



BY PRO-JECT AUDIO SYSTEMS

INSTRUCTIONS FOR USE Pro-Ject Tube 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.

Subsonic Filter



Settings

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

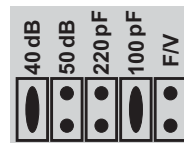


To alter settings the unit must be disconnected from the power supply and the amplifier.

Examples of typical settings

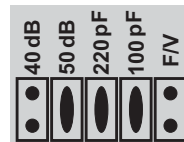
Ortofon 2M Red (MM)

input gain 40dB, input capacitance 147pF, input impedance 47kohms



Ortofon X5-MC (High-Output MC)

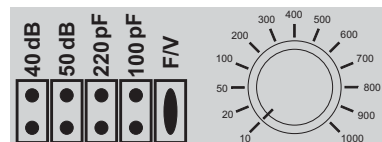
input gain 50dB, input capacitance 367pF, input impedance 47kohms



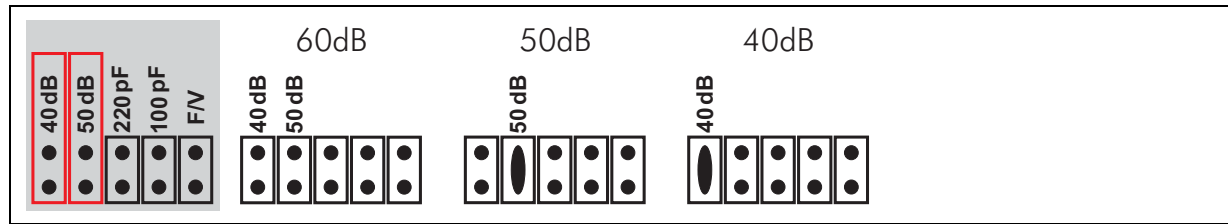
Ortofon Rondo Red (Low-Output MC)

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

* Input capacitance is irrelevant for low-output MC cartridges



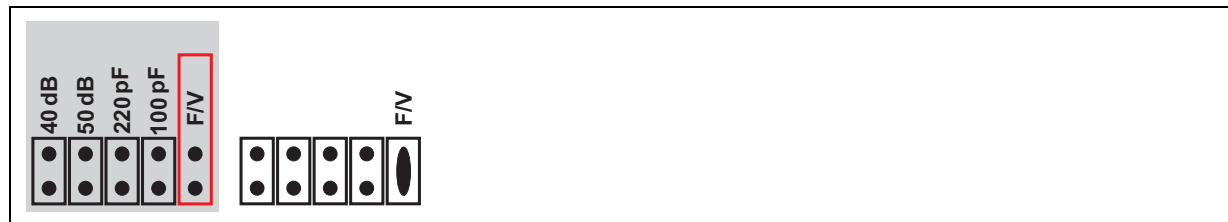
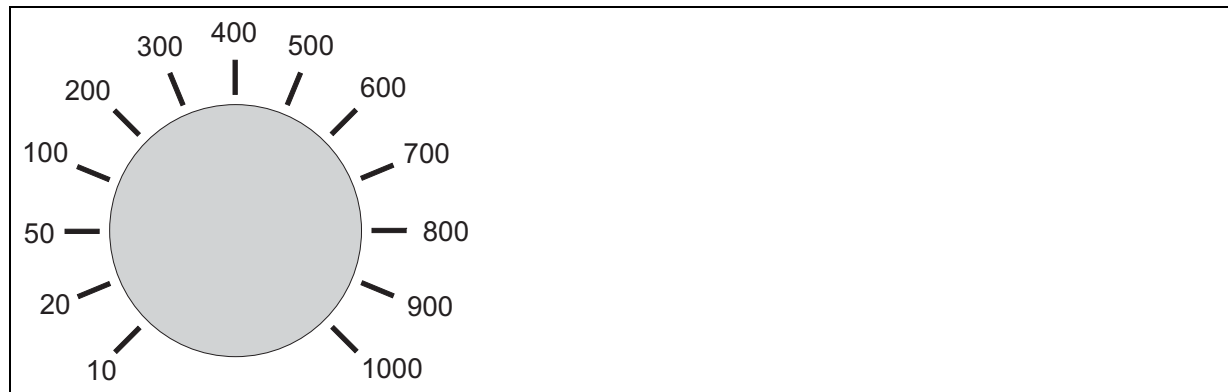
Input gain



Input impedance, variable – low-output MC cartridges

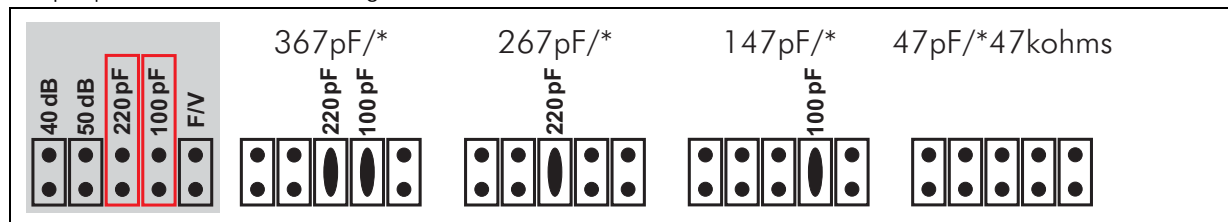
* Input capacitance is irrelevant for low-output MC cartridges

Jumper on F/V must be inserted – see drawing below



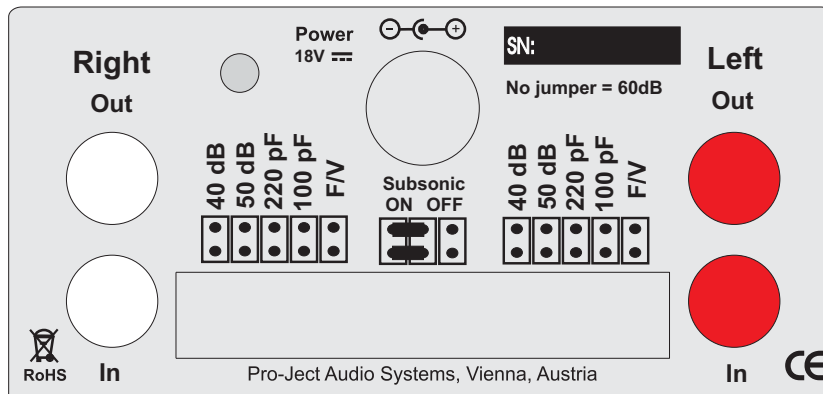
Input capacitance, variable – high-output MC and MM cartridges

No jumper on F/V – see drawing below



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.



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.

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.

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 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

Tubes:	2 x ECC83 (12AX 7A)
Input impedance, variable:	stepless 10ohms - 1.000ohms ^A
Input capacitance/impedance:	47pF, 147pF, 267pF and 367pF */47kohms ^B
Input gain:	40dB and 50dB ^B / 60dB ^A
Noise floor:	93dB (A weighted)
THD:	<0.1%
De-emphasis curves accuracy:	20Hz - 20kHz / max. 0,5dB
Subsonic filter:	at 20Hz with 18dB/octave
Input:	1 pair RCA/phono sockets
Line-level output:	1 pair RCA/phono sockets
Outboard power supply:	18V/1.000mA DC, suitable for your country's mains supply
Power consumption:	490mA 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

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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