

Vision Wah Set-up

If the Vision Wah will not turn on and off this is almost certainly due to the switch pressure not being set up correctly. It was slightly temperature dependent in early models but the temperature tracking issue has been eliminated in the latest versions. So please set the pressure first and don't touch anything else before you do this.
Equipment Needed: Digital Multimeter 3.5 digits.

Electronic Method to Set Switch Pressure:

Measure voltage at **POINT B (pin 5, IC2)** and then adjust the voltage at **POINT C (pin 6, IC2)** to be equal within 2mV or so by the switch multi-turn preset. This adjustment will roughly set the switch to a starting position. Find out whether the switch works by checking out the LED and adjust the preset until the desired pressure is obtained. If the LED does not change turn counter clockwise until switch action occurs. You will notice that as the rubber end stop is compressed the voltage at point B will change. The preset adjusts the fixed voltage to which the pedal voltage is compared and hence the triggered switch action. So it is really important not to change the coil tune voltage once it is set or all will be lost and you must begin again the whole electronic set-up.

Manual Method for setting Switch Pressure: Turn the multi-turn preset 5 turns anti-clockwise to see if switching occurs. Then return to starting position by 5 turns clockwise and then another 5 turns clockwise. If no switching occurs with 5 turns each way of starting position increase the range to 8 turns each way. If you still have no luck please follow full set-up procedure.

Preliminary Inspection: Remove bottom cover. Set proximity coil sensor level with the surface of the casting by adjusting the 3 levelling screws on the PC Card.

Check that the 2 mounting screws with rubber washers are in fact holding the coil assembly card firmly to the casting as any movement will affect the switch action and wah sweep as all angular information comes from this sensor. The rubber washers are used to provide firm pressure through the 3 levelling screws so the PC Card assembly can be set level.

Check that the pedal is operating smoothly with the desired feel and adjust feel with the 4 screws located on the nylon vari-friction bearing.

Electronic Set-up and adjustments:

Proximity Coil Tune: Turn the pedal upside down so the PC Card faces upwards and the pedal is in the fully down position or fully towards the front. Slowly adjust the preset marked **TUNE** whilst monitoring the voltage at **POINT A (pin 1, IC1)**. The voltage will achieve a peak then fall again. Set to the peak value. This voltage should be between 1.95 to 2.25V. Once this voltage is set **DO NOT TOUCH TUNE PRESET AGAIN.**

Range Preset: (Only in early versions)

Early versions had a range preset which should be turned fully clockwise for maximum wah range (i.e.: wah frequency sweep). Later version had the range set internally to max.

Bias Preset:

Adjust so that voltage at **POINT D (pin 9, IC1)** is 0.95V. The effect of changing this voltage is to effect the low frequency smoothness of pedal sweep and can be adjusted to give different types of progressive sweeps.

Important:

The **Range** and **Bias** presets are both slightly interactive so if you change one expect to have to adjust the other. They do not have any effect on the switch and tune presets.

The **Tune** preset must be set before the **Switch pressure** set as these two are highly interactive.

All the control circuitry operates from an internal regulated 5V supply so power supply voltage has no effect on the settings.

