



BY PRO-JECT AUDIO SYSTEMS

INSTRUCTIONS FOR USE Pro-Ject Phono Box DS

Dear music lover,

thank you for purchasing a PRO-JECT AUDIO 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

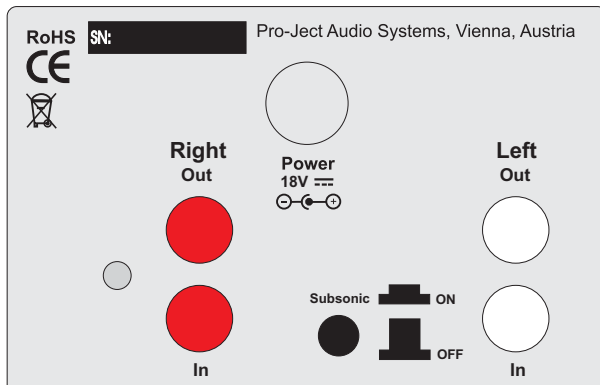
AC outlet voltages vary from country to country. Before connecting to the mains, make sure that the voltage in your area meets the voltage requirements printed on the power supply.

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

Mains power connection

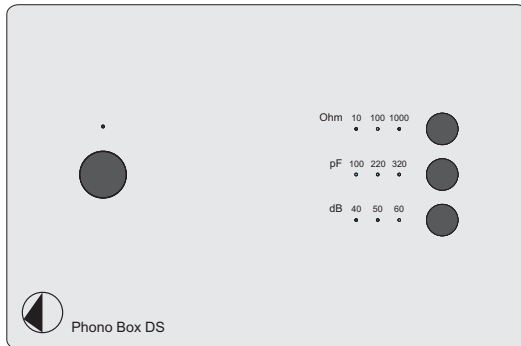
Connect the low voltage plug from the power supply to the **Power 18V** socket of the phono amplifier before connecting the power supply to the mains.

Stand-By

The button on the left hand side of the front panel alternately turns the power on or returns it to standby mode. The blue LED above the stand-by push button shows that the unit is switched on.

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



Ohm - all LEDs off = 47kohms.

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 2M Red (MM)

Input impedance 47kohms	Ohm 10 100 1000	all LEDs off = 47pF
Input capacitance 147pF	pF 100 220 320	readout + 47pF
Input gain 40dB	dB 40 50 60	

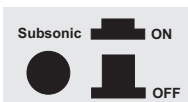
Ortofon X5-MC (High-Output MC)

Input impedance 47kohms	Ohm 10 100 1000	all LEDs off = 47pF
Input capacitance 367pF	pF 100 220 320	readout + 47pF
Input gain 40dB	dB 40 50 60	

Ortofon Rondo Red (Low-Output MC)

Input impedance 10ohms	Ohm 10 100 1000	* Any setting. Input capacitance is irrelevant for low-output MC cartridges
Input capacitance (pF) *	pF 100 220 320	
Input gain 60dB	dB 40 50 60	

Subsonic filter



A switch at the back of the phono amplifier activates and deactivates the subsonic filter.

Technical specifications Pro-Ject Phono Box DS

^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:	10ohms, 100ohms, 1kohm ^A
Input capacitance/impedance:	47pF, 147pF, 267pF and 367pF */47kohms ^B
Input gain:	40 ^B / 50 and 60dB ^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 (D with sockets):	103 x 72 x 144 (156)mm
Weight:	1.100g 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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