

User Guide

Outboard Acoustic Preamps

Includes Instructions for

Model GII

General Purpose Preamp

Model BII

Acoustic Bass Preamp

Pro EQ II

Acoustic Instrument Preamp / EQ



FISHMAN[®]
Acoustic Power

Outboard Acoustic Preamps

Thank you for choosing a Fishman Outboard Acoustic Preamp. Our goal is to provide you with the finest products for amplifying your acoustic instrument - systems that simply let you sound your best. With our long-standing commitment to quality, you can feel confident that your Fishman gear will produce great sound and trouble-free performance for years to come.

*Please take a few minutes to read this guide and familiarize yourself with the preamp's controls. Your satisfaction is very important to us. If you have any questions, please contact us at tech@fishman.com; or by telephone at **978-988-9665**.*



Model GII & Model BII

The GII and BII are upgraded and updated versions of our classic Model G & B preamps. Well suited for all acoustic instrument pickups, these new preamps are enclosed in a tough injection molded case. Both models feature advanced new electronics, which are quieter, cleaner and offer longer battery life than their predecessors.



- The GII is designed specifically for acoustic instruments including guitar, violin, viola, 'cello and mandolin.
- The BII offers the same basic features as the GII, but with the tone controls voiced at slightly lower frequencies for upright acoustic bass and acoustic/electric bass guitar.

GII & BII FEATURES

Power

You can power your BII/GII two ways:

1 - 9 Volt Battery

Remove the battery compartment lid by sliding it up towards the top of the unit. Place a fresh 9 Volt alkaline battery in the compartment and replace the lid.

NOTE: Make sure the battery is installed with the correct polarity.

You can expect 1,400 hours of continuous use. To conserve the battery, unplug the input when you are not using the preamp. When you start to hear distortion from the preamp, it is time to change the battery.

2 - 9-Volt AC Adapter Input

Use only a Fishman 910-R or Boss PSA series regulated AC adapter. If a 9 Volt battery is in the preamp, no battery drain will occur when you use the AC adapter.

Input

The input accepts all piezo and magnetic pickups (passive or active). When you plug in here, the 9 Volt battery switches on. To conserve battery life, remember to unplug the input jack when you are not using the preamp. It is a good idea to turn down your amp or mixer before you plug into the input of the preamp. Doing so will protect your speakers (and your ears) from loud pops.

Output

Plug a standard instrument cable from the output to a stage amp, a DI or an unbalanced microphone input on a Mixer.

Input Gain

You'll find this miniature rotary control recessed in the back of the preamp.

Like a trim control on a mixer, the input gain accommodates a variety of signal levels. Use a slot head jeweler's screwdriver to raise or lower the input level.

If the signal coming from your pickup is very weak, you may wish to turn the input trim clockwise, which will raise the overall level and reduce system noise (hiss). If you hear distortion when you play (with a new battery), lower the input trim until it goes away.

Volume

For the cleanest signal, set this as high as possible without distorting your amp or mixer .

Tone Controls

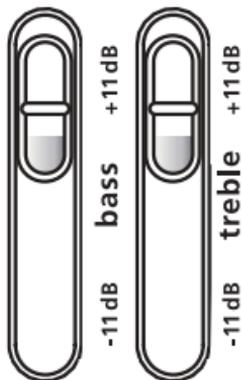
The Tone controls are boost/cut shelving style, which means they affect bass and treble in a way that is both musical and pleasing to your ears. With the sliders at their center detent positions, the EQ is flat and tone controls are out of the circuit. Above center is boost and below is cut.

Bass

A Boost here will add depth and weight to the sound of an instrument with light bass response. Lower the bass to tighten up the big boomy tone of a dreadnought or jumbo guitar.

Treble

A Boost here will help to "cut through the mix" Conversely, lowering the Treble will mellow and subdue your amplified tone.



Implied Midrange Cut

You can cut mids by boosting equal parts of bass and treble.

Optional Belt Clip

Attaches to the back of the GII or BII with two screws.

MODEL GII SPECIFICATIONS

Measured with all tone controls at center detent and volume at max.

Nominal Input Level:	-20 dBV
Input Overload (20 Hz to 20 kHz):	+8 dBV
Input Impedance:	10 MOhm
Output Impedance:	Less than 3.5 kOhm
Output Level:	-20 dBV with input gain control at minimum position -8 dBV with input gain control at maximum position
THD:	.01% at 1 kHz, -10dBV input, -4 dBV output
Signal to Noise Ratio:	91 dB (A weighted, -10 dBV input, -4 dBV output)
Bass Control Range:	\pm 11dB at 60 Hz \pm 3 dB at 350 Hz
Treble Control Range:	\pm 11dB at 10 kHz \pm 3 dB at 2.4 kHz
Current Drain:	Less than .4 mA
Power Supply:	9V alkaline battery (estimated 1400 hours continuous use) Regulated 9V AC Adapter Tip = negative 9 V

All specifications subject to change without notice.

MODEL BII SPECIFICATIONS

Measured with all tone controls at center detent and volume at max.

Nominal Input Level:	-20 dBV
Input Overload (20 Hz to 20 kHz):	+8 dBV
Input Impedance:	10 MOhm
Output Impedance:	Less than 3.5 kOhm
Output Level:	-20 dBV with minimum input gain position -8 dBV with maximum input gain position
THD:	.01% at 1 kHz, -10dBV input, -4 dBV output
Signal to Noise Ratio:	91 dB (A weighted, -10 dBV input, -4 dBV output)
Bass Control Range:	± 11 dB at 60 Hz ± 3 dB at 350 Hz
Treble Control Range:	± 11 dB at 10 kHz ± 3 dB at 1.2 kHz
Current Drain:	Less than .4 mA
Power Supply:	9V alkaline battery (estimated 1400 hours continuous use) Regulated 9V AC Adapter Tip = negative 9 V

All specifications subject to change without notice.

Pro EQ II

The Pro EQ II is an upgraded and updated version of our classic preamp/equalizer. It is well suited for all acoustic instrument pickups. Enclosed in a tough injection molded case, the Pro EQ II features advanced new electronics which are quieter, cleaner and offer longer battery life than our original Pro EQ preamp.



PRO EQII FEATURES

Power

You can power your Pro EQII two ways:

1 - 9 Volt Battery

Remove the battery compartment lid by sliding it up towards the top of the unit. Place a fresh 9 Volt alkaline battery in the compartment and replace the lid.

NOTE: Make sure the battery is installed with the correct polarity.

You can expect 220 hours of continuous use. To conserve the battery, unplug the input when you are not using the preamp. When you start to hear distortion from the preamp, it is time to change the battery.

2 - Nine-Volt AC Adapter Input

Use only a Fishman 910-R or Boss PSA series regulated AC adapter. If a 9 Volt battery is in the preamp, no battery drain will occur when you use the AC adapter.

Output

Plug a standard instrument cable from the output to a stage amp, DI or an unbalanced microphone input on a Mixer.

Input

The input accepts all piezo and magnetic pickups (passive or active).

When you plug in here, the 9 Volt battery switches on. To conserve battery life, remember to unplug the input jack when you are not using the preamp. It is a good idea to turn down your amp or mixer's input before you plug into the input. Doing so will protect your speakers (and your ears) from loud pops.

Input Gain

You'll find this control located on the back of the preamp, to the left of the sub bass control. Like a trim control on a mixer, the input gain accommodates a variety of signal levels. Use a slot head jeweler's screwdriver to raise or lower the input level.

Input Gain Continued

If the signal coming from your pickup is very weak, turn the input gain clockwise to reduce the overall system noise (hiss). If you hear distortion when you play (with a fresh battery), lower the input trim until it goes away.

Sub Bass

You'll find this control located on the back of the preamp, to the right of the input gain control. Use a slot head jeweler's screwdriver to raise or lower the sub bass level.

For instruments with lots of natural deep bass, typically dreadnought and jumbo style guitars, leave the sub bass at its factory set full counterclockwise position.

For instruments that don't naturally produce a lot of deep bass, such as small bodied electro-acoustic guitars, adjust this control clockwise to add bass resonance.

Low Battery Light

This light has two distinct functions:

1. Power Up Indicator

The low battery LED will flash briefly when the unit turns on. Some people ask us, "Why doesn't this light stay on, like a conventional pilot light?" We believe that a steadily lit LED devours too many precious hours of battery life. So, by briefly flashing the Pro EQ II's light when the unit turns on, we conserve power and extend the useful life of the battery.

2. Low Battery Warning

When the Low Battery LED lights steadily, it is time to change the battery.

Phase

This control works to suppress acoustic feedback and can drastically affect your amplified tone. Flip the Phase switch back and forth until you find a position that sounds good and subdues feedback.

Volume

For the cleanest signal, set this as high as possible without distorting your amp or mixer

Optional Belt Clip

Attaches to the back of the Pro EQ II with two screws.

PRO-EQ II TONE CONTROLS

Bass

A Boost here will add depth and weight to the sound of an instrument with light bass response. Lower the bass a few dB to tighten up the big boomy tone of a dreadnought or jumbo guitar.

Middle

More than any other control, the middle slider can affect the character of your instrument's tone. Typically, a slight mid cut just below the center detent will help bring out roundness in the bass and will unmask the treble. A deep midrange cut produces a "scooped out" tone that works well at high volume levels and can help to reduce feedback. Boost the mids for an "in your face" nasal quality, similar to electric guitar tone.

Treble

A Boost here will help to "cut through the mix". Conversely, cutting the Treble will mellow and subdue your amplified tone.

Brilliance

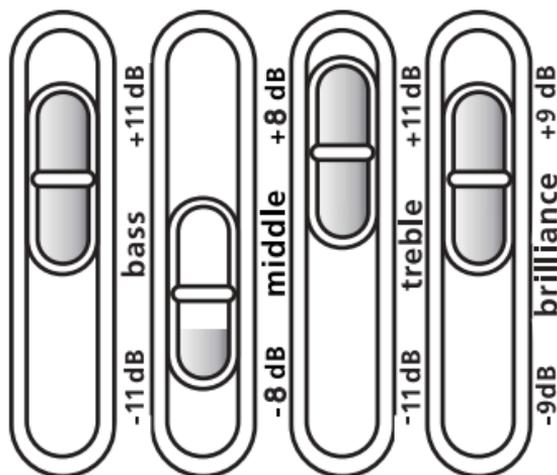
This slider can add shimmer and sparkle to your sound. It zeros in on "extra crispy" high frequency tones, the realm of harmonics and acoustic string sound. Lowering the Brilliance slider can help to reduce finger noise and fret buzz.

SAMPLE EQ SETTINGS

Here are a few suggested settings for the Pro EQ II:

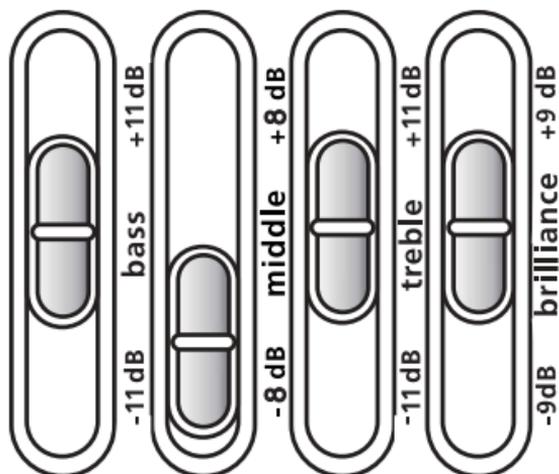
Finger Style

This setting will add fullness to the bass and definition to the treble.



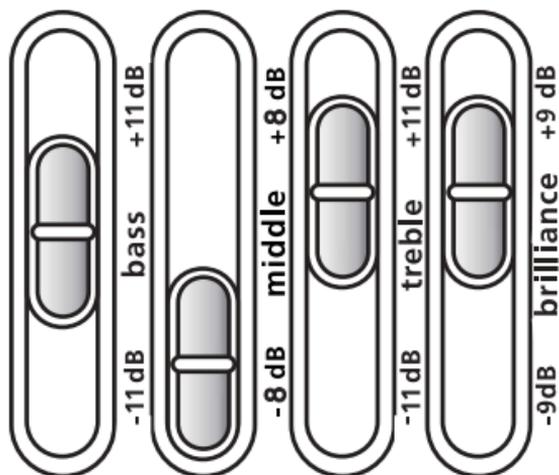
"Scooped" Mid

This is the popular "smiley eq" tone that emphasizes extreme bass and treble.



Strummer

This is a good overall setting if you mainly strum the instrument.

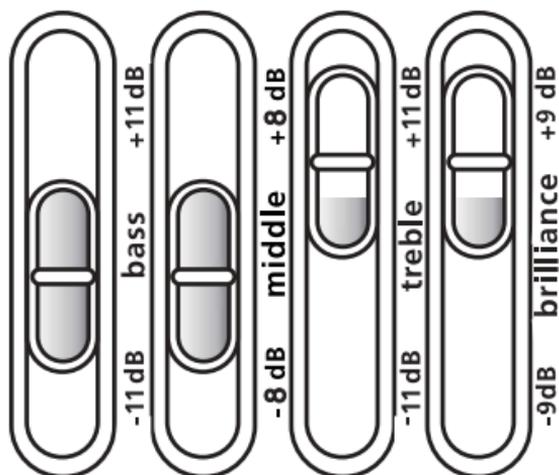


Outboard Acoustic Preamps

Sample Settings Continued

Cut through the mix

This setting is helpful when you need to be heard through a loud band.



PRO-EQ II SPECIFICATIONS

Measured with all tone controls at center detent and volume at max.

Nominal Input Level:	-20 dBV
Input Overload (20 Hz to 20 kHz)	+8 dBV
Input Impedance:	10 MOhm
Output Impedance:	Less than 3.5 kOhm
Nominal Output Level:	-20 dBV with input gain control at minimum position -8 dBV with input gain control at maximum position
THD:	.015% at 1 kHz, -10 dBV input, -4 dBV output
Signal to Noise Ratio:	93 dB (A weighted, -10 dBV input, -4 dBV output)
Sub-Bass Control:	0 to +10 dB at 80 Hz
Bass Control Range:	± 11dB at 60 Hz ± 3 dB at 350 Hz
Middle Control Range:	± 8 dB at 1.25 kHz ± 3 dB bandwidth:1.5 kHz
Treble Control Range:	± 11dB at 10 kHz ± 3 dB at 2.4 kHz
Brilliance Control Range:	± 9 dB at 9 kHz ± 3 dB bandwidth: 7 kHz
Current Drain:	Less than 2.6 mA
Power Supply:	9V alkaline battery (estimated 220 hours continuous use) Regulated 9V AC Adapter tip = negative 9V

All specifications subject to change without notice.

Limited Warranty

FISHMAN Model GII BII and Pro-EQ II Preamps are warranted to function for a period of One (1) Year from the date of purchase. If the unit fails to function properly within the warranty period, free repair and the option of replacement or refund in the event that FISHMAN is unable to make repair are FISHMAN's only obligations. This warranty does not cover any consequential damages or damage to the unit due to misuse, accident, or neglect. FISHMAN retains the right to make such determination on the basis of factory inspection. Products returned to FISHMAN for repair or replacement must be shipped in accordance with the Return Policy, as follows. This warranty remains valid only if repairs are performed by FISHMAN. This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

Return Policy

To return products to FISHMAN TRANSDUCERS, you must follow these steps...

1. Call FISHMAN TRANSDUCERS at 978-988-9199 for a Return Authorization Number ("RAN").
2. Enclose a copy of the original Bill of Sale as evidence of the date of purchase, with the product in its original packaging and a protective carton or mailer.
3. FISHMAN TRANSDUCERS' technicians will determine whether the item is covered by warranty or if it instead has been damaged by improper customer installation or other causes not related to defects in material or workmanship.
4. Warranty repairs or replacements will be sent automatically free of charge.
5. If FISHMAN TRANSDUCERS determines the item is not covered by warranty, we will notify you of the repair or replacement cost and wait for your authorization to proceed.

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