

FX-Tracker Firmware Upgrade History

Fixes in version 1.1:

- 1) Output volume is boosted.
- 2) Clipping indicator has been improved.
- 3) MIDI expression pedal (effect Type 68) will react to both MIDI CC# 11 and MIDI CC #4.
- 4) Improved MIDI implementation to work better with the editing software.
- 5) Improved the tremolo depth function.
- 6) Improved the tremolo volume envelope.

Fixes in version 1.2:

- 1) Added auto arpeggio patterns to effect numbers 66 and 67.
- 2) Added a new effect number 71 that allows more control of MIDI CC outputs that react to your playing
- 3) Fixed a bug in the threshold setting

Fixes in version 2.0:

- 1) Changed effect 2 to a reverse delay effect.
- 2) Added 17 new MIDI CC output effects listed below.

Effect 71: MIDI Output That Matches Your Playing Speed or Volume

Effect 72: Sine MIDI Output with a Fixed Period

Effect 73: Triangle MIDI Output with a Fixed Period

Effect 74: Square MIDI Output with a Fixed Period

Effect 75: Sine MIDI Output with Period That Depends on Your Playing Speed

Effect 76: Triangle MIDI Output with Period That Depends on Your Playing Speed

Effect 77: Square MIDI Output with Period That Depends on Your Playing Speed

Effect 78: Triggered Triangle MIDI Envelope with Variable Length

Effect 79: Triggered Exponential MIDI Envelope with Variable Length

Effect 80: Triggered Ramp MIDI Envelope with Variable Length

Effect 81: Triggered Triangle MIDI Output with Static Length

Effect 82: Triggered Exponential MIDI Output with Static Length

Effect 83: Triggered Ramp MIDI Output with Static Length

Effect 84: Arpeggiator MIDI Output with a Fixed Period

Effect 85: Arpeggiator MIDI Output with a Fixed Period and Ramp to next Value

Effect 86: Triggered Arpeggiator MIDI Output

Effect 87: Triggered Arpeggiator MIDI Output and Ramp to next Value

Fixes in version 2.1:

- 1) There was a math error in the DSP code that has been fixed. The symptoms of this error included:
 - A. Multiple delays with feedback did not completely fade away. There was a very small amount of sound remaining in some cases.
 - B. For various effects, it caused a very small amount of zero-crossing distortion.
- 2) Effect number 65 was improved so that it reacts better to your playing volume changes.