www.fishman.com

FISHMAN®

USER GUIDE
TONEDEQ | AFX

Important Safety Information

To ensure your personal safety and the safety of others, operate this apparatus only after completely reading this instruction manual and heeding the warnings listed below.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

NOTE: Fishman Transducers, Inc. is not responsible for unauthorized equipment modifications that could violate FCC rules, and/ or void product safety certifications.

EU Declaration of Conformity CE: Hereby, Fishman declares that this ToneDEQ is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC.

Welcome

Thank you for making Fishman a part of your acoustic experience. We are proud to offer you the finest acoustic amplification products available; high-quality professional-grade tools to empower you to sound your very best. We are confident **TONEDEQ | AFX** will both enhance and inspire your music making.

Quick Start

Power • Install a fresh 9V battery (not included) or connect a Fishman 910-R power adapter.

Set the controls • **Volume** at minimum and all other controls as shown below.

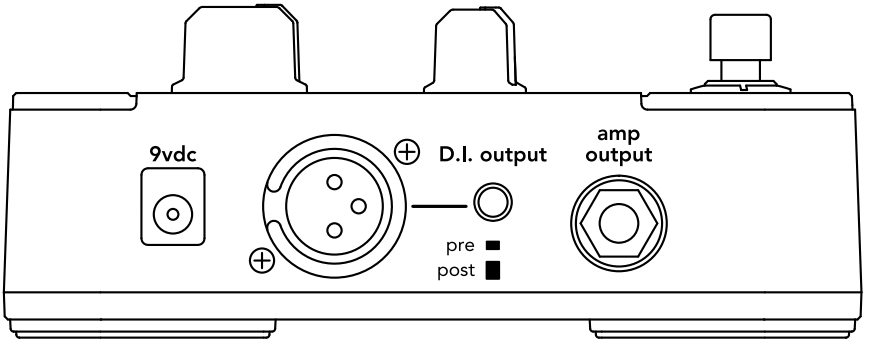
Plug in • Use standard ¼-inch and XLR shielded instrument cables.

Set input trim • Play hard and adjust the **input trim** (on the right side) so the **level** LED lights green and occasionally flashes red.

Turn up • Raise the **volume** and adjust the low, mid and high controls.

Select effects • Audition effects using their select knobs and foot switches. Adjust each effect's intensity using its individual **level** control.

Left Side Panel



9VDC

Power may be supplied by either a 9V battery (battery compartment underneath the pedal) or the Fishman 910-R power adapter.

XLR D.I. Output

Connect a standard microphone cable here to feed recording equipment or a sound reinforcement mixing console. When the 1/4" output is also connected, this D.I. output's ground is automatically lifted to prevent any unwanted ground loops. This D.I. provides a fixed-level output, unaffected by the volume control.

D.I. Output Pre/Post

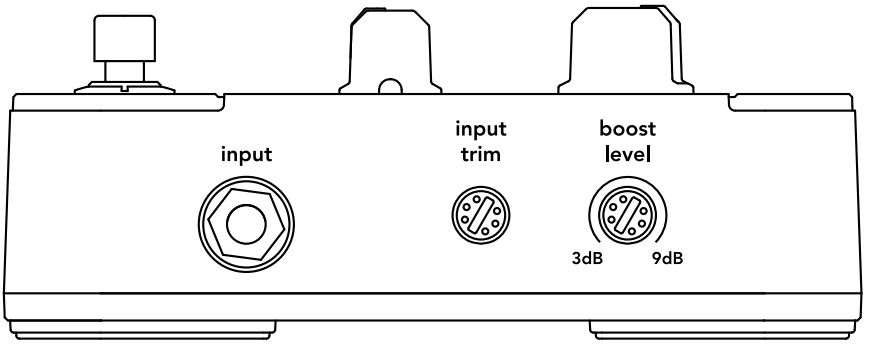
Choose between a true D.I. (pre EQ) or an effected XLR output (post EQ).

- Post is useful in live venues (especially if you are mixing from onstage) where you want your "dialed-in" sound to come through the PA.
- Set this switch to the Pre position when you want a "flat" DI signal going to the board and you wish to leave it to the sound-person or recording engineer to dial up the instrument tone from their console.

Amp Output

Use a standard ¼-inch instrument cable to connect the **amp output** to your amplifier, mixer or effects devices. You can also connect the **amp output** to an unbalanced input on a recording system.

Right Side Panel



Input

Plug in your instrument here with a standard ¼-inch instrument cable. If you have a passive undersaddle pickup (no battery onboard), always plug into this preamp pedal first, even if you use a pedal tuner.

Insert a plug into the **input** jack, and the **TONEDEQ | AFX** powers up. To conserve the battery, remove the plug from the **input** when not in use.

Input Trim

Raise or lower the **input trim** to optimize the input level for your pickup. Play hard and adjust **input trim** so the **level** LED lights green and occasionally flashes red. Some pickup systems may not cause the light to flash red at all and other onboard preamps may require you to turn their output down to achieve an optimum level.

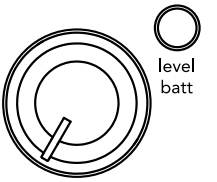
Boost Level

The amp output and D.I. output level can be boosted using the boost foot switch. The **boost level** controls the amount of increased output level from 3dB to 9dB.

Front Panel

Volume

The **volume** control affects the 1/4 inch output level only. For the cleanest signal, set the **volume** as high as possible without clipping the next device in the signal chain. If you hear distortion and the **level** light is not flashing red, reduce the **volume**. For setting proper levels, refer to **input trim** on page 5.

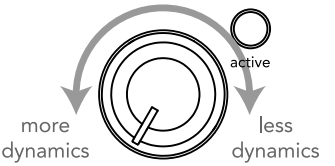


volume

Compressor

The compressor uses a sophisticated leveling circuit to automatically reduce the volume of loud sounds determined by your playing level and the setting of the **compressor** control.

As you turn this knob clockwise, your overall playing dynamics become increasingly limited, making softer notes louder and controlling loud spikes in your playing. This can be helpful in performances where you desire a more even level to your playing. At its maximum setting, there may be some overall increase in the output level.



compressor

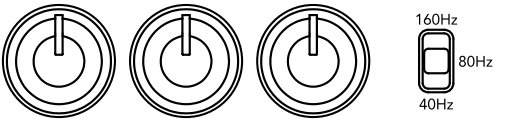
The **active** LED will light green to indicate that the compressor is beginning to affect your dynamics. If the signal level continues to increase to the point where 6dB of compression has occurred, the LED will change to amber.

Battery Replacement

The **batt** indicator will light steadily when it is time to change the battery. Open the battery door underneath the pedal and install a fresh 9V alkaline or lithium battery. When the **batt** LED comes on you have approximately one hour of remaining battery life. Approximate battery life is 12 hours using common alkaline battery and 18 hours with a lithium battery.

Front Panel (cont.)

Tone Controls



Low • Boost here to add depth and weight to the sound of the instrument.

Mid • Turn all the way left for a smooth "scooped out" tone at high volumes. Raise the control to the right of center to add midrange "bite" to the sound.

High • Boost to cut through the mix. Cut to mellow and subdue the sound.

Low Cut • Adjust this control to affect the lowest frequencies that can cause "rumble" or thumping sounds while you play.

Phase

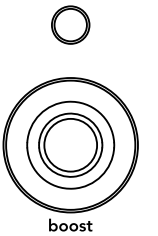
The **phase** switch flips the polarity of your instrument signal from positive to negative, changing its relationship to the sound coming from the amplifier. One phase setting usually provides better resistance to feedback than the other and will vary depending on the instrument and playing environment.

Another approach to determining optimal phase is the selection which sounds or feels most natural when playing. In certain playing environments the **phase** switch may not have an audible impact.

The **phase** switch also affects the signal polarity to the balanced XLR D.I. and 1/4 inch outputs, synchronizing the **amp output** with other sound systems in use.

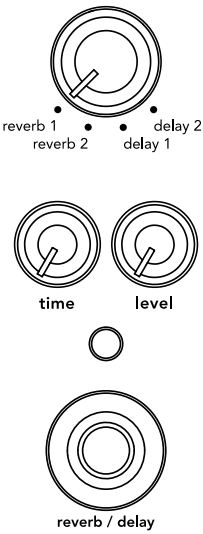
Boost

The **boost** foot switch increases the pedal's overall output level at the amp and D.I. output from 3dB to 9dB. When activated, the LED above the foot switch will light steadily. The amount of level increase is determined by the boost level control on the pedal's right side panel.



Front Panel (cont.)

TONEDEQ | AFX offers two independent effects processors that run in parallel with the analog preamp, compressor and EQ circuits to reduce the effect of coloration on your instrument's sound.



Reverb & Delay Effects

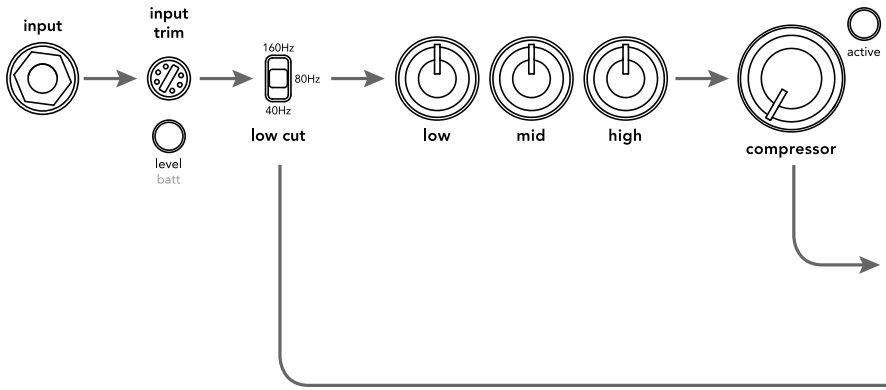
Time • Sets the overal "length" of the reverb or delay effect. For reverb effects, increasing this control will make the reverb "tail" more obvious. For delay effects, increasing this control will add space between each repeat.

Level • The **level** control mixes the effect in parallel, adding as much or as little effect into your direct sound.

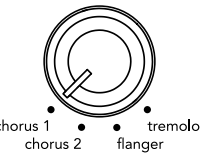
Effects:

- Reverb 1
- Reverb 2
- Delay 1
- Delay 2

Block Diagram

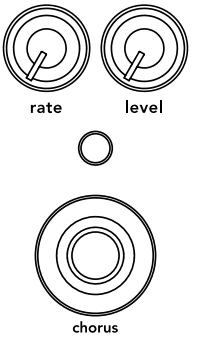


Chorus Effects



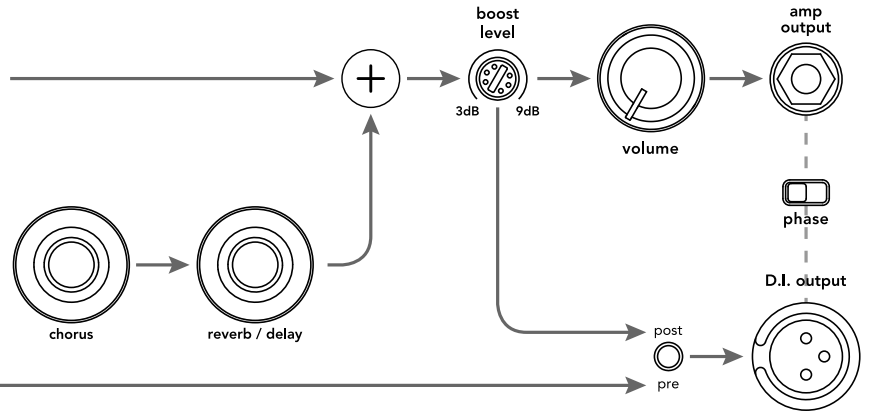
Rate • Sets the speed (rate) or intensity of the selected effect.

Level • The **level** control mixes the effect in parallel, adding as much or as little effect into your direct sound.



Effects:

- Chorus 1
- Chorus 2
- Flanger
- Tremolo



Technical Specifications

Input impedance:	10M Ohm
Input trim gain range:	-6dB to +14dB
Nominal Output impedance:	1k Ohm, Amp Output 600 Ohm, D.I. Output
Maximum Output level:	+8dBV (onset of clipping)
Baseline noise:	-91dBV (A-weighted)
Dynamic range:	97dB (A-weighted)
Typical in-use current consumption:	37mA (62mA max.)
Typical 9V battery life:	12 hours using alkaline battery 18 hours using lithium battery)
9V adapter:	Fishman 910-R or suitable filtered and regulated, 200mA type, tip = negative
Tone Controls:	
Low cut:	40Hz, 80Hz, 160Hz
Low control:	±14dB @ 100Hz
Mid control:	±12dB @ 700Hz, Q=1
High control:	±15dB @ 6.5kHz
Compressor:	
Threshold:	Variable
Ratio:	2.3:1
Phase switch:	Left position = non-inverting
Boost:	Variable: +3dB to +9dB
Dimensions:	5.6" D x 9.5" W x 2.2" H 142mm D x 240.8mm W x 55mm H
Weight:	2.2lbs (1.0kg)

We reserve the right to change any of the the specifications and information in this manual without notice.

FISHMAN

www.fishman.com