



BY PRO-JECT AUDIO SYSTEMS

INSTRUCTIONS FOR USE Pro-Ject Phono Box DS2

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

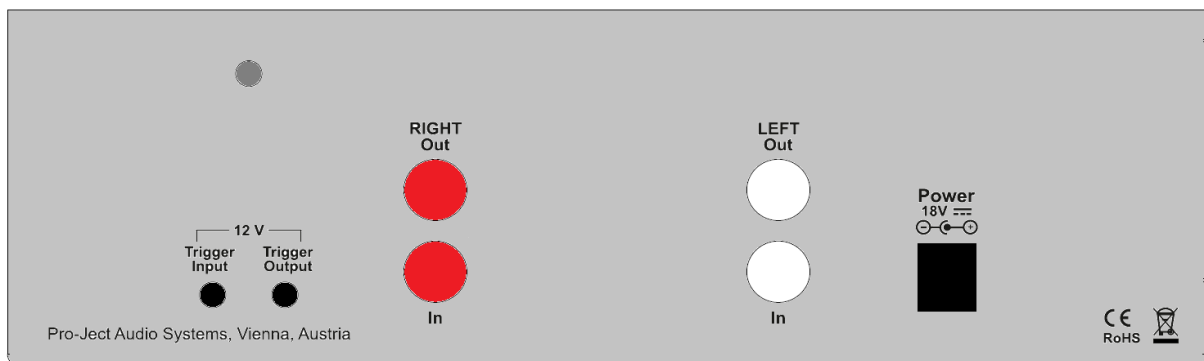
AC outlet voltages vary from country to country. Before connecting to the mains, make sure that the voltage in your area meets the voltage requirements printed on the power supply.

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.

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.

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

Connecting the record player

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

Connection to the amplifier

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

Mains power connection and methods to switch the unit on and off

Connect the low voltage plug from the power supply to the **Power 18V** socket of the preamplifier **before** connecting the power supply to the mains. The unit can be switched on and off by using 2 different methods which are equal in priorities.

1. Using front pushbutton to switch on or into standby

The pushbutton on the front panel of the unit alternately turns the power on or returns it to standby mode. The blue LED on the front panel shows that the unit is powered on. If a trigger signal is present the unit can't be switched off by the pushbutton.

2. Remote power on - triggers

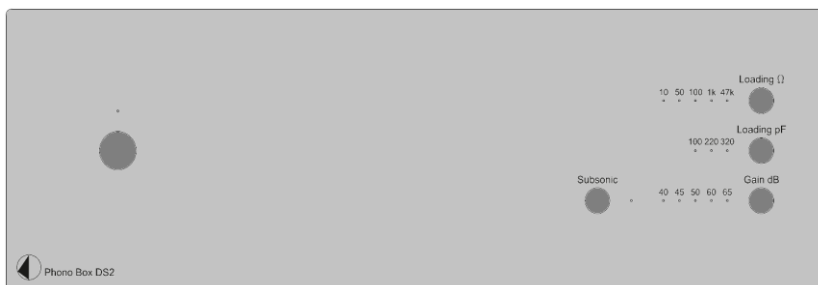
The unit can be switched on via other Box Design components when a 12V trigger voltage is present at the 2.5mm socket marked **Trigger Input**. Special power-on cables (polarity $\ominus \oplus$) in diverse lengths are available as accessories. The remote power-on signal can be relayed to further units via the **Trigger Output** socket. When the 12V trigger signal is switched off, the unit will also switch off.



Trigger cables may only be plugged into the sockets when the unit is disconnected from the power supply and from the mains. Failure to do so may result in damage of the unit.

Settings

The three push buttons on the left-hand side are used to set input impedance, input capacitance and input gain. 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.



Input impedance / ohms

Input capacitance / pF

Input gain / dB



pF - all LEDs off = 47pF.

LEDs pF 100, 220 and 320 - readout always + 47pF

After disconnecting the unit from the mains, all settings will be deleted.

Examples of typical settings

Ortofon Rondo Red (Low-Output MC): Input impedance 10ohms, Input capacitance - Any setting. Input capacitance is irrelevant for low-output MC cartridges pF, Input gain 60dB

Ortofon 2M Red (MM): Input impedance 47kohms, Input capacitance 147pF, Input gain 40dB

Ortofon X5-MC (High-Output MC): Input impedance 47kohms, Input capacitance 367pF, Input gain 40dB

Subsonic

Turn on and off subsonic filter.

Technical specifications Pro-Ject Phono Box DS2

^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:	10, 50, 100, 1k, 47kohms ^A
Input capacitance/impedance:	47pF, 147pF, 267pF and 367pF */47kohms ^B
Input gain:	40, 45 ^B / 50, 60 and 65dB ^A
Noise floor:	80dB (A weighted) at 40dB input gain
THD:	<0,02%
RIAA-equalisation curve accuracy:	20Hz - 20kHz / max. 0,3dB
Subsonic filter:	at 20Hz with 12dB/octave
Input:	1 pair RCA/phono sockets
Line-level output:	1 pair RCA/phono sockets
Outboard power supply:	18V/500mA DC, suitable for your country's mains supply
Power consumption:	100mA DC, <1W in standby
Dimensions W x H x D / weight:	aluminium 206 x 71 x 194 / 1320g wood 240 x 72 x 194 / 1770g

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, please contact your dealer for further advice. Only if the problem cannot be resolved there, the unit should 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 changes 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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