BOX•DESIGN

BY PRO-JECT AUDIO SYSTEMS

INSTRUCTIONS FOR USE
Pro-Ject Phono Box RS

Dear music lover,

thank you for purchasing a Pro-Ject Audio Systems phono amplifier.
In order to achieve maximum performance and reliability you should study these instructions for use carefully.

⚠️ *Warning of a hazard for the user, the unit or possible misuse.*

☞ *Important notice.*

Safety instructions

⚠️ *AC outlet voltages vary from country to country. Before connecting to the mains, make sure that the voltage in your area meets the voltage requirements printed on the power supply.*
The power supply is used to disconnect the unit from the mains. Make sure that the power supply is easily accessible at all times. Never handle the device, the power supply while your hands are wet or damp. Avoid letting liquids enter the device or the power supply. Never place any item containing liquid, such as a flower vase on or near the device. Never spill any liquid on the device or the power supply. Never place any naked flame sources, such as lighted candles on or near the device. The product shall not be used in damp or wet locations, next to a bathtub, sink, swimming pool or any other similar conditions.

Front panel controls
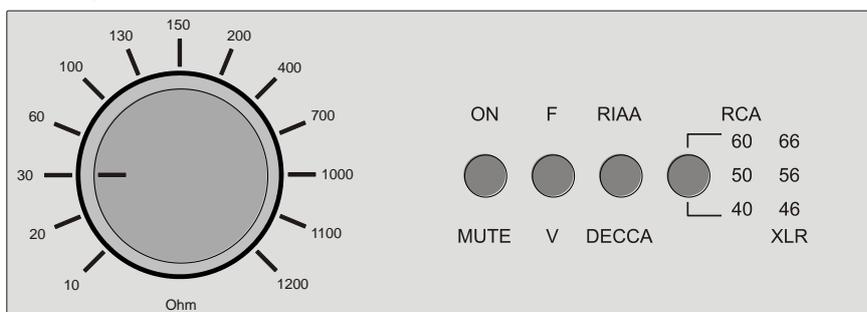
To switch on from standby or to standby

The rocker switch on the left hand side of the front panel turns the unit on or back into standby. The blue LED above the stand-by switch shows that the unit is switched on.

⚠️ *Caution! To avoid `Click´ or `Pop´ sounds, that could damage speakers or amplifiers, MUTE must be engaged, befiore switchging the unit on or into standby.*

Mute

ON/MUTE activates and deactivates mute

Selecting the de-emphasis curve

RIAA / DECCA selects the desired mode

Settings

Use the dip switches at the back of the unit and the rotary control at the front to set input capacitance and input impedance. Please set both channels equally.

⚠️ *To alter settings MUTE must be engaged. Input impedance setting (variable) can be done while listening.*

## Examples of typical settings

Ortofon 2M Red (MM)

gain 40dB,
input capacitance 200pF,
input impedance 47kohms.

The rocker switch **F/V** must be set to **F**.
The rocker switch on the right hand side sellects the input gain.
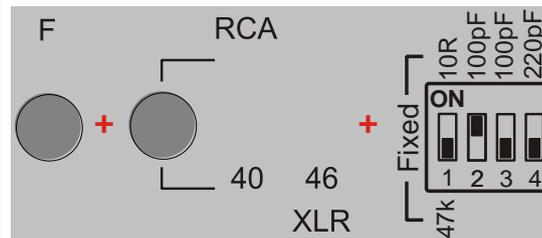
Ortofon X5-MC (High-Output MC)

gain 50dB,
input capacitance 420pF,
input impedance 47kohms.

The rocker switch **F/V** must be set to **F**.
The rocker switch on the right hand side sellects the input gain.
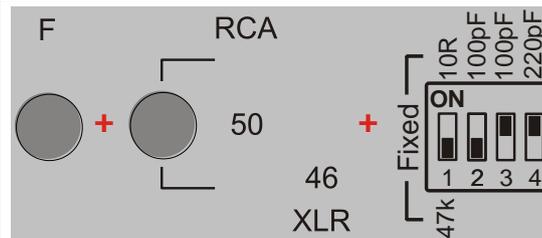
Ortofon Quintet Black (Low-Output MC).
* Input capacitance is irrelevant for low-output MC cartridges

gain 60dB,
input capacitance *,
impedance 7ohms.

The rocker switch **F/V** must be set to **V**.
The rocker switch on the right hand side sellects the input gain.
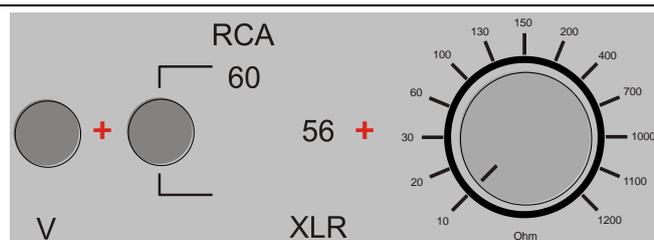
Alternative setting with with fixed input impedance. Setting for Low-Output MC cartridges with a recommended input impedance of ≤10 Ohm.

gain 60dB,
input capacitance *,
impedance 10ohms.

The rocker bswitch **F/V** must be set to **F**.
The rocker switch on the right hand side sellects the input gain.
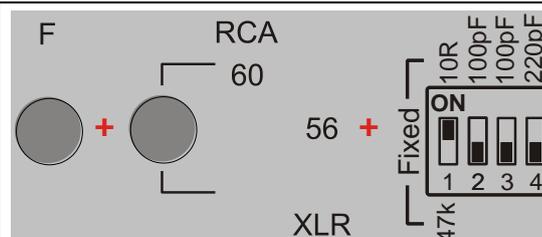
Gain

Gain for the RCA outputs (**RCA**) can be set to 60, 50 or 40dB. Gain will be 6dB higer, using the XLR outputs (**XLR**).

```
       RCA
    ┌── 60   66
   ⬤    50   56
    └── 40   46
          XLR
```
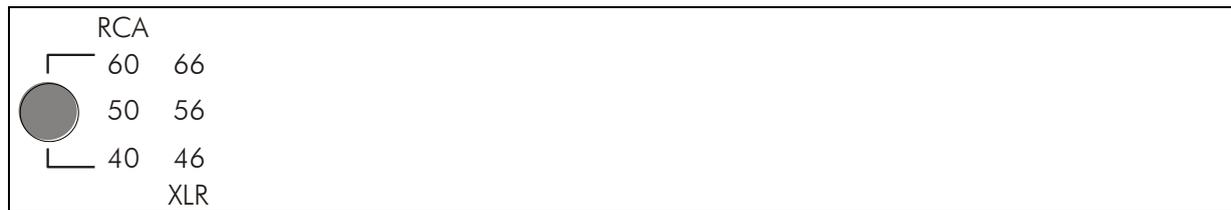
⚠️ *Do **not connect** RCA and XLR outputs **simultaneously**.*

Input impedance, variable – low-output MC cartridges

* Input capacitance is irrelevant for low-output MC cartridges

The rocker switch **F/V** must be set to **V**

```
         150
     130       200
  100               400
 60                    700
30                      1000
 20                    1100
    10            1200
          Ohm
```
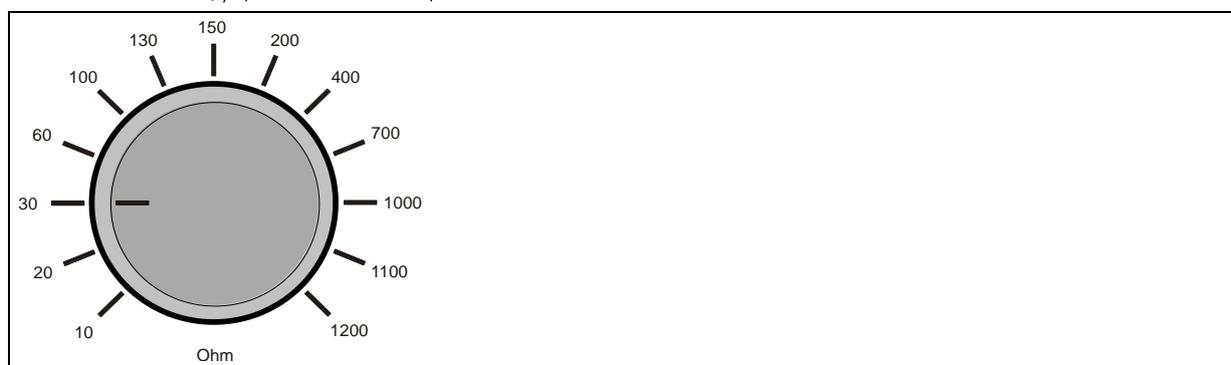
Input capacitance, variable – high-output MC and MM cartridges

The rocker switch **F/V** must be set to **F**

Fixed / 10R 100pF 100pF 220pF / 47k — ON 1 2 3 4 — 100pF ON 1 2 3 4 — 200pF ON 1 2 3 4 — 300pF ON 1 2 3 4 — 420pF ON 1 2 3 4 — 520pF ON 1 2 3 4
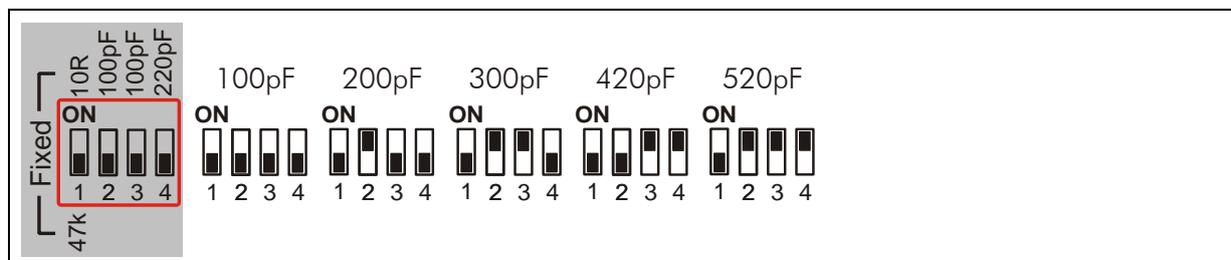
Input impedance, fixed – low-output MC cartridges

* Input capacitance is irrelevant for low-output MC cartridges

The rocker switch **F/V** must be set to **F**

Fixed / 10R 100pF 100pF 220pF / 47k — ON 1 2 3 4 — 10ohms ON 1 2 3 4

☞ *To find out which type your cartridge is, please consult the literature accompanying your cartridge. The literature for cartridges should also specify the correct input impedance (low-output MC cartridges) and the correct input capacitance (high-output MC and MM cartridges), into which the cartridge is designed to work. If in doubt please consult your dealer.*

Connectors
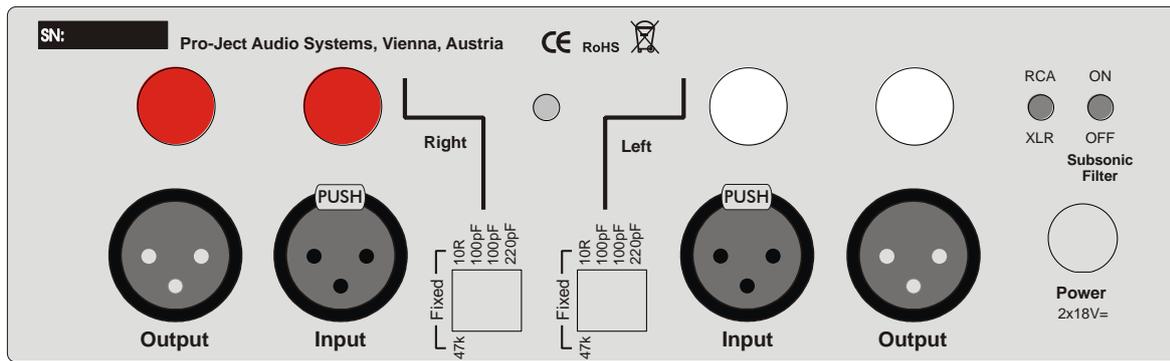
Make all connections whilst the phono amplifier is disconnected from the power supply.

Take care to connect the left and right channels correctly. The right channel is usually marked red, the left channel black or white.

*Do not connect the phono amplifiers output to a phono input (sometimes labelled **gram**, **disc** or **RIAA**) on the amplifier. Do not connect RCA and XLR outputs simultaneously.*

Wiring XLR sockets: 1 ground, 2 "hot" and 3 "cold".

Never use any other power supply than the one supplied with the unit.

Selecting input connectors

RCA / XLR select the input connectors to be used

Subsonic Filter

Subsonic Filter ON/OFF activates and deactivates the filter

Connecting the record player

Connect the tonearm signal lead to the **Input** of the phono amplifier. The earthing wire may be connected to the screw terminal if you encounter hum problems when using the record player.

Connection to the amplifier

Connect the **Output** of the phono amplifier to a line input (such as **AUX**, **CD**, **Tuner**, **Tape** or **Video**) on your amplifier.

Mains power connection

Connect the low voltage plug from the power supply to the **Power 2x18V** $^\forall$ socket of the phono amplifier before connecting the power supply to the mains.

Technical specifications Pro-Ject Phono Box RS

[A] Typical for low output MC cartridges, [B] typical for MM or high output MC cartridges
* Input capacitance is irrelevant for low-output MC cartridges

Input impedance, variable:	stepless 10ohms - 1.200ohms [A]
Input capacitance/impedance:, variable:	100pF, 200pF, 300pF, 420pF and 520pF */47kohms [B]
Input impedance, fixed:	10ohms [A]
Input gain (+ 6dB using XLR sockets):	40dB and 50dB [B] / 60dB [A]
Noise floor:	91dB (A weighted)
THD:	0,019%
De-emphasis curves accuracy:	20Hz - 20kHz / max. 0,3dB
Subsonic filter:	at 20Hz with 12dB/octave
Input:	1 pair RCA/phono sockets, 1 pair XLR sockets
Line-level output:	1 pair RCA/phono sockets, 1 pair XLR sockets.
	Wiring XLR sockets: 1 ground, 2 "hot" and 3 "cold"
Outboard power supply:	±18V/250mA DC, suitable for your country's mains supply
Power consumption:	150mA DC, <1W in standby
Dimensions W x H x D (D with sockets):	206 x 72 x 200 (210)mm
Weight:	2.000g without power supply

Potential incorrect use and fault conditions

No signal on one or both channels:
> No connection between player and phono amplifier or amplifier. This could be due to a faulty plug, broken wire or solder joint or simply loose plug/socket connection.

Strong hum:
> No earth connection from cartridge or arm, or arm cable to phono amplifier, or earth loop.

Output too quiet or too loud, or distorted:
> Input gain incorrectly set - input overloading or insufficiently amplified.

Service

Should you encounter a problem which you are not able to alleviate or identify despite the above information, please contact your dealer for further advice. Only when the problem cannot be resolved there should the unit be sent to the responsible distributor in your country.

Warranty

The manufacturer accepts no responsibility for damage caused by not adhering to these instructions for use. Modification or change to any part of the product by unauthorized persons release the manufacturer from any liability over and above the lawful rights of the customer.

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