# Andrew Shaw latest Kraftwerk cover : Tribal / Nummweltverschmutzung

Another incredible piece of work by Andrew Shaw.

As in all of his tracks, Andrew has put together a perfect cover of a Kraftwerk song, here: Tribal / Nummweltverschmutzung.

Beyond his numerous musician skills, Andrew is also a **meister** in taming the Votrax SC-02 chip included in the Robovox.

In this track, the chip_capabilities are pushed to the max, so I had to ask Andrew how he did it. I wanted to know if he used the external carrier audio input to achieve these results.

He did not.

He is pitching the chip and heavily modifying the staccato function in the PEC VST plugin :

## Robovox PEC VST plugin

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He also used **CC3 to drive the control rate** ( movement of the formant position – see the SC-02 datasheet) at near its max value to make it sound more choppy.

## Votrax SC-02 Datasheet

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Here’s a picture of just some of the automation done in Reaper,  **driving the note pitch (CC2) and the master clock (CC1)**

**Andrew kindly shared the Votrax MIDI file** so you can download it and test it on your Robovox

Andrew supposes that there are a few parts for this where Florian presumably used two chips at different pitches.

Andrew had to work around this by recording the Votrax through a harmonizer – it won’t be quite the same with this “simpler” midi file.
(I just played it on my system : it is still very fun and impressive)

MID

## Tribal Nummweltverschmutzung

1 file(s) 27.72 KB
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