SUPERCRITICAL
SYNTHESIZERS

ROUTING - You can use the Neutron Flux in stereo operation unless the pole setting is connected in **SERIES** (usually when one of the pole LEDs is red) In this case only the Left input is connected and the resulting output is on the right output. The left output taps the signal between the filter cores. Try to mix them!
HAVE AN IDEA FOR A FILTER MODE? Shout us an email if you have an idea what the NF could do and we'll try if we can make a character out of it!

GREEN BANK - Vintage analog bliss

FAT - *A thick east coast character. Ladder.*

Bandpass in the middle of the Mode pot.
2 Pole - A 2 Pole ladder.
4 Pole - The 4 pole ladder. A classic.
1 Pole - The 2 pole ladder, without resonance enabled in the left channel
3 Pole - The 4 pole ladder, without resonance enabled in the left channel
6 Pole - **SERIES** A steeper ladder.
8 Pole - **SERIES** Two 4 pole ladders chained.

CRISP - *Creamy and crispy. State variable.*

2 Pole - A 2 Pole SVF. Notch in the middle of the Mode pot.
4 Pole - A 4 Pole SVF. Notch in the middle of the Mode pot.
1 Pole - A 2 Pole SVF. Bandpass in the middle of the Mode pot.
3 Pole - A 4 Pole SVF. Bandpass in the middle of the Mode pot.
6 Pole - **SERIES** A steeper SVF.
8 Pole - **SERIES** Two 4 pole SVF's chained.

LIQUID - *A variation of our OTA-ladder. Clean and clear. Spacey!*

Bandpass in the middle of the Mode pot.
2 Pole - A 2 Pole OTA-ladder.
4 Pole - A 4 Pole OTA-ladder.
1 Pole - A 1 Pole OTA-ladder.
3 Pole - A 3 Pole OTA-ladder.
6 Pole - **SERIES** A steeper OTA-ladder.
8 Pole - **SERIES** Two 4 pole OTA-ladders chained.

SOUR - *ACIEEEEED!! Squelchy. Distorting. Also quite liquid.*

Bandpass in the middle of the Mode pot.
2 Pole - A variation of the 3 pole diode-like ladder.
4 Pole - A variation of the 3 pole diode-like ladder.
1 Pole - A variation of the 3 pole diode-like ladder.
3 Pole - A 3 Pole diode-like ladder filter. This is the big cheese.
6 Pole - **SERIES** The 3 pole mode into a flat distorting filter core.
8 Pole - **SERIES** A flat distorting filter core into the 3 pole mode.

MEAN - *Screaming. Unstable. Distorting. Bad times.*

Can't accurately recall what we did on the modes for Mean. You're on your own on this one. Maximum drive yields maximum damage. The 6 and 8 poles are connected in **SERIES**.

YELLOW BANK - Specialist tools

FAT - *Dual band resonators*

Mode controls peak separation, resonance controls relative peak amplitude.
1 Pole - LP resonator
2 Pole - BP resonator
3 Pole - HP resonator
4 Pole - BP resonators, lower Q
6 Pole - **SERIES** Dual 2 pole BP setting with inner drive. Stereo splits the frequencies for a four-band response.
8 Pole - **SERIES** Dual 4 pole BP setting with inner drive. Stereo splits the frequencies for a four-band response.

CRISP - *Chebyshev filters. Usable on FX and pad type patches.*

2 Pole - 4 pole Chebyshev Type II, resonance controls stopband ripple, mode is LP -> HP
4 Pole - 4 pole Chebyshev Type I, resonance controls passband ripple, mode is LP -> HP
6 Pole - **SERIES** 8 pole Chebyshev Type I, resonance controls passband ripple, mode is LP -> HP, stereo control is disabled
8 Pole - **SERIES** 8 pole Chebyshev Type II, resonance controls stopband ripple, mode is LP -> HP, stereo control is disabled

LIQUID - *Phasers!*

Mode controls notch width and low / high emphasis at high reso, resonance adds peaks in addition to notches.
2 Pole - A multi notch phaser.
4 Pole - A variation of the multi notch phaser.
6 Pole - **SERIES** A deeper multi notch phaser.
8 Pole - **SERIES** Extremely deep multi notch phaser.

SOUR - *Distortion modes. Some pole settings have audible effects only when overdriven.*

2 Pole - Flat distortion, reso and mode adjust distortion tone.
4 Pole - Distortion with slight EQ
1 Pole - A variation on flat distortion.
3 Pole - Pultec style low-high-shelf (i.e. slight peaking before and after the shelf), also good for distortion work. Mode adjusts low to high shelf, resonance controls peaking at the shelf edges.
6 Pole - **SERIES** The 3 pole mode into a flat distorting filter core.
8 Pole - **SERIES** A flat distorting filter core into the 3 pole mode.

MEAN - *Oscillators. WARNING, this character is loud.*

Mode controls fine tune, resonance controls the waveshape, stereo can be used to fine tune the channels. Try the left output patched into FM input and adjust stereo control for wild FM. For safety reasons 1 and 3 pole modes do not oscillate unless resonance is turned up. Try them out as filter.

2 pole - Phase oscillator, stereo controls phase difference between channels.
4 pole - Dual oscillator
1 pole - Wide 2 pole lowpass with 2 pole highpass. Resonance controls peaking at band edges. Mode controls frequency difference, narrowest in the middle.
3 pole - Lowpass on left output, highpass on right.
6 pole - **SERIES** Wave folder osc
8 pole - **SERIES** Wave folder osc with a boosted second stage

NEUTRON FLUX
8 Pole **VARIABLE CHARACTER FILTER**
CHARACTER **GUIDE** (Firmware 1.2)