

Hafler®

PH60

Phono Stage



User Guide

Made in Canada 🍁

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PH60 PHONO STAGE

USER GUIDE

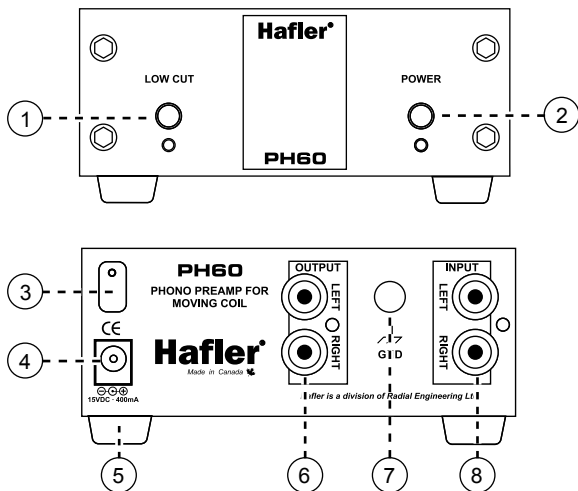
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Thank you for purchasing the Hafler PH60 phono stage, one of the best sounding yet reasonably priced preamps ever made. The PH60 will boost the signal from your turntable to a manageable level and introduce the RIAA curve that is needed to properly play back a typical long play album.

Before making any connections, make sure your audio system is turned off. This will help avoid loud turn-on and connection transients that can damage more sensitive components such as tweeters.

The Hafler PH60 is designed to boost the ultra-low level signal from a turntable equipped with a moving coil cartridge so that it can be played using a typical -10dB line input such as an AUX IN or CD IN on a receiver or preamplifier. If your turntable is equipped with a dynamic cartridge, please consider purchasing the PH50 as this phono preamp is specifically designed for these types of cartridges.

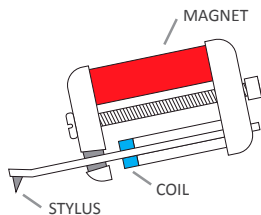
FEATURES



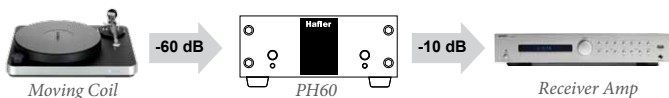
1. **LOW CUT:** Activates the high-pass filter to control low frequencies
2. **POWER:** Turns on the PH60
3. **CABLE CLAMP:** Secures the power supply cable
4. **15 VDC:** external power supply connection
5. **RUBBER FEET:** Surface saving rubber feet to secure the PH60
6. **OUTPUT:** RCA output to feed the receiver or HIFI system
7. **GROUND LUG:** For turntable to eliminate hum and buzz
8. **INPUT:** RCA input to connect your turntable to the PH60

OVERVIEW

Moving coil cartridges produce a much lower output than a moving magnet. In order to bring their gain up to a usable level, between 60 and 70dB of gain is required. This in fact is extremely difficult to do without introducing noise or artefact. This is why moving coil preamps are more expensive.

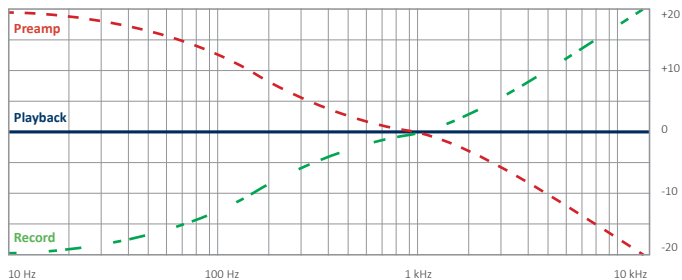


The Hafler PH60 is a combination pre-preamp and RIAA preamp that both increases the level to accommodate the moving coil, adds in the RIAA equalization curve and then boosts the signal so that it can be used by a typical high fidelity receiver.



ABOUT THE RIAA EQUALIZATION CURVE

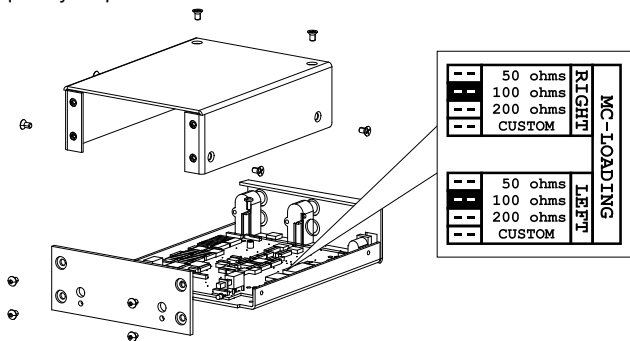
The Recording Institute Association of America (RIAA) figured out that in order to reproduce the recording effectively, the high frequencies have to be exaggerated. Upon playback, the reverse filter must then be applied – resulting in a flat or natural sound.



SETTING LOAD FOR YOUR CARTRIDGE

The Hafler PH60 is set up to accommodate various types of moving coil cartridges. This is accomplished with a series of internal jumpers that can be set for 50Ω, 100Ω and 200Ω plus a custom setting should this be needed.

The PH60 comes factory set at 100Ω as this will accommodate about 90% of the cartridges used today. Your phono cartridge manufacturer will suggest the appropriate load for its cartridge for optimal performance – which should be found in the cartridge's manual or web site. If your cartridge requires a different load, simply take the cover off the PH60 using a standard Phillips screwdriver and a HEX 5/64", carefully pull the jumper from the 100Ω position and push it back on to the 50Ω or 200Ω position to suit. Setting the load correctly will assure the most accurate frequency response.

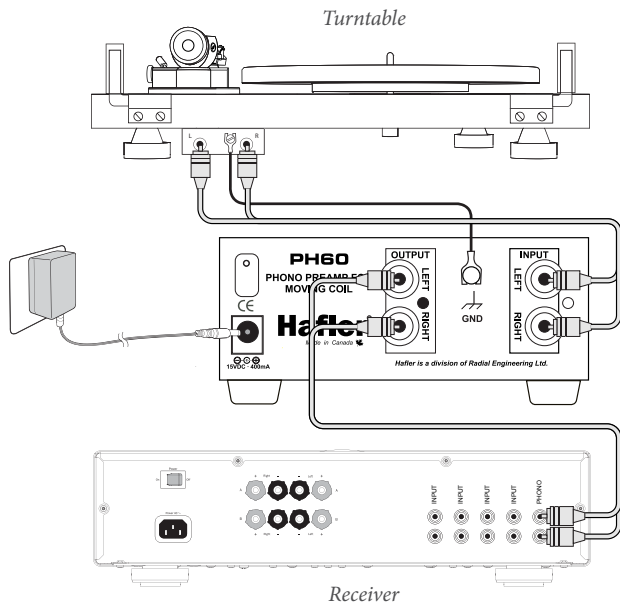


Some cartridge manufacturers may suggest a unique (specific) load to optimize their cartridge's performance. To address this, a fourth 'custom' position in the jumper section of the PCB allows a resistor to be soldered in to suit. Simply have your dealer contact the Hafler service department with the required load and we will calculate the proper resistor. Your dealer's service department can then insert the part at a nominal cost to accommodate your needs.

CONNECT

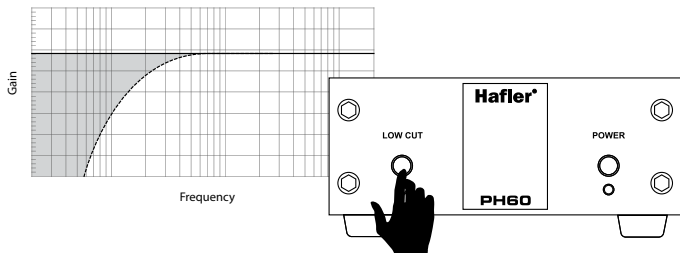
Simply connect the output from your turntable to your PH60 and the output from the PH60 to the phono input on your receiver. Make sure you use high quality coaxial cables with proper shielding to minimize noise. It is also very important that you ensure the ground connection from the turntable be properly and securely fastened to your Hafler PH60 to eliminate hum and buzz.

Connect the included 15VDC power supply and secure the power connection into place using the cable clamp. Once all connections are made, turn the volume on your audio system down and then turn on the power. The power LED on the PH60 will illuminate to let you know the power is being received.

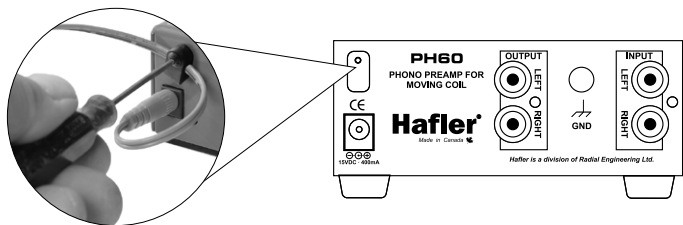


USING

The PH60 is equipped with a switchable high-pass filter that can be activated to eliminate excessive low frequency rumble. This can occur when listening to music at higher levels. If you encounter rumble, simply activate the filter. This handy function can also be used to reduce low frequency transmission to other rooms. Bass energy is much more powerful than mids and highs. Cutting the bass enables you to increase the volume without causing others as much discomfort.



A cable clamp next to the power jack can be employed to prevent accidental disconnection. Loosen the clamp, pass the power cable through and re-tighten.



You are now ready to enjoy 50 years of tradition of building the very finest audio products for the most demanding high fidelity enthusiasts.

THREE YEAR TRANSFERABLE LIMITED WARRANTY

HAFLER (A division of Radial Engineering Ltd.) ("Hafler") warrants this product to be free from defects in material and workmanship and will remedy any such defects free of charge according to the terms of this warranty. Hafler will repair or replace (at its option) any defective component(s) of this product (excluding finish and wear and tear on components under normal use) for a period of three (3) years from the original date of purchase. In the event that a particular product is no longer available, Hafler reserves the right to replace the product with a similar product of equal or greater value. In the unlikely event that a defect is uncovered, please call 604-942-1001 or email service@hafler.com to obtain a RA number (Return Authorization number) before the 3 year warranty period expires. The product must be returned prepaid in the original shipping container (or equivalent) to Hafler or to an authorized Hafler repair centre and you must assume the risk of loss or damage. A copy of the original invoice showing date of purchase and the dealer name must accompany any request for work to be performed under this limited and transferable warranty. This warranty shall not apply if the product has been damaged due to abuse, misuse, misapplication, accident or as a result of service or modification by any other than an authorized Hafler repair center.

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