Phoenix Setup #2

Volume Control Setup

Switches
S1 – ON, This should create a spikier wave shape at the detector D1 to drive the 555.
S2 – ON, TRS Jack shares as a stereo signal to the input jack on your computer. Off is mono.
S3 – Off, so no interference is added to the live audio passing through the volume board.
S4 - Reverses signal direction that drives the 555, use the side that you like best.

L1 & L2 Terminals, Add a 47pf cap to each to lower the frequency from interfering with Pitch Board oscillators. Maybe around 750 kHz   If permanent do not mount the Terminals.

LED-1 Green, ON when the sound is not fully Muted and passing through the Vactrol.
LED-2 Red, this is on when it detects a heterodyned signal, it could be above human hearing.

Sound can be taken from **RCA –Out** or the **TRS Breakout Jack /** S2 – Off, left side of LDR

The best way to pass **sound & power** from the Pitch Board is through the **J2** TRS jack at the top of the board using a short 3.5mm TRS cable. Power only one board directly.

CV or Control Voltage Output

Same as above except take your 0 to 5 volt signal from the 3.5mm Out-2 TS Jack on the far right. The Green LED terminal should be left empty, disconnected from the Vactrol. Red LED will turning on will indicate when the control voltage is beginning to rise.

Proximity Volume Control

The same as Volume Control above
Switch
S2 ON, This will use a Breakout cable plugged into the 3.5 mm TRS jack on the left side of LDR
You can magically control any instruments volume to amplifier by the distance of your hand.

Pitch Control Setup

Switches
S1 – Off, for the best Vocal waveform.
S2 – ON, if TRS Jack is to deliver stereo into the TRS jack on your computer.
     Off is a mono signal into your main amplifier. TS not TRS
S3 – ON, so no interference is added to the live audio passing through the volume board.
S4 - Reverses signal, not important on the Pitch board.

L1 & L2 Terminals, oscillator section if mounted leave empty so frequency is at 900 kHz

LED-1 Green, ON when the sound is not fully Muted and passing through the Vactrol to the Amp.
LED-2 Red, this is ON when it detects a heterodyned signal, it could be above human hearing.

Pitch Only - Audio can be taken from Jack **RCA –1 /** S3-ON or the **TRS Breakout /** S3-ON, S2 – Off - Mono, S2-On - Stereo

The best way to pass **sound & power** to the Volume Board is through the **J2** TRS jack at the top of the board using a short 3.5mm TRS cable. Feed power to only one board externally.

Terminals (Blue)

Jacks TRS