

A stylized illustration of a Thorens MM 002 tonearm and cartridge. The tonearm is a long, thin grey rod extending from the top left towards the center. The cartridge is a grey rectangular block with two small circular contacts on its side and a black cantilever extending from the bottom. The entire assembly is positioned over a grey vinyl record, which is partially visible on the left side of the frame. The background is a solid red color.

**THORENS<sup>®</sup>**

**MM 002**

User Manual

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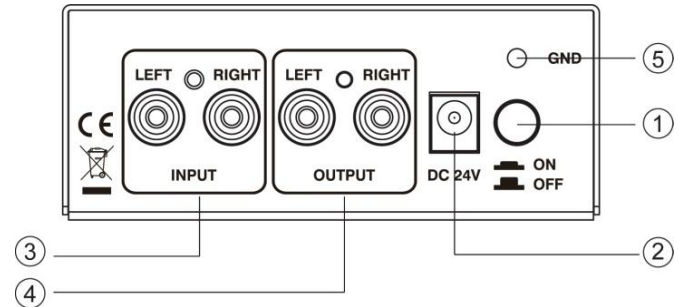
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# Rear Panel

Congratulations and thank you for purchasing the MM 002 moving-magnet phono preamplifier. Please read this manual carefully before operating your unit in order to guarantee the best performance.

Your local Thorens dealer or distribution partner will be pleased to assist if you have any further queries or need more information about this product:

[www.thorens.com/support](http://www.thorens.com/support)



- 1) Power switch
- 2) Power socket
- 3) Input sockets (from turntable)
- 4) Output sockets (to amplifier)
- 5) Binding post for tonearm earth shielding wire

# Installation and Operation

## 1. Connect your turntable to the MM 002

Plug the leads from your turntable's cartridge to the input sockets on the back of the MM 002: the Right channel (red) cable into the Right input and the Left channel (white) into the Left input. If your tonearm has a separate earth wire for shielding purposes please connect it to the earth binding post on the rear panel of the MM 002.

Your amplifier should be powered off or muted and the MM 002's power supply should not yet be connected.

## 2. Connect the MM 002 to your amplifier

Use high-quality RCA interconnect cables to connect the MM 002 to an auxiliary line-level input on your amplifier (Aux, Tape in, CD, Tuner, etc.).

Please ensure that the right channel output is connected to the right channel input on your amplifier, and the left channel output is connected to the left channel input on your amplifier.

If your amplifier is already equipped with a phono stage and you are upgrading your system with the MM 002, do not connect the output of the MM 002 to the phono input: this is meant to be connected only to a turntable's cartridge output, not to a line level output such as that of the MM 002.

# Installation and Operation

## 3. Connect the power adaptor

Make sure the power switch is in the OFF (outwards) position and the power adaptor is not connected to a mains socket.

Connect the Thorens power supply cable to the power socket on the rear panel.

After choosing and installing the correct snap-in mains plug for your country, connect the power adaptor to a live mains socket then press the power button on the rear panel to the ON (inwards) position.

**Always use the supplied mains power adaptor or an original Thorens spare part!**

If you prefer, the MM 002 can be left powered on thanks to its very low power consumption levels. If you plan to leave it unused for a prolonged period of time, we suggest disconnecting the power adaptor from the mains socket.

The MM 002 is now ready for use. Switch on or un-mute your amplifier and enjoy your favourite music!

# Technical Specifications

<b>Mode</b>	Moving Magnet (MM)
<b>Gain at 1 kHz</b>	40 dB
<b>Cartridge matching (input impedance)</b>	47 kOhms + 220 pF fixed
<b>Frequency response</b>	10 Hz - 50 kHz (-3 dB)
<b>RIAA curve accuracy</b>	±0.3 dB max.
<b>THD+N</b>	<0.015%
<b>Signal-to-noise-ratio</b>	>86 dB
<b>Crosstalk</b>	≥40 dB
<b>Input sensitivity</b>	3.14 mVrms for -10 dBV output (316 mVrms)
<b>Max. output voltage</b>	498 mVrms at 5 mVrms input (1 kHz)
<b>Output impedance</b>	47 Ohms
<b>Input connections</b>	1 pair of RCA sockets (left/right)
<b>Output connections</b>	1 pair of RCA sockets (left/right)
<b>Power supply</b>	24 V DC / 630 mA
<b>Power consumption</b>	3.3 W / 15 mA
<b>Weight</b>	292 g (not including power supply)
<b>Dimensions (W x H x D)</b>	100 x 45 x 93 mm

Technical specifications subject to change without notice.

# Safety instructions

## MM 002

### CAUTION

To reduce risk of electric shock, do not remove the cover (or back).  
No user-serviceable parts inside.

### WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



This product was tested and complies with all the requirements for the CE Mark.

**Compliant to 2002/95/EC (RoHS)**



#### **IMPORTANT: DISPOSAL OF WASTE EQUIPMENT BY USERS IN PRIVATE HOUSEHOLDS IN THE EUROPEAN UNION**

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

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