



BY PRO-JECT AUDIO SYSTEMS

# INSTRUCTIONS FOR USE Pro-Ject Tube Box DS2

Dear music lover,

Thank you for purchasing a tube phono preamplifier from Pro-Ject Audio Systems.

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**

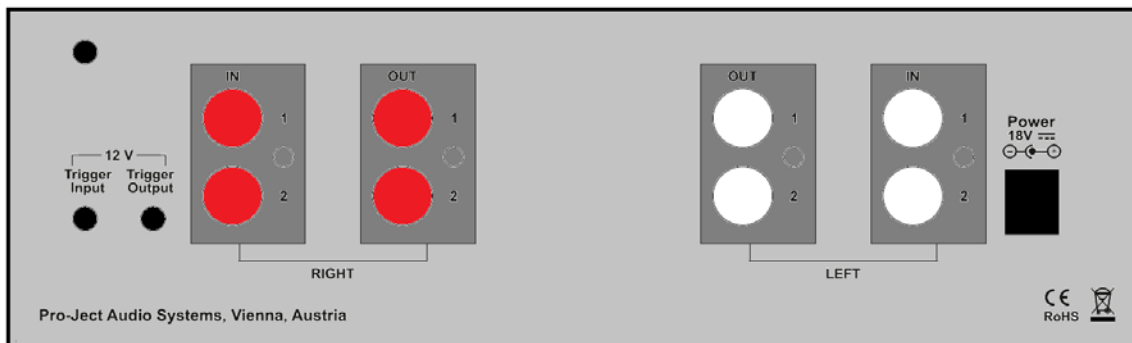
## Safety instructions

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 connect/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.



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 **In1** or **In2** 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 **Out1** or **Out2** of the phono amplifier to a line input (such as **AUX**, **CD**, **Tuner**, **Tape** or **Video**) on your amplifier.

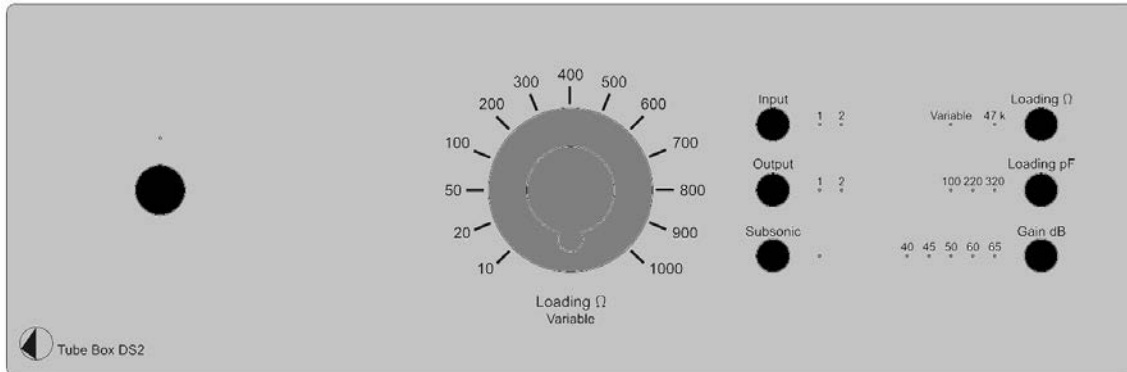
## Mains power connection

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

## Trigger connection

A unit is equipped with trigger out and trigger in socket (jack 2.5mm, 12V) to turn on/off a Pro-Ject product with trigger sockets.

## Controls



## To switch on from standby or to standby

The 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.

## Settings

Use the buttons and the rotary control at the front to control the unit.

## Input and Output

Tube Box DS2 has two separate inputs and outputs. The buttons **Input** and **Output** selects between inputs and outputs.

## Subsonic

Turn on and off subsonic filter.

## Gain dB

Gain for the outputs can be set from 40dB to 65dB in steps of 5dB.

## Input impedance, variable – low-output MC cartridges

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

The button **Loading ohm** must be set to **Variable**. Use the rotary controller to set input impedance to desired value (10Ω-1000Ω)

## Input capacitance, variable – high-output MC and MM cartridges

The button **Loading ohm** must be set to 47k, The button Loading pF set the capacitance to 100pF, 220pF or 320pF



*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.*

## Examples of typical settings

Ortofon 2M Red (MM)	input gain 40dB, input capacitance 100pF, input impedance 47kohms
Ortofon X5-MC (High-Output MC)	input gain 50dB, input capacitance 320pF, input impedance 47kohms
Ortofon Rondo Red (Low-Output MC)	input gain 60dB, input capacitance is irrelevant, input impedance 10ohms.

## 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.

## Technical specifications Pro-Ject Tube Box DS2

Tubes:	2 x ECC83 (12AX 7A)
Input impedance :	variable 10-1000 ohms/ 47.000 ohms (47kΩ)
Input capacitance :	100pF, 220pF, 320pF
Gain:	40, 45, 50, 60 and 65 dB (switchable)
Output voltage typically:	500 mV/1 kHz at 5mV/1 kHz (at 40dB)
Noise floor:	88 dB (A weighted, at 40dB gain)
THD:	<0,04 %
RIAA-equalisation curve accuracy:	20 Hz – 20 kHz / +0,2dB / -0,2dB
Input:	2 pairs RCA/phono sockets
Line-level output:	2 pairs RCA/phono sockets
Outboard power supply:	18 V/1000 mA DC
Power consumption:	490mA DC, <0,5W in standby
Dimension (W x D x H)	206mm x 227mm x 91mm (aluminium) 240mm x 227mm x 93mm (wood)
Trigger output/input:	12V (2,5mm jack)
Weight (without power supply):	1650g aluminium 1930g wood

## 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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