

LEGEND **BLUEFACE** SERIES



AUTOFLNGR

AUTO FLANGER BLUEFACE SERIES

[RACK EXTENSION]
MANUAL



FX device by Turn2on Software



The Sound of "Chewy" Analog Dynamics.

AutoFlngr, a deep circuit emulation combining two of the most revered analog flanging designs from the 1970s into a single, dynamic flanger device.

At its heart, **AutoFlngr** is not just a static LFO flanger. It features the rare rack mount **MXR M111 AutoFlanger** with envelope detection circuit. This means the flanging effect is "played" by your instrument. The intensity and speed of the sweep react dynamically to how hard or soft signal is played.

Whether you need the subtle, vocal-like, doubling textures of the M111, or the deep, sweeping jet-engine roar of the modern classic **M117 Flanger** pedal, **AutoFlngr** delivers authentic analog warmth, complete with the necessary pre-emphasis/de-emphasis circuitry for a high-fidelity signal path with vintage character.

Forget sterile, algorithmic flangers.

AutoFlngr breathes. It puts the "performance" back into the effect, reacting to the nuances of your guitar, synth, or drum loops in real-time.

- **Dynamic Envelope Detection:** The flanger sweep is controlled by the incoming audio signal's dynamics (the "Auto" mode), inspired on the vintage M111 rack unit.

- **Dual Analog Circuitry:** Switch instantly between the subtle range of the **M111 AutoFlanger** and the dramatic range of the **M117 Flanger** pedal.

- **Vintage Hardware Specs, Modern Control:** Authentic Emphasis/De-emphasis modeling for true analog warmth, combined with full CV connectivity and accessible deep-editing parameters on the rear panel. Here you can find Modulation settings and Env Follower settings.

AutoFlngr is a big chance of touch to the rare classic in flanger processing. Creating AutoFlngr, we were inspired by both classic flanger devices (AutoFlanger rack mount device and modern guitar pedal Flanger). Effects that still sound perfect

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The Story of Flanger devices

AUTOFLNGR

In the late 1970s, MXR released a series of BLUEFACE rack-mount effects.

The **M111 AutoFlnger** was unique because it removed the need for an LFO. Instead, it used an internal envelope follower (based on a full-wave rectifier and an RC filter) to convert the amplitude of the incoming signal into a control voltage that varied the delay time of a Bucket Brigade Device chip. This allowed musicians to create flanging effects that opened up with pick attack or drum hits, offering a much more organic feel than traditional cyclic modulation.

And the **M117** was the classic pedal version, offering intense, manual LFO control over a much wider delay range.

AutoFlngr combines the best aspects of both units. We have the BBD path, the companding (emphasis/de-emphasis) circuits, and the exact time-constants of the M111's envelope follower.

While the original M111 had no controls other than a bypass switch, AutoFlngr opens the hood. We have added the wider range of the **M117**, manual LFO sweeps, Wet/Dry mix, Regeneration control, and full access to the envelope settings on the rear panel, allowing you to push the vintage circuitry into new, uncharted territories while maintaining that classic "chewy" analog tone.

FRONT PANEL



PARAM	DESCRIPTION
MANUAL	Sets the base delay time of the BBD. - Auto Mode (inspired by M111 device): Range is rigidly fixed to 0ms - 2ms for subtle texturing. - 117 Mode (inspired by M117 pedal): Range is up to 12ms for classic, deep flanging.
SWEEP DEPTH	Determines the intensity of the internal LFO modulation applied to the delay time. - Auto Mode: Range 0-2ms (LFO adds to the envelope). - 117 Mode: Range 0-12ms.
SWEEP RATE	Sets the speed of the internal LFO. - Auto Mode: 0.1 Hz to 5 Hz (Slower, vocal-like sweeps). - 117 Mode: 0.1 Hz to 10 Hz (Capable of fast, vibrato-like warbles).
MIX	Blends the dry signal with the wet processed signal. 0% is fully dry, 100% is fully wet.
REGEN	Regeneration/Feedback: Active only in 117 Mode. Feeds the output of the flanger back into its input. Higher values increase resonance and metallic ringing. Limited to not going for the self-oscillation
ENV TRIM	Like a "Sensitivity", envelope follower modulation depth control. If set to "Stock, this control is locked to mimic the fixed calibration of the vintage hardware. When unlocked (Manual) this allows you to attenuate or boost the amount of envelope signal driving the flanger, regardless of mode.
MODE	Toggles between the two circuit models: - BlueFace AutoFlngr: Engages the envelope follower to control sweep up to the 2ms. Regen is disabled (as per original hardware). - M117 (pedal Flanger inspired): Engages the LFO to sweep up to the 12ms. Regen is active.

PARAM	DESCRIPTION
DRY / WET	Sets the levels of the unprocessed dry signal path / processed wet signal.
OUTPUT	The master volume control for the entire device.
BYPASS	FX On / Bypass switch for the effect. Variation of effect bypass with fade in and fade out, that excludes loud peaks when you enable or disable the effect

REAR PANEL CONTROLS



PARAM	DESCRIPTION
ENV FOLLOWER MODE	Determines how the incoming signal is read. - Linear (Default): Replicates the full-wave rectifier of the original M111. Accurate and dynamic. - Log: A logarithmic response, making the envelope more sensitive to quieter signals. - Gate: Acts like a noise gate for the envelope; the flanger only triggers when the signal exceeds the threshold aggressively.
ATTACK	How quickly the flanger reacts to a transient.
RELEASE	How long the flanger "hangs on" after the signal stops.
THRESHOLD	The level the incoming signal must reach to trigger the envelope follower.
MOD PHASE	Changes the phase relationship of the LFO between the Left and Right channels. 0°: Mono flanging. 180° (Default): Wide, stereo "ping-pong" style flanging.
PHASE INVERT	Invert the phase of processed signal
DESTINATION	Selects which parameter is modulated by the Envelope Follower. - Manual (Delay Time - Default): The classic AutoFlanger behavior. - Depth, Rate, Regen, Phase, Mix: Allows you to create wild, dynamic patches where your playing controls LFO speed, feedback amount, or stereo width.

HOW TO USE FLANGER

- 1. Insert AutoFlngr:** Insert the device as an effect onto an Instrument track, an Aux Send, or directly onto an Audio track in the Reason Sequencer.
- 2. Basic Setup:** Set Mix to 50% and Output Level to unity (0dB).
- 3. Select Mode:** For dynamic, touch-sensitive flanging that reacts to your performance, select M111.
 4. For classic, cyclic LFO "jet" flanging, select 117 mode.
 5. Adjusting Auto Mode: Play your instrument. Adjust the Manual knob to find the "sweet spot" of the delay. The harder you play, the more the flanging effect will "open up." If it's not reacting enough, or you need set down reaction, increase/decrease the Envelope Trim.
 6. Adjusting 117 Mode: Set Sweep Depth and Sweep Rate to taste. Adjust Regen to increase the intensity of the effect.
 7. Visit the rear panel to adjust the Attack/Release times of the envelope or change the stereo Phase.

Better to use with

Electric Guitars: The primary use case. Funk rhythms, arpeggios, and sustained chords come alive with dynamic flanging.

Drums & Percussion: Apply to drum loops or individual snare hits in Auto mode for an evolving, gated rhythmic texture.

Synthesizer Pads: Use Auto mode with a slow rate and low depth for classic analog movement.

Electric Pianos (Rhodes/Wurlitzer): Provides a thick, chewy modulation that rivals vintage vibe pedals.

Vocals: Subtle Auto flanging can add a unique doubling effect that sits differently in the mix than a standard chorus.

TIPS & TRICKS

The "Vocal" Trick: In Auto mode, set the Manual control very low and play sustained chords. The resulting effect sounds remarkably like a Talk Box or a sweeping Wah pedal, following the natural decay of the notes.

Stereo Width: Use the Phase control on the back panel. Set to 180° with a low Regen setting in Auto mode to create a massive stereo image that swirls around the listener.

Dynamic Overload: The original AutoFlanger had a specific gain structure hitting the BBD. If you are using AutoFlngr on a very hot signal (like a modern synth patch), it may distort pleasantly. If you want a cleaner sound, lower the Input Gain of the Mix Channel feeding the AutoFlngr.

CV Madness: Patch an LFO from another device into the Regen CV input on the rear panel. Automate the Envelope Trim using a Matrix pattern sequencer to create rhythmic variations in the intensity of the flanger.

Pseudo-Tremolo: Set Mode to Auto, Mix to 100% Wet, and Destination to Mix. As you play louder, the dry signal disappears and only the wet signal remains, creating a unique amplitude modulation effect synchronized to your dynamics.

REAR PANEL



CONNECTORS

- AUDIO I/O

Mono or Stereo connections for audio signals.
- CV INPUTS

Use these CV inputs to control the main parameters by external CV source curves
- SIGNAL ROUTING

TRUE STEREO SPREADING

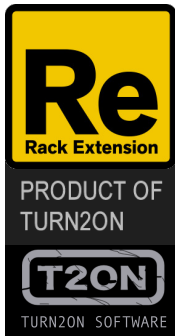
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Reason Studios Add-on Shop



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Thanks to all beta-testers



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