

***TLP AUDIO***

***TPS 20 PHONO PREAMPLIFIER***

**OPERATING INSTRUCTIONS**

## Introduction

Thank you for your purchase of TLP Audio's TPS 20 phono preamplifier. This component has been carefully designed and manufactured to provide many years of listening enjoyment.

Please read through this manual in its entirety prior to installing and operating your phono preamplifier. Should you have any questions, please contact your local dealer or TLP Audio:

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## Unpacking Your TLP Audio TPS 20

Upon opening the cartons, you should find the following items:

TPS 20 phono preamplifier

(If any of the above items are missing, please contact your local dealer. We suggest that you retain the original packing material for protection of the units during future shipping and handling.)

## Setting Up

Place the phono preamplifier on a strong sturdy shelf.

Refer to Figure 1.

(When making line level connections, please refer to figure 1 and the connection diagram on the back panel of the phono preamplifier.)

XConnect the outputs from the phono cartridge to the RCA input jacks on the phono preamplifier.

Moving coil cartridge to MC inputs, Moving magnet cartridge to MM inputs. Select MC and MM input by the selector switch on the rear panel. (refer to Figure 1)

XConnect the RCA and/or optional XLR output jacks of the phono preamplifier to the line inputs of your preamp.

XConnect the turntable chassis ground wire to the ground post of the phono preamplifier.

**NOTE: The output level of the phono cartridge should be between 0.05 mV and 1.5mV for MC and 0.9mV and 35 mV for MM. Distortion or insufficient gain may result if the output from the phono cartridge is outside this range.**

The phono amplifier is "on" when it is connected to the AC outlet.

**Canada/USA models: use only the factory-supplied AC power cord with a grounded (3-prong) wall outlet. Other countries: use properly rated AC power cord with a grounded wall outlet.**

**Plug in the TLP Audio TPS 20 five seconds BEFORE turning on you preamplifier(s) or amplifier(s); otherwise, "warm up noise" may cause severe damage to the speakers or other components.**

## Fine Tuning the TPS 20

**Disconnect the TPS 20 from the AC outlet and from all other components.** Failure to do so prior to opening the cover of the unit may result in serious personal or property damage.

Carefully use a hex key to remove the screws which secure the top cover of the unit. Lift the cover off. Turn the unit so that the front panel is facing yourself.

Refer to figure 2 for details.

The input impedance of the phono preamplifier is set by using internal jumpers and custom resistors. The TPS 20 is equipped with 100R, 220R, 470R and 1K0 impedance settings. Use the jumper beside the impedance marking to choose the proper setting for the cartridge. Custom impedances can be made by contacting the factory and installing a resistor at the inputs.

Gain setting is done by using jumpers beside where the gain setting is marked. Available settings are:

Overall MC gain (db)	number marked on PC board (db)
61	20
67	26
75	34
81	40
87	46

All of the above gain settings are referenced to balanced outputs. Minus 6dB for single-ended outputs.

MC and MM inputs setting is flipping a toggle switch on the rear panel mark MM/MC.

A very precise rumble (high pass) filter is built into the TPS 20. It can be switched in and out by using a jumper on the PCB. Refer to figure 2 and PCB marking for details.

**Disconnect the TPS 20 from the AC outlet and from all other components.** Failure to do so prior to opening the cover of the unit may result in serious personal or property damage.

**NOTE: Replace the top cover and all screws BEFORE connecting the unit to other components and to the AC outlet.**

Refer to the instructions under Setting Up.

### **Maintenance**

Regular maintenance will ensure and prolong the life of the TPS 20 and keep it operating and looking like new.

We recommended dusting powder coated steel and Plexiglas with a dry cloth regularly. A slightly moistened cloth may be used in the case of stubborn stains & fingerprints.

**ALWAYS** disconnect the power cord from the wall outlet before cleaning and ensure that no fluid enters the unit. Before re-connecting the power, be certain that the TPS 20 had been allowed to dry completely.

**WARNING!!! There are NO user serviceable parts inside this unit. Refer servicing to qualified personnel.**

### **Limited Warranty**

The TPS 20 is covered by a non-transferable limited 3 year warranty on parts and labor. Warranty start date is based on the date-of-purchase. Please retain the original purchase receipt, or email, for proof of date-of- purchase.

The warranty is voided if the TPS 20 has been subjected to misuse, negligence, damaged by accident or has been in any way tampered with, serviced by unauthorized personnel or modified without the written authorization of TLP Audio.

\*An example of misuse would include connecting the TPS 20 to defective components. This includes, a preamp and other components that have DC offset and disconnecting or connecting any inputs or outputs of the TPS 20 without turning the unit off and waiting for a minimum of five minutes.

### **Disclaimer of Consequential Damage**

TLP Audio disclaims, to the extent that the law permits, any responsibility for the loss of time or use of its products, transportation costs, or any other indirect, incidental or consequential damage or any inconvenience related to its products.

In the event that service is required for your TLP Audio product please contact your dealer or TLP Audio. before shipping your unit(s) back to TLP Audio. Unauthorized returns will not be accepted.