



FDBKSPR650

FEEDBACK SUPPRESSOR NOTCH FILTER / BELL EQ

[RACK EXTENSION]
MANUAL

FX device by Turn2on Software



The quality of amplified sound in a room depends not only on the microphone and loud speakers, but also to a large degree on the acoustical characteristics of the room. Sound is reflected by walls. Various frequencies are reflected in different amounts. Peaks in the frequency response cause a coloration of the original sound. This condition is marked by ringing and feedback.

Ringing is a prolongation of the reverberation time for those frequencies which are approaching unity gain.

Feedback is an oscillation at the frequency where loop gain exceeds unity.

The main ideology of acoustic resonances is improvement of the sound quality, better intelligibility of speech, more sound level through higher gain.

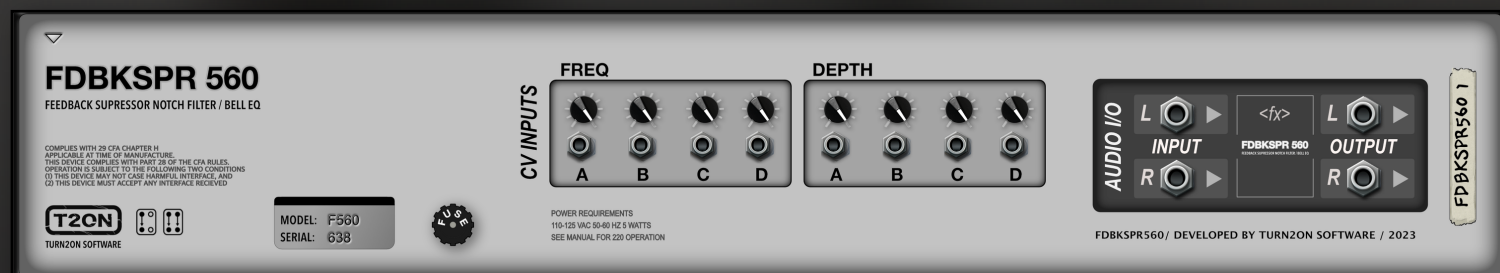
NOTCH FILTER: Effect unit includes four notch bandpass filter sections, which are identical. The filter type is SVF (State-variable filter).

The **FDBKSPR650** effect unit is inspired by the original UREI Feedback Suppressor effect device and includes additional functions, like additional BELL EQ mode.

Feedback Suppressor Notch Filter / Bell EQ can be added to the signal chain to reduce the microphone "proximity" effect and suppress any remaining high Q resonances. Also, one of the main functions is to improve gain before feedback.

Four Notch bandpass filters or four Bell EQ bands help finally to tweak incoming signal to minimize sound coloration, fight with feedback situations, and can fix resonance peaks.

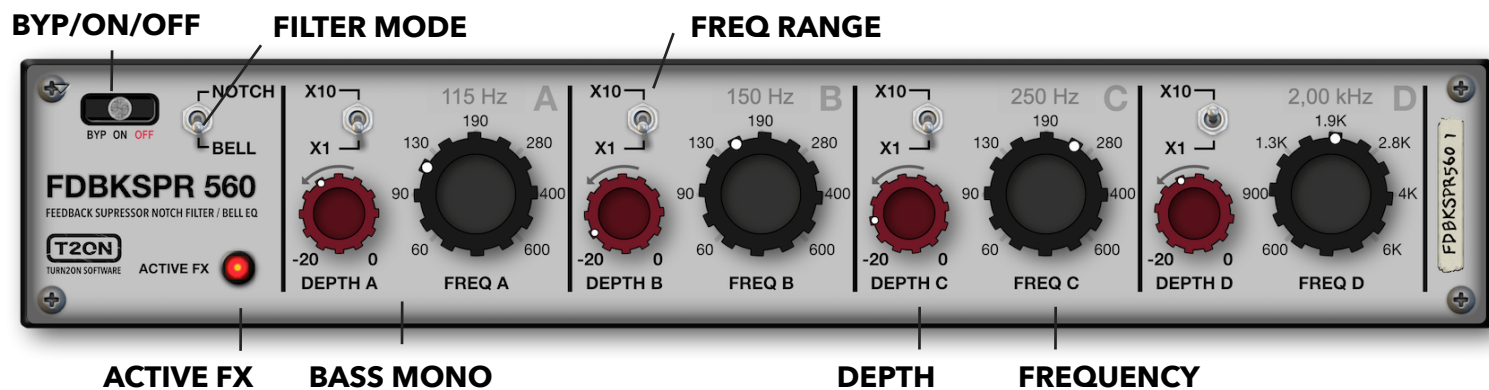
Try **FDBKSPR650** feedback suppressor effect for Reason rack right now.



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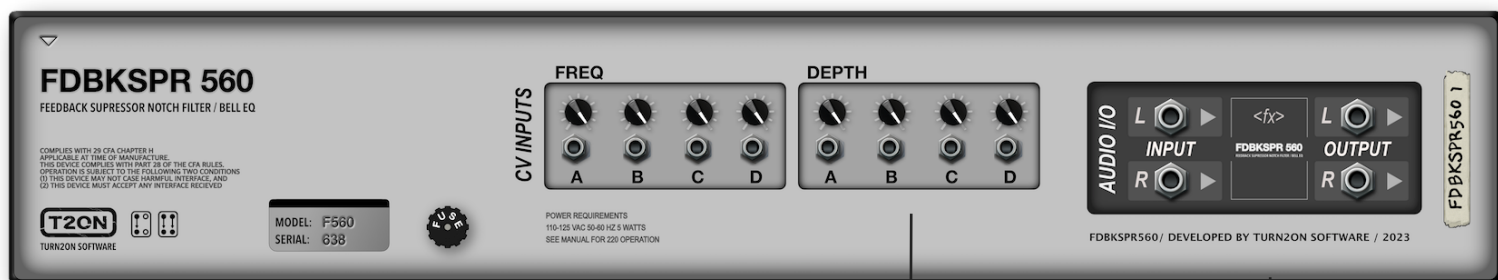
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FRONT PANEL



NAME	DESCRIPTION
FILTER MODE	NOTCH FILTER: State-Variable notch filter (SVF) mode. Original scheme with 4 SVF filters. BELL EQ: Additional mode, each section works as Bell EQ band.
FILTER / BAND FREQUENCY	Sets selected frequency from 60 to 600 Hz or from 600 Hz to 6 kHz for each section individually
DEPTH	Sets selected notch/band frequency cut from 0 up to -20dB
FREQ RANGE	Switches frequency range between X1 and X10 modes for Notch filter or Bell EQ band. X1: Sets frequency range from 60 up to 600 Hz. X10: Sets frequency range from 600 Hz up to 6 kHz
ACTIVE FX	Switches the effect between Active and Soft-Bypass modes. Variation of effect bypass with fade in and fade out that excludes loud peaks when you enable or disable the effect

REAR PANEL



CV INPUTS

AUDIO
INPUT/OUTPUT



AUDIO INPUT/OUTPUT:

Mono or Stereo connections for audio signals.



CV INPUTS

Use these CV inputs to control the main parameters with external CV source curves



SIGNAL ROUTING ICONS

This is a true stereo device



FDBKSPR560

FEEDBACK SUPPRESSOR NOTCH FILTER / BELL EQ

 Reason Studios Add-on Shop



Turn2on

Rack Extension Developer

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Thanks to all beta-testers



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