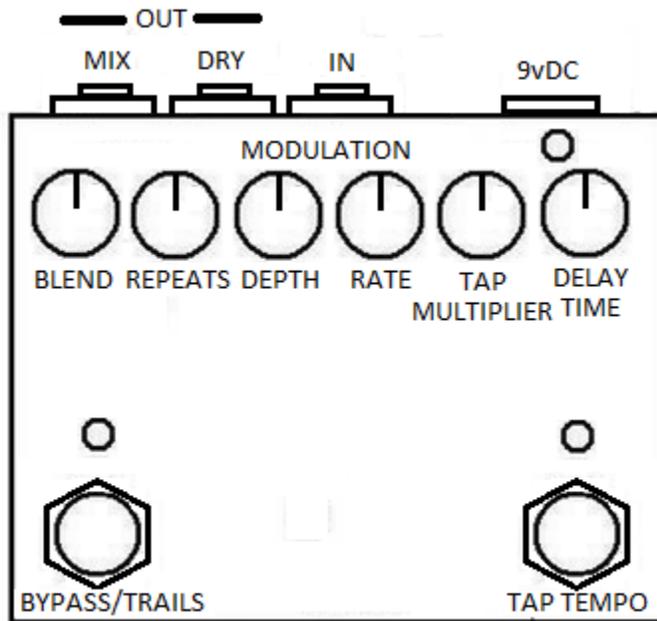


## Echo Royal



Blend: Blends between your dry signal and the echo effected signal.

Repeats: Controls how many times the echo will repeat for each note played.

Depth: Controls the depth of the modulation on the echo affected signal.

Rate: Controls the rate of the modulation on the echo affected signal.

Tap Multiplier: Set Tap to delay time ratio. 'Noon' position = 1 tap for 1 echo. Turn counter clockwise for multiple echoes per tap, turn clockwise for less echoes per tap.

Delay Time: Sets the delay time of the effect.

Bypass/Trails: Turns effect on. Hold for 3 seconds to switch between 'normal' and 'trails' mode. Trails mode leaves the repeats playing even after the pedal has been bypassed.

Tap Tempo: Tap more than once to set delay time. Hold for 2 seconds to switch back to Delay Time knob. NOTE: If you turn the Delay Time knob the setting automatically switches to it.

Input impedance: 1M Ohms

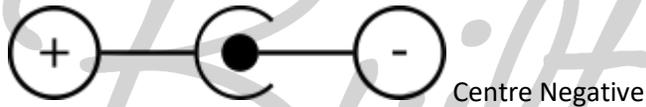
Output impedance: 47 Ohms

Current Draw: 80 mA

# Built By Abel

## General Information

**Power Requirements:** All pedals require 9 volts DC (direct current) from a 9VDC Power Supply with a 2.1 mm centre negative barrel jack. Look for this symbol to determine the polarity of the power supply.



Any standard power supply for guitar pedals such as the Dunlop Crybaby or the Boss Compact series like the DS-1 Distortion will work and are available at most music stores. Most pedals Built by Abel can also be powered via a 9V Battery (*except the Micro Series pedals, Analog Delay, Soaring Skillet, Divided Octave, Stereo Flanger, and the Amp Selector & Stereo FX Router*). Pedals with battery power available are wired so that when a battery is in the pedal and a power supply is plugged in, the battery is bypassed so it does not get drained. (*Note: it is not a good idea to leave a battery in the pedal for a long time unattended because they could leak and damage the circuit*) If you use a battery to power your pedal, unplug the "IN" jack when not in use to conserve battery life.

**Guarantee:** Your pedal is guaranteed to be properly built with quality components and tested to be free of defect. That being said your pedal is not guaranteed if damaged through misuse, accidental or otherwise. Built By Abel reserves the right to determine what constitutes misuse of the pedal including powering pedals with unapproved power sources. Only the footswitches are to be stepped on, *do not* use your foot to turn dials or throw toggles. If you should have any issue with your pedal do not hesitate to contact [BuiltByAbel@live.com](mailto:BuiltByAbel@live.com) for support.