Warranty: This entitles you to have the music hall mini plus repaired free of charge, at our discretion, for one year after the date of purchase, provided the unit was purchased from an authorized dealer. Your original sales receipt is proof of purchase date. Music Hall takes no responsibility for defects arising from accident, misuse, abuse, wear and tear, neglect or unauthorized repair and/or adjustment. Music Hall cannot accept responsibility for damage or loss that occurs during transit. The warranty does not cover transportation costs.

Claims under warranty: The mini plus should be packed in the original packing and returned to the dealer from whom it was purchased, or, upon authorization, to a Music Hall Service Center. It should be sent by a reputable carrier, carriage prepaid. Since no responsibility will be accepted for a unit in transit to the dealer, customer, or authorized service agent, customers are advised to insure against loss, damage, or theft.

For further information contact:

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music hall mini plus





SPECIFICATIONS:

I/ O Connectors: RCA. 1/8" TRS Stereo

Gain: 41.51 dB gain @ 1kHz at the "0" setting

31.64 dB of gain at the "-10" setting 45.66 dB of gain at the "+4" setting

Input Impedance: 47k ohms

Output Impedance: 32 ohms Headphone, 470 ohms RCA

Frequency Response: 3Hz to 36kHz

Equalization: RIAA +/- 1 dB, 14Hz to 23kHz

Rumble Filter: 20Hz

THD: .005% @ 1KHz S/N Ratio: .94 dB unweighted

PWR: 15 VDC

Size: 5.5"w x 3.5"d x 1.25"h

Weight: .8 lbs

Indicator: 1 Power LED

Thank you for purchasing the mini plus. We spent a considerable amount of time designing and developing the mini plus. Hundreds of hours listening and improving the design. We hope you enjoy using the mini plus, and that it makes listening to your vinyl collection rewarding. We sincerely appreciate the opportunity to build a product for you and participate in your love of quality music and sound. We love what we do and we're happy to help.

The music hall mini plus is a phonograph preamplifier with RIAA EQ. RIAA equalization is a specification for the recording and playback of phonograph records, established by the Recording Industry Association of America (RIAA).

The RIAA equalization curve was intended to operate as the global industry standard for records since 1954. However, it is almost impossible to say when the change actually took place.

RIAA equalization is a form of pre-emphasis on recording and de-emphasis on playback. A recording is made with the low frequencies reduced and the high frequencies boosted, and on playback the opposite occurs. The net result is a flat frequency response, but with attenuation of high frequency noise such as hiss and clicks that arise from the recording medium. Reducing the low frequencies also limits the excursions the cutter needs to make when cutting a groove. Groove width is thus reduced, allowing more grooves to fit into a given surface area, permitting longer recording times. This also reduces physical stresses on the stylus which might otherwise cause distortion or groove damage during playback.

A potential drawback of the system is that rumble from the playback turntable's drive mechanism is amplified by the low frequency boost that occurs on playback. Players must therefore be designed to limit rumble, more so than if RIAA equalization did not occur. Using a rumble filter to filter out the subsonic frequencies may help mitigate the noise from the turntable.

Connecting the mini plus:

input - connect to your turntable output - connect to your pre-amplifier, integrated amp, or receiver ground - connect to the ground wire from your turntable

Grounding thoughts: The ground post is where things can get complicated. Ground hums have often plagued the turntable. We recommend using the ground post to connect to your turntable's ground connection. However, if your turntable has no ground post on it, then don't use the ground connection. If you experience hum with the ground connected to the mini plus and your turntable, try disconnecting the ground on both.

Ground loops are a common occurrence with audio. The more equipment you use, the higher likelihood you will have a ground loop. The term "loop" refers to your ground generating unwanted noise from traveling back and forth in a loop. The turntable is usually the most likely component to have a ground issue. Another thing you can try, if you have a ground loop, is connecting the turntable ground to the RCA jack's ground. One thing to keep in mind is that ground loops can be anywhere in a system, so try and isolate the components that are the issue before you spend a lot of time looking at just one component.



Rumble filter: AKA "subsonic filter" cuts very low frequencies (below 20 Hz). The purpose of a filter like this is to get rid of annoying frequencies that disrupt the turntable's sound quality. A good rumble/subsonic filter should be inaudible, meaning you can not hear when it is on or off in the program material you are listening to. What it will do is help with excessive very low frequency interruptions from the turntable to the preamp.

Cartridge load capacitance: The mini plus has three settings: 120 pF, 220 pF and 330 pF. Set the switch in the position you feel sounds best to you. The difference might be very slight, but it is there. Most cartridges come with a capacitance load recommendation in the spec sheet for the cartridge. For example the Ortofon 2M series asks for a loading of 150pF to 300pF. Most Audio Technica cartridges state 100pF to 200pF for loading. The mini plus has been tested with multiple turntables and multiple cartridges. We have found it best to use your ears to set the loading. You can set the loading switch to any setting 120, 220 or 330 with any MM cartridge and no damage will be done to the mini plus or your cartridge. If you can not hear a difference we would suggest that you do as the cartridge manufacturer suggests, and set the loading switch closest to their recommendation for the cartridge you are using.

Trim - Gain: Control to attenuate the signal level up or down. It is not a volume control, meaning that signal will still be present even when the level is turned to the lowest point (in this case -10dB as labeled). If at half way up you are at 0 dB output level then all the way up you will have +4dB more gain, and all the way down you will be at -10dB down from a reference of the middle 0 dB. Most users will be best served to set the control at the middle or 0 setting to get the best outcome. This is not always the case. In some situations you might need more gain, like when playing a quiet record or lower output moving-magnet cartridge. In the opposite situation you might need less gain from a hot or loud record, or if you have a high output cartridge. Newer cartridges tend to have a higher output level than older cartridges. For instance, the popular Ortofon 2M series of cartridges have 5 - 6mV of output. This is much higher than cartridges of old (3 - 5mV). When using a 6mV output cartridge, you might need to turn the trim gain control to just below the half or 0 setting. Many factors go into setting the proper level. We recommend to start at the middle, 0 setting, and adjust from that point to your personal preference.