

## 'On the Run' Melody



Sequencer CV

Audio Out

Green dots show approximate pot and switch positions. Those with two dots show the range I adjust them during the video. Pots and switches that do not have green dots are not used in this patch, and should be left at their zero or off positions.

**SONIC XV:** This gets us fairly close to the Synthi's sound, as it shares some lineage from the original diode ladder VCF. I use both 24dB, as the original Synthi filter was 24dB, but also the 6dB output, because in 24dB it is easier to send the filter into self-oscillation when using high resonance, and this sound really benefits from a lot of it. The 6dB can achieve a more noticeable degree of resonance before self-oscillation occurs. It is subjective, and both have their character and strengths, so experiment!

**MUTING MIXER or CASCADED VCA:** You could also use the Discrete Cascaded VCA for this patch, keeping the Master level high and increasing the Input level until sufficient output volume is achieved. The only reason I used the Muting Mixer here was so I could easily switch between the audio from both 6dB and 24dB outputs of the SONIC XV. If you are using the MUTING MIXER be careful about enabling both inputs at the same time, it will result in an increase in volume, as you are adding audio levels (dB) to each other. It can be very musically useful to do so of course, and worth experimenting with, but bear in mind your overall output level.

Modules used from top-left to bottom-right: Dual LFO + VCA, Vintage Transistor Core VCO, Sonic XV Diode Ladder Wave Filter, Muting Mixer & VCA.