OWNER'S MANUAL

Powerblend®

Stereo Blending Pedal



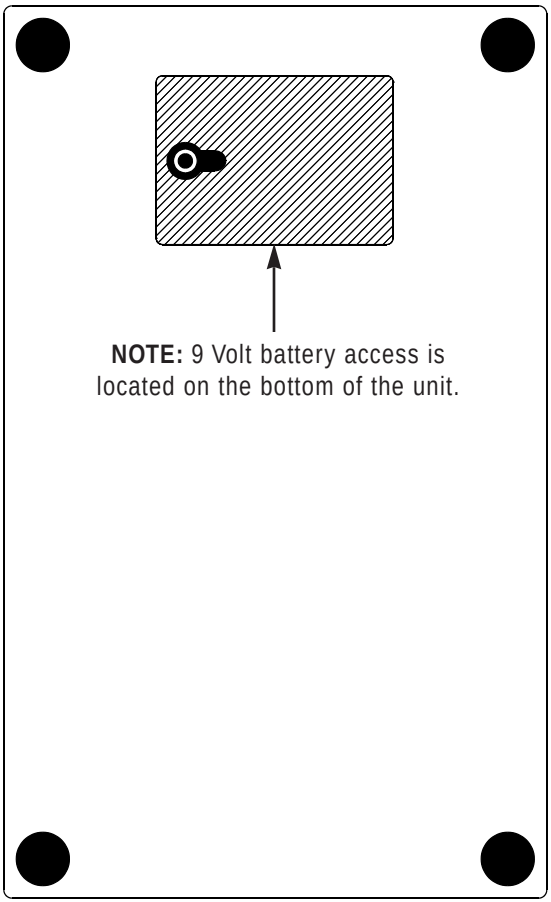
For Use With Electric Guitars Equipped With The Fishman Powerbridge System And All Other Stereo Output Electric Guitars

FISHMAN®

Thank you for purchasing this accessory for the Fishman Powerbridge system. We are confident that the Powerblend will greatly enhance the performance and utility of your Powerbridge system. Please read these instructions carefully. If you have any questions or problems, contact **Fishman Customer Service** at **978-988-9665**.

The Fishman Powerblend is an active stereo blending floor pedal, optimized for electric guitars equipped with the Fishman Powerbridge. The Powerblend provides the perfect interface between the Powerbridge, the guitar's magnetic pickups and single or multiple audio destinations.

The silent action volume pedal permits hands free control of the Powerbridge volume and facilitates quick changes between magnetic and piezo pickups. Dedicated Powerbridge EQ, as well as four essential output options provide the missing link for the Powerbridge/magnetic pickup signal chain.



NOTE: 9 Volt battery access is located on the bottom of the unit.

FEATURES

1. 9V AC Adapter Input

2. Stereo Input Jack

3. Lo Cut Filter

EQ Section
(Powerbridge signal only)

4. Treble Control

5. Midrange control

6. Bass Control

7. Clip / Battery low LED

8. Blend Pedal

9. Piezo Trim

10. Magnetic Thru Jack

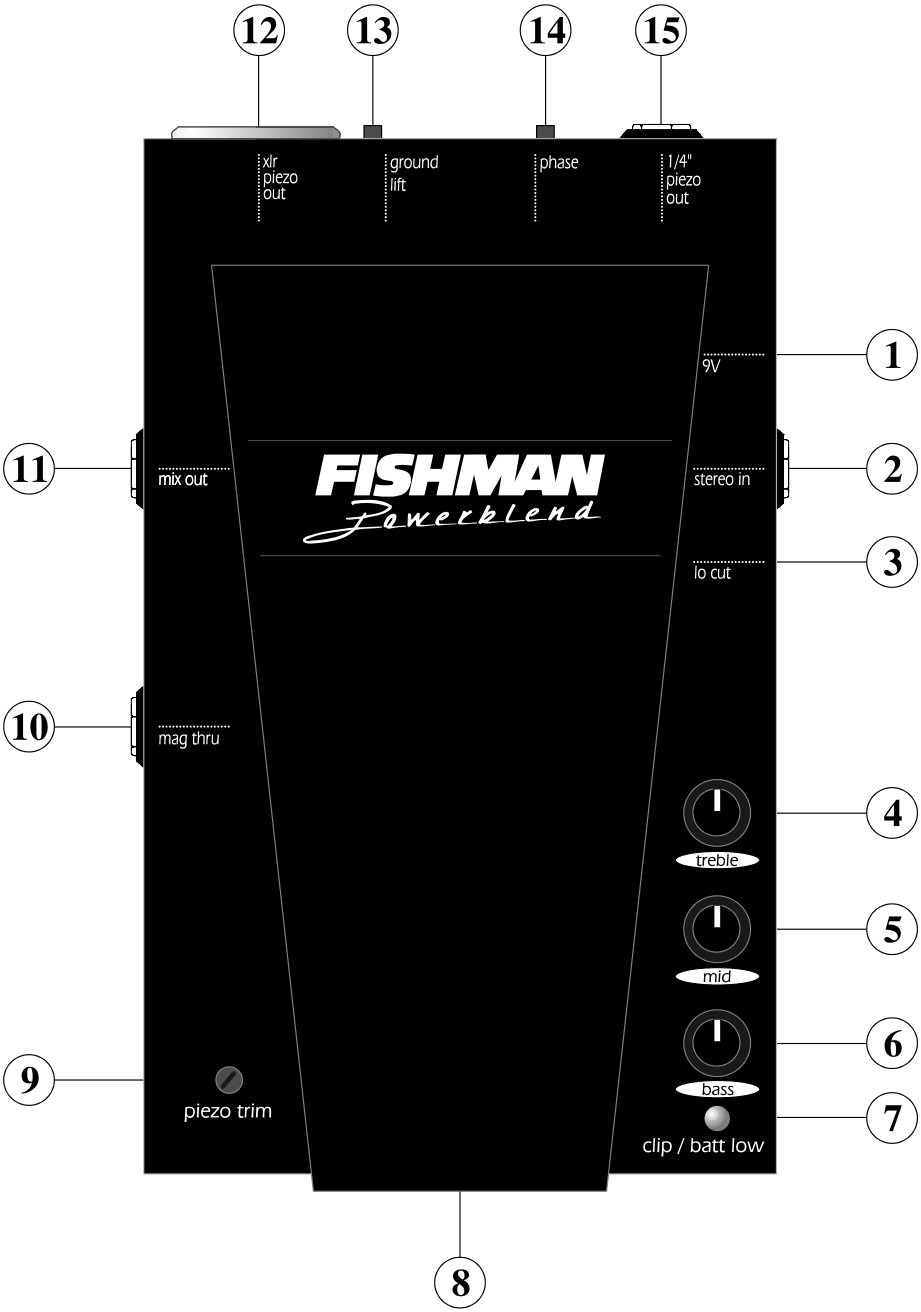
11. Mix Output Jack

12. XLR Piezo Output Jack

13. Ground Lift

14. Phase Switch

15. 1/4" Piezo Output Jack

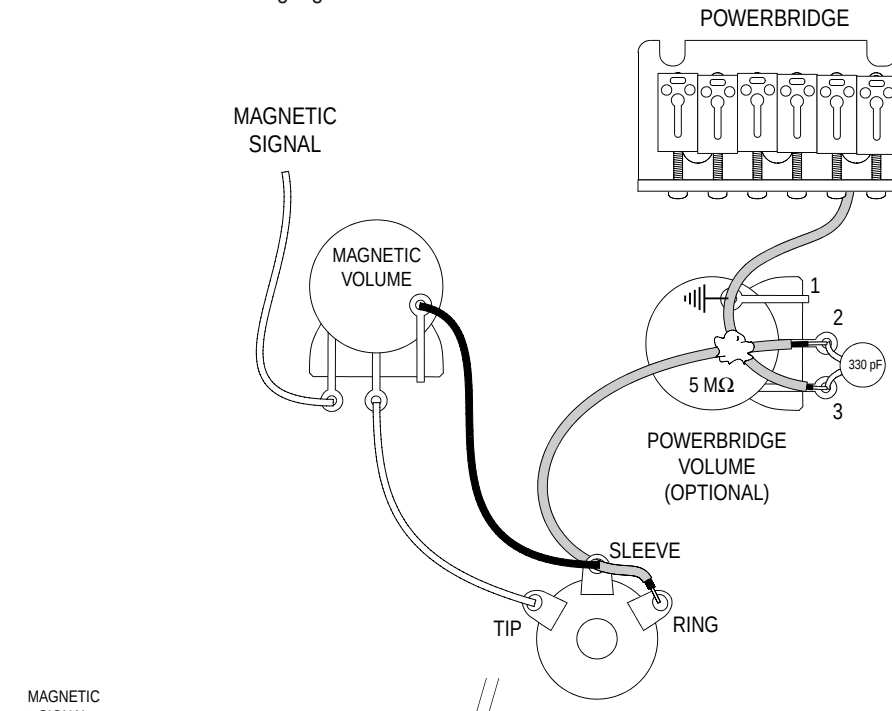

12
13
14
15
xlr
piezo
out
ground
lift
phase
1/4"
piezo
out
1
9V
11
mix out
FISHMAN
Powerblend
stereo in
2
3
lo cut
10
mag thru
4
treble
5
mid
6
bass
9
piezo trim
7
clip / batt low
8

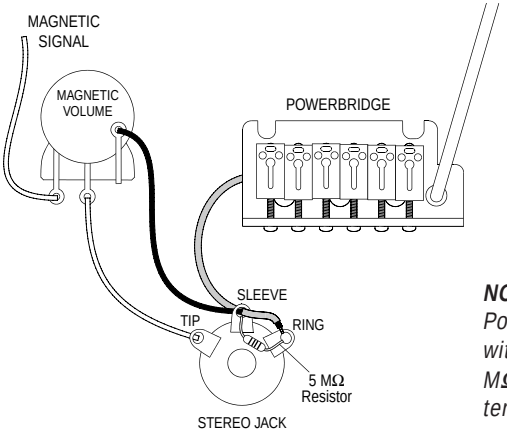
PREPARING YOUR INSTRUMENT FOR THE POWERBLEND

Before you begin using your Powerblend, you need to have the magnetic and Powerbridge pickups in place on your guitar.

Wire the guitar to a stereo output jack as follows:

1. Route the magnetic pickups' signal to the TIP terminal.
2. Route the magnetic pickups' ground to the SLEEVE terminal.
3. Route the Powerbridge signal to the RING terminal.
4. Route the Powerbridge ground to the SLEEVE terminal.





NOTE: *If you decide to wire the Powerbridge directly to the output jack without a volume control, you must wire a 5 MΩ resistor between the Ring and Sleeve terminals on the instrument's output jack.*

FUNCTIONS

BATTERY POWER

Make note of the following when using the Powerblend under battery power:

- The Powerblend has no on/off switch. Under battery power, the Powerblend is turned on when the STEREO IN jack is plugged in.
- The Powerblend pedal is always on when using an AC adapter.
- To avoid excessive battery drain, unplug the STEREO IN jack when the unit is not in use (battery life is an estimated 55 hours, continuous use).

BATTERY COMPARTMENT

To install the battery (see page 3) slide the latch on the battery compartment to the right and remove the door. Install a fresh 9 Volt alkaline battery in the battery clip.

AC ADAPTER INPUT

USE ONLY a FISHMAN model 910-R or a Roland PSA series Regulated AC Adapter.
Using an unregulated power supply will void the warranty and may damage the unit.

STEREO IN JACK

The STEREO IN jack is a TRS (Tip/Ring/Sleeve) 1/4" input that accepts two discrete signals through a stereo instrument cable.

Route the magnetic pickup signal to the Tip terminal and route the Powerbridge (Piezo) signal to the Ring terminal of this jack.

Use the included stereo cable to connect your guitar to the Powerblend.

LO CUT FILTER

This switch lets you select between three distinct voicings for the Powerbridge pickup.

TOP POSITION (Flat)
For full frequency response, select the top position. This works best with hard-tail style Powerbridges, especially through a full range sound system.

MIDDLE POSITION (Bass Cut)
Gently rolls off the low end. The Bass Cut position slightly subdues bass and unmasks mids and highs.

BOTTOM POSITION (Deep Bass Cut)
Use the bottom position for all vibrato style Powerbridges. This setting "trims the fat" by cutting sub-bass frequencies. The Deep Cut will minimize rumble and handling noise on vibrato style guitars. It will also provide "woofer insurance" by limiting low frequency cone excursion when using the vibrato arm.

- **PIEZO EQUALIZATION**

BASS and TREBLE CONTROLS
These are boost/cut shelving tone controls. They affect only the piezo (Powerbridge) signal appearing at the Ring input of the STEREO IN jack.

MIDRANGE CONTROL
This is a resonance style boost/cut tone control. It affects only the piezo signal appearing at the Ring input of the STEREO IN jack.

CLIP / LOW BATTERY INDICATOR
When plugging into the POWERBLEND, the Low battery LED will flash momentarily, indicating that the power is on. When the Low Battery LED stays on with the Input jack plugged in, it's time to change the battery. The LED will also flash when the Piezo Input is overloaded (clipping). In these cases, lower the Piezo Trim until the light stops flashing.

PIEZO (POWERBRIDGE) BLEND PEDAL
Depressing the pedal adds the signal from the Powerbridge to the MIX OUT, XLR PIEZO OUT, and the 1/4" PIEZO OUT.

PIEZO TRIM
Sets the piezo level relative to the magnetic pickups' level. Use this to balance the Powerbridge with the guitars' magnetic pickups. Also, use this control to attenuate a clipped (distorted) piezo signal.

MAGNETIC THRU JACK
A direct unbuffered signal from the guitar's magnetic pickups appears at this output. Plug this into the input of a guitar amplifier for unaffected magnetic pickup sound.

MIX OUT JACK
A combination of buffered magnetic pickup and Piezo Pickup signals appear at this instrument level output. Use the Mix Out when you are limited to one input source for both piezo (Powerbridge) and magnetic pickups. Typically the MIX OUT goes to a single channel instrument amp or a direct box.

XLR PIEZO OUTPUT
An electronically balanced, instrument level signal from the Powerbridge appears at this output. For best results, plug this into an acoustic instrument amp or PA system.

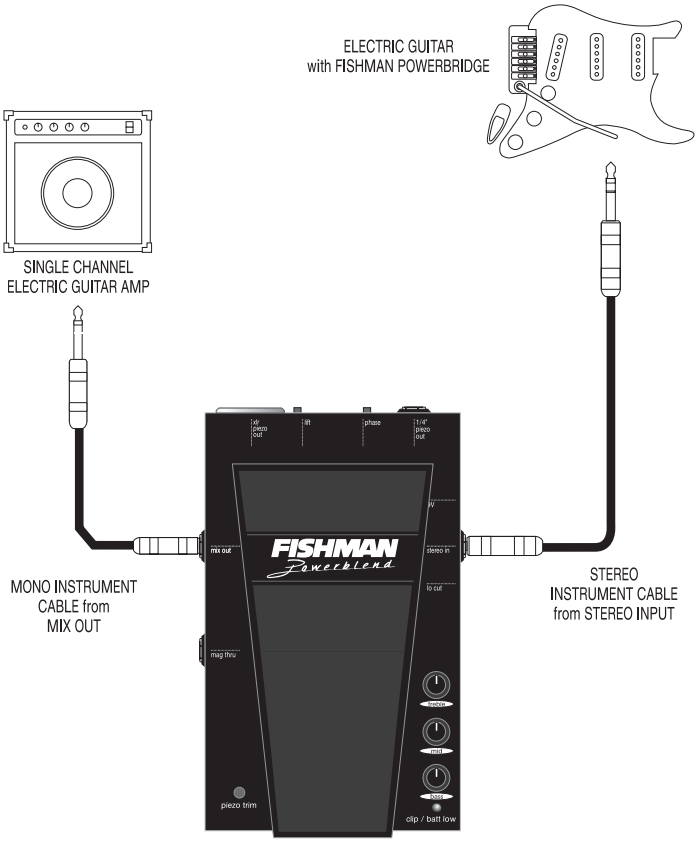
GROUND LIFT SWITCH
This switch removes pin #1 from the XLR PIEZO OUTPUT. Use this switch to minimize ground loop hum between the Powerblend and other audio devices.

PIEZO PHASE SWITCH
This switch reverses the phase relationship 180 degrees between the Powerbridge and magnetic pickups. If you experience a volume loss when combining the Powerbridge with the guitars' magnetic pickups, flip this switch to correct the phase relationship between the two.

1/4" PIEZO OUTPUT JACK
An unbalanced, buffered, instrument level signal from the Powerbridge appears at this output. For best results, plug this into an acoustic instrument amp or PA system.

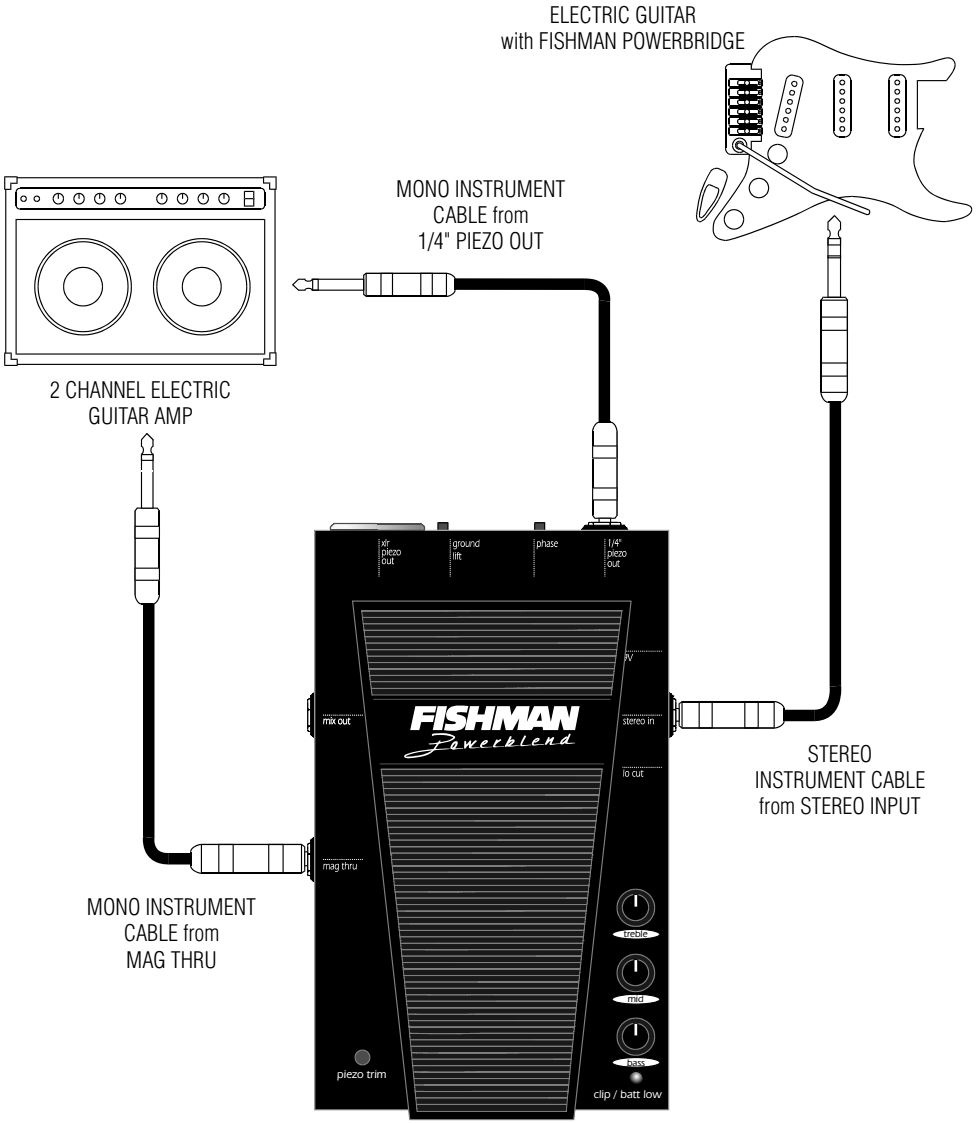
SUGGESTED SIGNAL ROUTING OPTIONS

Powerbridge and magnetic pickups to a single channel amp.



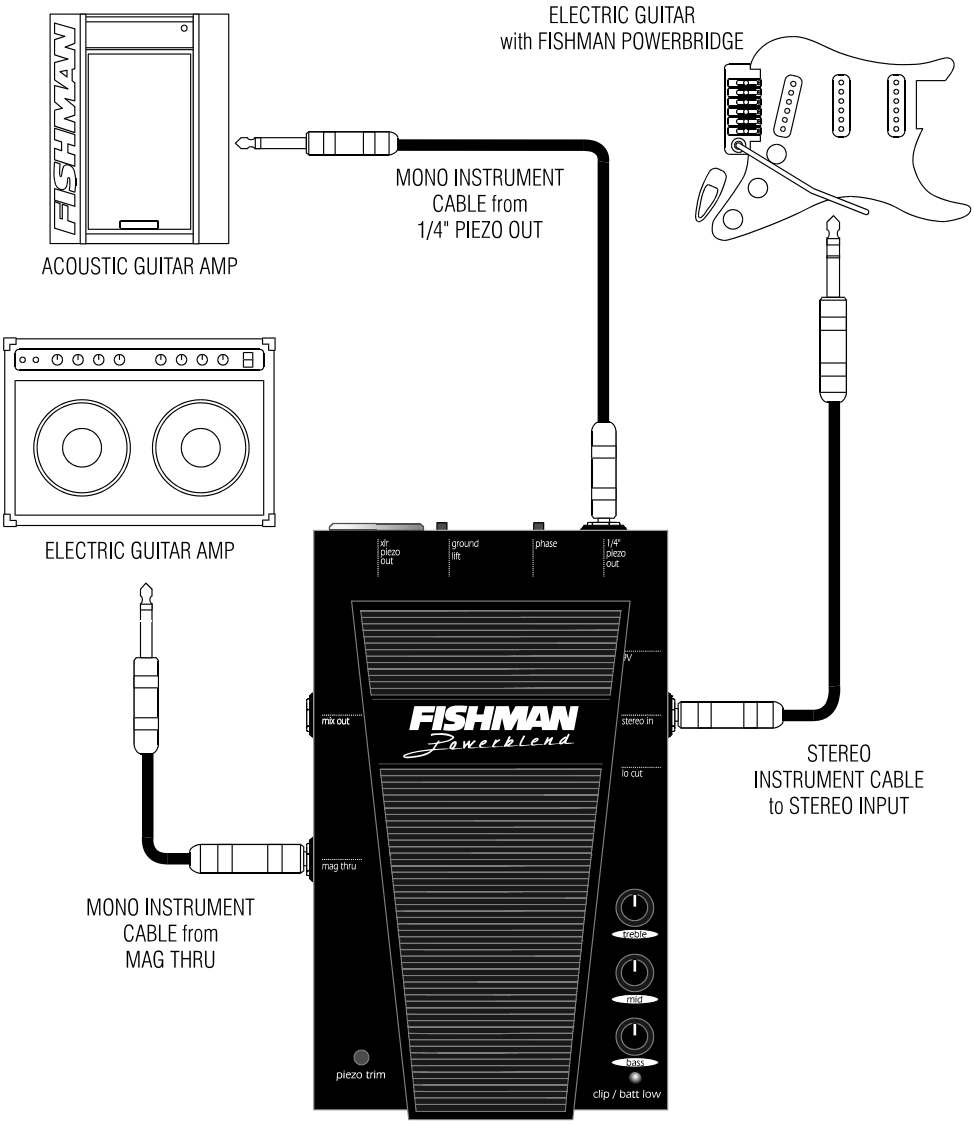
SUGGESTED SIGNAL ROUTING OPTIONS

Powerbridge and magnetic pickups to separate channels of a single amp.



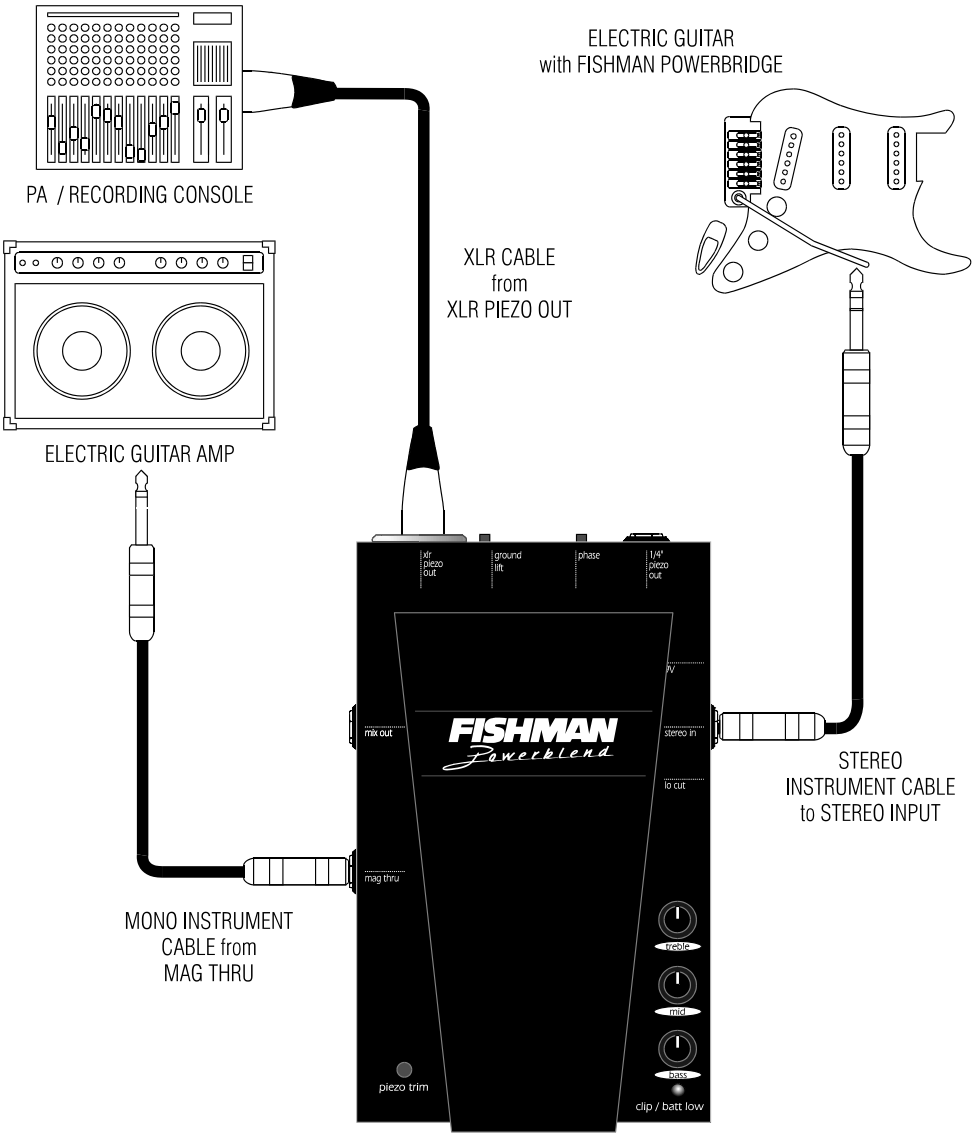
SUGGESTED SIGNAL ROUTING OPTIONS

Powerbridge and magnetic pickups to two separate amps



SUGGESTED SIGNAL ROUTING OPTIONS

Powerbridge to a PA and magnetic pickups to a guitar amp.



SPECIFICATIONS

Nominal Input Levels

Piezo (Powerbridge)	-10 dBV
Magnetic	-10dBV
Inputs Overload Level	+10 dBV

Input Impedances

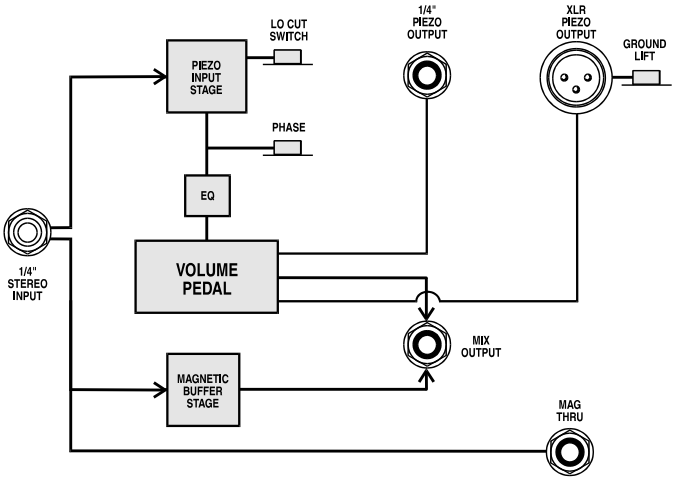
Magnetic	
Mix Out buffer:	1 MΩ
Mag Thru:	Unaffected
Piezo	Proprietary

Nominal Output Levels and Impedances

Magnetic Thru	-10 dBV
1/4" Piezo Out	-12 dBv (1 kΩ)
Mix Out	-5 dBV (1 kΩ)
Piezo XLR Out	-6 dBV (600 Ω)
Outputs Overload Level	+12 dBV (+18 dBV for Piezo XLR Out)
Bass Control Range	± 11 dB at 80 Hz ± 3 dB at 350 Hz
Mid Control Range	± 12 dB at 1.1 kHz ± 3 dB bandwidth 1.3 kHz
Treble Control Range	± 12 dB at 10 kHz ± 3 dB at 2.4 kHz
THD	Less than .02%, -10 dBV input
Signal to Noise Ratio	91 dB (A weighted referred to nominal -10 dBV input)
Power Supply	9V alkaline battery (estimated 55 hours continuous use) Regulated Fishman 910-R 9V AC Adapter
Current Draw	9 mA
Dimensions	5.5" width x 9" deep x 2" tall

All specifications subject to change without notice

BLOCK DIAGRAM



Limited Warranty

The FISHMAN POWERBLEND is 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.

FISHMAN®
Acoustic Power

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