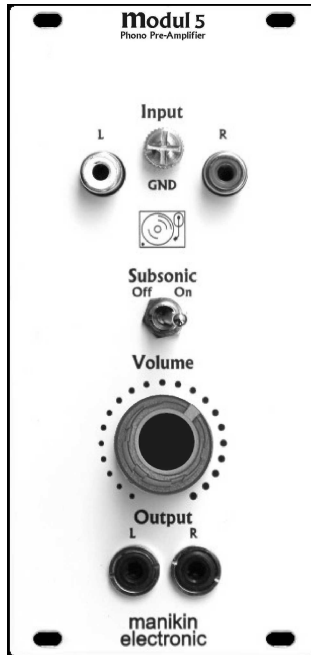


# Modul 5

Phono Pre-Amplifier



## User Manual



# Preface

Many thanks for purchasing the **modul 5**. You have chosen a turntable pre-amplifier designed especially for usage in the Eurorack. This product will give you the opportunity to connect your Turntable directly to your Eurorack.

To become familiar with this product's capabilities, we recommend you take the time to first study this manual.

Enjoy your **modul 5**

**Your Manikin team**

## **Note**

Manikin Electronic will not assume any responsibility for errors which may occur in this manual. The content of these instructions is subject to change without prior notice. When this manual was created, care was taken to exclude any mistakes and contradictions. Manikin Electronic will not accept any guarantees for this manual except those provided by commercial law.

No part of this user manual is allowed to be reproduced without the expressly written consent of the manufacturer.

**Manikin Electronic**  
**Lipaer Straße 5**  
**12203 Berlin**  
**Germany**

# Contents

<b>1. Introduction.....</b>	<b>1</b>
<b>2. Setting Up.....</b>	<b>2</b>
<b>3. Overview.....</b>	<b>4</b>
<b>4. User Elements and Connectors.....</b>	<b>4</b>
<b>5. Basic Operation .....</b>	<b>5</b>
<b>6. Technical Data.....</b>	<b>7</b>

# 1. Introduction

## 1.1 General safety instructions

Please read the safety instructions below very carefully. They comprise some basic rules for the use of electronic devices. Please read all the notes before you start using the device.

## 1.2 Suitable locations

- Only operate the device in closed rooms.
- Never operate the device in humid environments such as bathrooms, washing rooms or swimming pools.
- Do not operate the device in extremely dusty or dirty environments.
- Ensure unhindered air supply to all sides of the device. Do not place the device in close proximity to heat sources such as radiators.
- Do not expose the device to direct sunlight.
- Do not expose the unit to heavy vibration.

## 1.3 Mains connection

- Only use the supplied ribbon cable.
- Disconnect the mains connector from the socket before you mount the **modul 5**.

## 1.4 Operation

- Make sure that your **modul 5** is correctly mounted in your Eurorack.
- Ensure that no objects can get inside the device. Should this happen at all, switch the device off and disconnect it from the mains. Then contact a qualified technician.

## 1.5 Maintenance

- Do not try to open the device or detach the front panel. Any repair or maintenance should be done by qualified tech-personnel only. There are no parts inside the device that could be maintained by the user. You will also lose your right to claim warranty if you open the device.
- Only use a dry, smooth cloth or brush for cleaning the device. Do not use any alcohol, solvents or similar chemicals. They will damage the surfaces.

## Proper use

**This device is exclusively intended for creating audio signals. Any other use is not permitted and will obviate any warranty claims towards Manikin Electronic.**

# 2. Setting Up

## 2.1 Unpacking

When unpacking, please check if all parts are included. If something appears to be missing, please contact your local Manikin Dealer immediately.

The **modul 5** box contains:

- the **modul 5**
- a 16-pole ribbon cable for powering the **module 5** from your Eurorack Power Supply
- a ground-screw for grounding your turntable
- this manual
- 4 mounting screws for mounting the **modul 5** in the Eurorack

## 2.2 Installation

The **modul 5** was designed to be mounted in a Eurorack system. All necessary parts for mounting the **modul 5** into your Eurorack are part of the delivery.

Before you mount the **modul 5** you have to match the input impedance of the **modul 5** with the pickup of your turntable. Detailed information can be found in chapter 5 of this User manual.

### **How to hook up the modul 5:**

Make sure that your Eurorack is powered off and disconnected from the mains connector.

Connect the included power supply ribbon cable to the **modul 5**.

Connect the power supply ribbon cable with the base board of your Eurorack.

**Check very carefully that the coloured marking of the power supply ribbon cable has to align with the "-12V" printing on the bus board next to the pin header. Check also very carefully that it is pushed fully home, not at a slight angle and not vertically or horizontally displaced.**

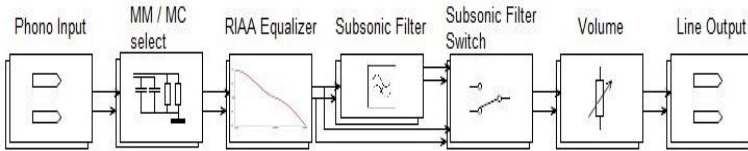
Mount the **modul 5** by using the supplied screws in the required place.

**Turn the mains power of your Eurorack on.**

### 3. Overview

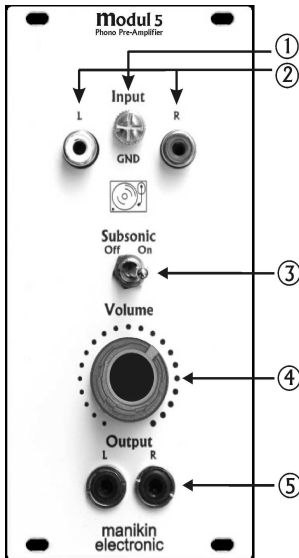
The **modul 5** is a turntable pre-amplifier for turntables using MM or MC pickups. Different pickups can be adjusted by two jumpers. You can select different capacitive and resistive adjustments. Low frequency signals like rumpling can be suppressed by an switchable subsonic filter.

The block diagram shows the signal flow:



### 4. User Elements and Connectors

The **modul 5** contains the following user elements.



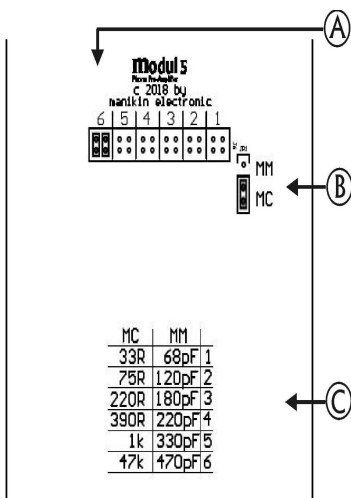
- 1 : Grounding Screw
- 2 : Turntable Input (2x RCA)
- 3 : Subsonic-Filter Toggle Switch (On/Off)
- 4 : Volume Potentiometer
- 5 : 3,5mm Phone Jack Output (L / R)



## 5. Basic Operation

### 5.1 Matching of the Input Impedance

Before mounting the **modul 5** into your Eurorack you have to match the **modul 5** to the pickup of your turntable.



If your pickup is a MM pickup place the Jumper (B) to the position marked MM, if your pickup is an MC pickup place the Jumper to the position marked MC (as shown).

In the second step you have to set the applicable impedance of your pickup. Therefore you have to place two Jumper (A). Please refer to the technical data sheet of your pickup concerning the impedance of your pickup.

All necessary information can also be found in the chart (C) printed on the rear side of the **modul 5**

In most cases your pickup will be a MC pickup that will match the pre-selected input type (MC) and impedance (47KOhm).

### 5.2 How to connect your Turntable

Connect your turntable to the RCA Jacks (2). Most turntables also offer an separate ground cable in addition to the pair of signal cables. The ground cable is used to ground your turntable correctly to prevent disruptive noises like 50Hz / 60Hz hum. Please connect the ground cable of your turntable with the grounding screw (1)

### **5.3 Subsonic Filter**

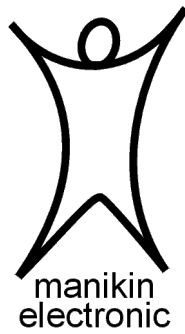
For suppressing low frequency signals like rumpling a 20Hz subsonic-filter can be switched into the signal path. To activate the subsonic-filter turn the Toggle Switch „Subsonic“ to „On“.

### **5.4 Volume control and Outputs**

Two 3,5mm phone jacks (5) are used as outputs. The output level can be adjusted via the Volume Potentiometer (4).

## 6. Technical Data

<b>Technology</b>	<b>: MM / MC Pick Up selectable Subsonic Filter</b>
<b>Inputs</b>	<b>: 2x RCA, Grounding Screw</b>
<b>Outputs</b>	<b>: 2x 3,5mm Phone Jacks (mono)</b>
<b>Subsonic Filter</b>	<b>: 20Hz (selectable)</b>
<b>Volume control</b>	<b>: Potentiometer</b>
<b>Power Supply</b>	<b>: +12V / 25mA -12V / 25mA</b>
<b>Dimensions (W/H/D)</b>	<b>: 12 HP / 3U / 40mm</b>



C 2018 by Manikin Electronic  
Alle Rechte vorbehalten  
[www.manikin-electronic.com](http://www.manikin-electronic.com)