



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.

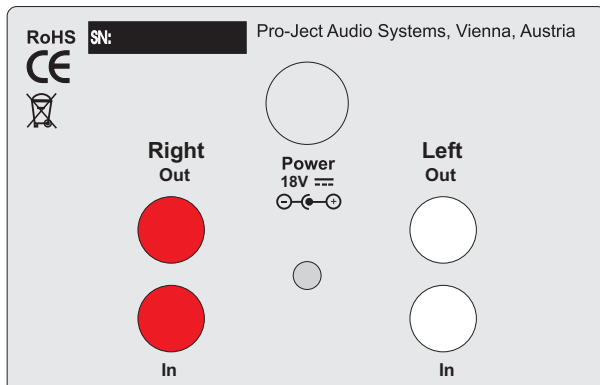
The power supply is used to disconnect the unit from the mains. Make sure that the power supply is easily accessible at all times. Never handle the device, the power supply while your hands are wet or damp.



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.

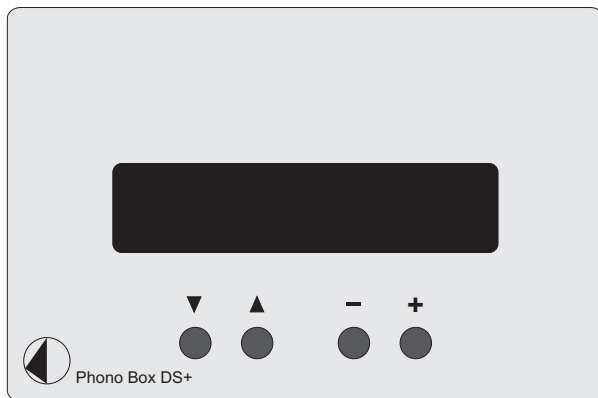
## Connection to the amplifier

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.

## Front panel controls



### To switch on from standby or to standby

▼ turns the unit on or back into standby (press and hold to switch into standby mode). The display shows **STANDBY** when the unit is in standby.

After power on, the current settings are displayed for approx. ten seconds. Pressing ▼ again, will display the settings again.

### Settings, subsonic filter

The four push buttons are used to set:

|                           |  |
|---------------------------|--|
| Input impedance / ohms    | ◆ Input impedance : 10    100    1k <b>47k</b>   |
| Input capacitance / pF    | In capacitance : <b>47p</b> 147p    267p    367p |
| Input gain / dB           | Input gain : 40dB    45dB <b>60dB</b> 65dB       |
| Subsonic-Filters - on/off | Subsonic filter : <b>ON</b> OFF                  |

While the current settings are displayed, + calls up the setup menu. ▲ and ▼ move the cursor up and down. - and + select a menu item. A long press on + stores the settings.

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.



*The memory retains its contents through a power off/on cycle and a power failure.*

### Examples of typical settings

|                                   |   |   |
|-----------------------------------|---|---|
| Ortofon 2M Red (MM)               | Input impedance : 47k<br>Input capacitance: 147p<br>Input gain : 40dB |   |
| Ortofon X5-MC (high-output MC)    | Input impedance : 47k<br>Input capacitance: 367p<br>Input gain : 45dB |   |
| Ortofon Rondo Red (low-output MC) | Input impedance : 10<br>Input capacitance: *<br>Input gain : 60dB     | * Any setting.<br>Input capacitance is irrelevant<br>for low-output MC cartridges |

## Technical specifications Pro-Ject Phono Box DS+

<sup>A</sup> Typical for low output MC cartridges, <sup>B</sup> typical for MM or high output MC cartridges

\* Input capacitance is irrelevant for low-output MC cartridges

|  |  |
|--|--|
| Input impedance:                       | 10ohms, 100ohms, 1kohm <sup>A</sup>  |
| Input capacitance/impedance:           | 47pF, 147pF, 267pF and 367pF */47kohms <sup>B</sup><br>Together with other input impedance settings without any influence! |
| Input gain:                            | 40 and 45dB <sup>B</sup> / 60 and 65dB <sup>A</sup>  |
| Noise floor:                           | 90dB (A weighted) at 40dB input gain   |
| THD:                                   | <0,05%   |
| 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:                     | 200mA DC, <1W in standby   |
| Dimensions W x H x D (D with sockets): | 103 x 72 x 144 (156)mm   |
| Weight:                                | 1.025g 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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