controls	4
Setting up your UP1 Reference	5
<i>Adjustment of Switches</i>	5
<i>Gain Setting</i>	5
<i>Moving Coil setup</i>	5
<i>Moving Magnet setup</i>	5
<i>Moving Magnet Parallel Capacitance Settings (DIP10)</i> ...	6
<i>Additional Gain Setting Examples for MM and MC (DIP4)</i>	6
Specifications	7
Warranty	7

Introduction

Thank you for choosing the UP1 Reference to be a part of your high performance music listening system. Each UP1 Reference is handcrafted, using the very latest, no compromise, cutting edge technology and componentry. This ensures the best possible sound reproduction currently available and guarantees many years of listening enjoyment.

We understand that you are eager to begin listening; however, please take a few minutes to read through this guide for useful information concerning the operation of your new phono amplifier. OAD Ultrafidelity equipment takes a considerable time to run in before it performs at its best. The duration varies, but under some conditions the sound may continue to improve for over a month. Better and more consistent performance will be achieved if the system is left switched on for long periods. It is worth remembering however that equipment left connected to the mains can be damaged by lightning.

After reading this manual, if you have any further questions regarding your preamplifier, contact your dealer or OAD Ultrafidelity customer service – they will be happy to help you to make the most of your new component.

Happy Listening!

Warnings

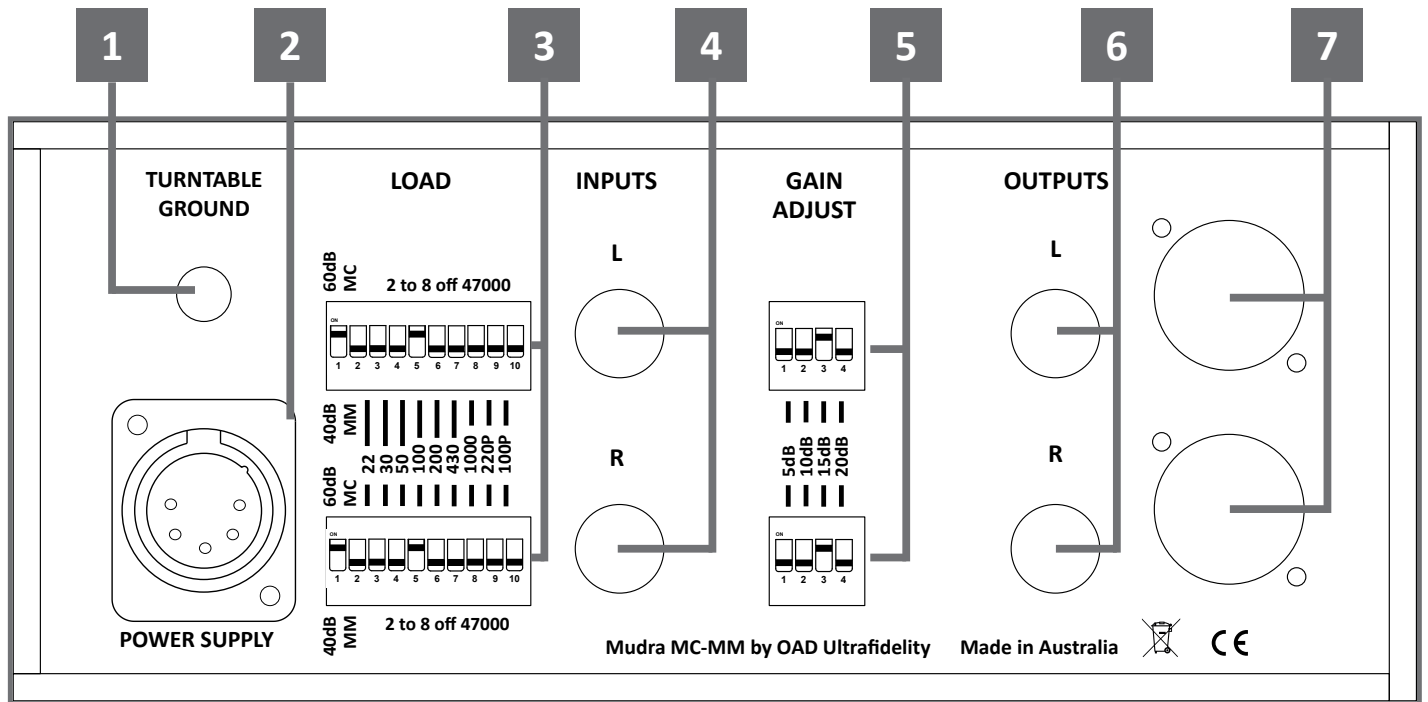
- To prevent fire, or shock hazard, do not expose your UP1 Reference to rain or moisture.
- Do not place objects containing water on top of this unit.
- This unit contains voltages which can cause serious injury or death.
- Do not operate with covers removed. Refer servicing to your authorized OAD Ultrafidelity dealer or service personnel.
- A power cord is shipped with your UP1 Reference that meets the required safety standards. It is important for both safety and performance that the standard cable supplied is not modified.
- Your hi-fi system, including the UP1 Reference, can be damaged by lightning and should be turned off and disconnected from the mains when there is risk of lightning strike.
- We recommend that all connections to the UP1 Reference are made with the mains power cord disconnected.

Packaging

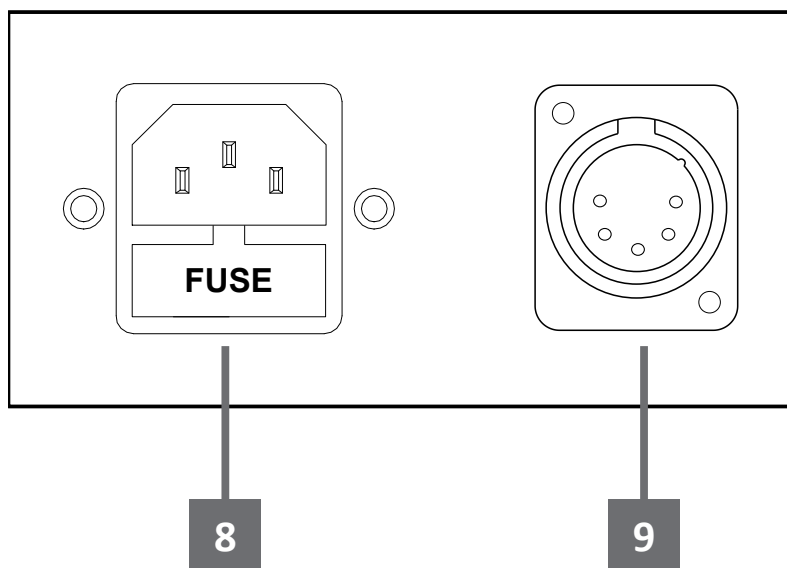
Save all packaging in a dry place away from fire hazard. Your UP1 Reference is a precision electronic instrument and should be properly boxed any time shipment is made. It is very unlikely that you will have to return your unit to the factory for service, but if that should prove necessary, the original packaging will protect your UP1 Reference from unnecessary damage or delay.

Interconnect Cables

RCA/Phono Interconnect plugs and sockets should be kept clean and free from corrosion.



- 1 TURNTABLE GROUND CONNECTOR
- 2 POWER SUPPLY INPUT
- 3 MC/MM and LOAD SETTING (DIP10)
- 4 PHONO IN
- 5 GAIN ADJUST (DIP4)
- 6 SINGLE ENDED PHONO OUT
- 7 BALANCED PHONO OUT



- 8 AC MAINS INPUT
- 9 POWER SUPPLY OUTPUT

Setting up your UP1 Reference

The UP1 Reference gives vinyl playback with the lowest noise figure possible. The UP1 Reference is able to play extremely low output moving coil (MC) cartridges without a step-up transformer. The extremely low noise and high gain design of the phono card is capable of cleanly and quietly delivering a line level signal output with a phono cartridge input of down to 60 micro-volts (60uV). Parallel capacitance can be adjusted from 100 pF to 420 pF.

Adjustment of switches

Adjustment is to be made with the UP1 Reference switched off, or better still, with your power amplifier switched off. Changes made to the phono card loading have the possibility of sending pulses to your power amplifier that could damage speakers if the volume of the preamp is set sufficiently high.

On the rear panel you will see two pairs of DIP switches (DIP10 & DIP4) for both left and right channels. These switches allow you to: select cartridge type (moving magnet or moving coil); select gain; and adjust cartridge loading.

A graphic representation of how the two pairs of switches can be adjusted is printed on the rear panel of the UP1 Reference. The UP1 Reference ships from the factory with a default setting of moving coil at 100 ohms with a gain of 70 dB.

In order to set the switches for your particular cartridge, you will need to have some knowledge of its specifications. Select Moving Magnet (MM) or Moving Coil (MC) according to the type of cartridge you have. In all instances the switch-tab for any selection will need to be up for 'on' and down for 'off'.

Gain setting

The gain control attenuates the overall gain of the phono card stage in such a way that when the gain is reduced, the noise levels seen at the output of the UP1 Reference are reduced proportionally. In this way, there is no penalty in selecting one gain setting over another. The exemplary signal, distortion and noise figures of the UP1 Reference are never compromised by changing gain settings.

Choose a gain setting that allows the volume control to operate within a range similar to that of your other source components. If phono is your only source component, then pick a gain setting that allows your preamp a fairly advanced gain setting at whatever you consider to be a comfortable listening level. In most cases, set gain switch up for MC cartridges and down for MM cartridges.

Moving Coil setup

For MC cartridges, DIP10 switch 1 is set to 'on' for 60dB of gain. For additional gain in 5dB steps, select ONLY one DIP4 switch to set the overall gain to either 65dB, 70db, 75dB or 80dB.

In MC mode, parallel capacitance is not recommended. Set DIP10 switches 9 and 10 'down' to remove the effects of any added capacitance.

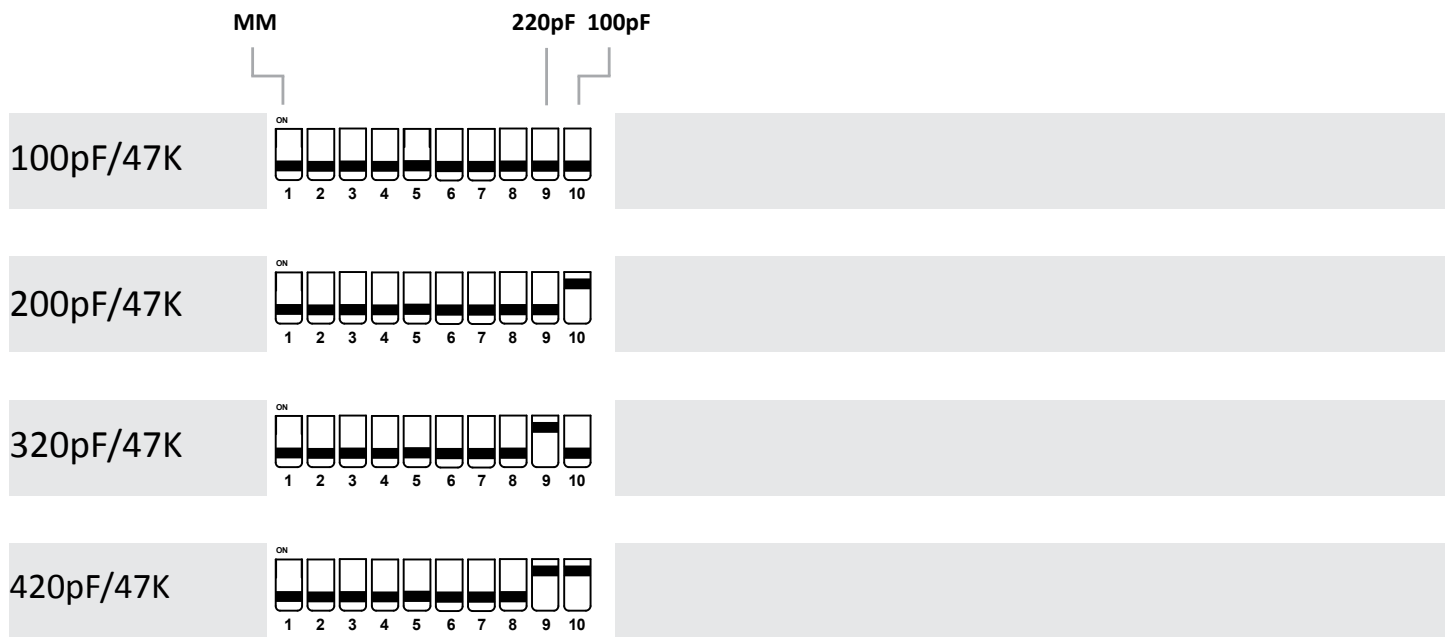
DIP10 impedance setting switches 2 to 8 should be set to your cartridge type as specified by the manufacturer. Custom impedance loads are available on request.

Moving Magnet setup

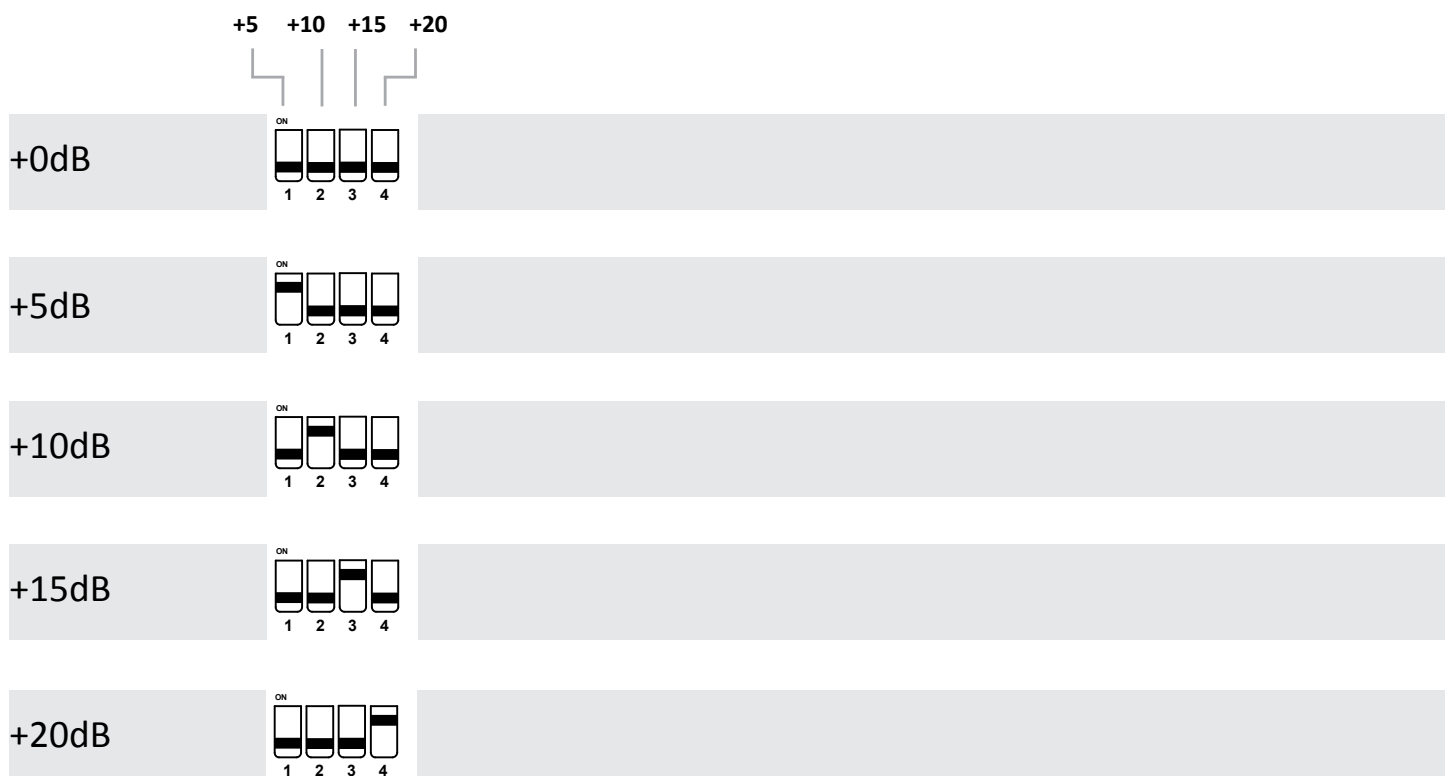
DIP10 impedance setting switches 2 to 8 are set 'down' to give an impedance of 47K Ohm.

DIP10 switch 1 is set 'down' for a MM gain of 40dB. For additional gain in 5dB steps, select ONLY one DIP4 switch to set the overall gain to either 45dB, 50db, 55dB or 60dB.

Moving Magnet Parallel Capacitance Settings (DIP10)



Additional Gain Setting Examples for MM and MC (DIP4)



Specifications

Input: RCA

Output: 1 pair Unbalanced RCA (single ended) , 1 pair Balanced XLR

Input impedance: 22 Ohm – 47 kOhm (selectable in 8 steps)

Input capacitance (without additional switched capacitance): 100 pF

Input sensitivity: 46uV – 4.6 mV

Channel Balance: 0.023db @ 1kHz

Interchannel Phase: 0.00 degrees @ 1kHz

Gain: 40 – 80 dB (2 VRMS output at 1 kHz)

THD+N: 0.005 % (1 kHz @ 2V output)

Signal to Noise Ratio

MM cartridge: >113 dB A-weighted, input shorted

MC cartridge: > 93 dB A-weighted, input shorted

RIAA linearity: +/- 0.2 dB (20 Hz – 20 kHz)

Frequency Response: 5Hz - 40kHz (+/-0.6dB)

Output impedance: 50 ohm

Nominal output: 2 VRMS

Maximum output: 10.5 VRMS

Power consumption: 3.8 W

Dimensions: Preamplifier W 210 x D 183 x H 95 mm, 3.1 kg

All technical specifications are subject to change without prior notification.

Warranty

OAD Ultrafidelity products are covered by a 3-Year Limited Warranty. This Limited Warranty initiates from the date of purchase, and is limited to the original purchaser. Outside Australia, the authorized importing retailer or distributor has accepted the responsibility for warranty of OAD Ultrafidelity products sold by them. The specific terms and remedies for fulfilment of the Limited Warranty may vary from country to country. Warranty service should normally be obtained from the importing retailer or distributor from whom the product was purchased. In the unlikely event that technical service beyond the ability of the importer is required, OAD Ultrafidelity will fulfil the terms and conditions of the Limited Warranty. Such product must be returned at the purchaser's expense to the OAD Ultrafidelity factory, along with a photocopy of the dated purchase receipt for the product, a written description of the problem(s) encountered, and any information necessary for return shipment. The cost of return shipment is the responsibility of the purchaser.

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