

The BoardWeevil combines a chaotic Weevil sound source with a powerful Resonant Filter.

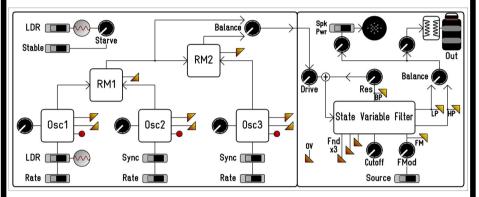
On the left-hand-side is the Weevil Heart which takes three simple Square-Wave Oscillators and combines them through two quasi Ring-Modulators - Power Starvation & Body Contacts send this lo-fi circuitry loopy!

On the right is the Filtration, built around a State-Variable Filter core with Resonance up to self-oscillation.

The Filter output can be swept from Low-pass to High-pass and Cutoff Frequency modulated by any of the 3 Oscillators.

Further Body Contacts allow you to jump signals from Weevil to Filter, even with the Input Drive turned down.

Sonic Output is via an isolated 1/4" Mono Jack or an onboard Mini-Speaker, each with independent Level control.



Oscs - Each Oscillator has a Pitch dial and a 3-way Rate switch to set the range (Lo/Mid/Hi).
Osc1 has a switchable LDR Light Sensor which gives low pitch in the dark & high pitch in the light (turn down Osc1 Pitch Dial)
Oscs 2 & 3 can be Syncronised from either of the other oscillators respectively.
The Oscs are combined via the two Ring-Modulators with a Balance dial to sweep between the outputs.
Each Osc has two Body Contact points, along with one for each Ring Mod.

Power Starve - The Starve dial effects the Oscs and RingMod, simulating the battery running out of juice and resulting in unpredicatble sonic mayhems. A Stable switch can be activated to add a smoothing capacitor over the starved power-lines, resulting in a more droopy Starve behaviour. The Starve LDR Light Sensor allows the Starvation to be light controlled in a similar manner to the Osc1 LDR (again, turn down Starve Control)

Filter - The State-Variable Filter tames & tonifies the harsh Weevil sounds. The Cutoff Frequency can be swept over the full audio range and modulated from one of the three Oscs via the FMod dial & source switch. Resonance can be turned up to self-oscillation and the output is sweepable from Low-Pass to High-Pass response. The Weevil source into the Filter can be turned down via the Drive control so that sounds can be pumped in through the Filter Node (FND) Body Contact points.

Outputs - The two outputs are independent, each with their own Level control. The 1/4" Mono Output Jack passes through a transformer, electronically isolating the circuitry from the outside world. The onboard Mini-Speaker gives a naturally different audio response and offers true sonic portability.

Notes - Though the underside circuitry is exposed, you are advised only to use the topside Body Contact points as these feature fixed resistors to provide current limiting protection.

The BoardWeevil should only ever be powered from a standard PP3 9V battery.

Guarantee - The BoardWeevil comes with a 1 year 'reasonable' warranty. If any mechanical or electronic failure occurs within the period, I will repair the fault free of charge. This excludes failure from maltreatment or modification and any cosmetic degradation. Contact should first be made via email to discuss the problem. Shipping to return the device is paid by the user and I cover return shipping. Failures that are not covered by this guarantee may be fixed at standard rates.

Enjoy! Tom Bugs - December 2015 tom@bugbrand.co.uk - www.bugbrand.co.uk