

LEGEND **BLUEFACE** SERIES



AUTOPHASER

AUTO PHASER BLUEFACE SERIES

[RACK EXTENSION]
MANUAL

FX device by Turn2on Software



The Sound of the 1970s, Re-Engineered for Dynamics

Introducing **AutoPhaser**, a dual-mode analog modeling FX device that brings the elusive, syrupy, and dynamic sound of classic 1970s OTA (Operational Transconductance Amplifier) phase shifters to your Reason rack.

AutoPhaser isn't just a static LFO effect. At its core lies a precision inspired by the rare **MXR M110 AutoPhaser**. This unique circuit allows the phaser sweep to be controlled by your playing dynamics. The harder you hit a note, the more the phaser "opens up," providing an organic, touch-sensitive "quack" and swoosh that LFOs simply cannot replicate.

We've expanded this vintage heart with a second mode: the legendary **MXR Phase 45** pedal. Famous for its subtle, warm, two-stage "vocal" thickening, it provides an entirely different flavor of analog mojo.

While we've preserved the exact Emphasis/De-emphasis signal paths and component tolerances

for authentic tone, we've dragged the feature set into the modern era with deep-editing parameters on the rear panel.

Add real analog depth, movement, and "chewiness" to guitars, electric pianos, synth pads, and even drum loops. AutoPhaser breathes with your music.

Dynamic Envelope Detection: the phaser sweep reacts in real-time to your input signal's amplitude (like "Auto" effect).

Dual Vintage Voicings: Instantly switch between the aggressive, dramatic 6-stage swoosh of the original M110 rack effect and the subtle, warm, 2-stage shimmer of the Phase 45 pedal.

Modern Flexibility: Authentic analog signal path combined with modern conveniences like Tempo Sync, Dry/Wet Mix, comprehensive CV inputs, and deep-tweak parameters on the rear panel.

We've combined both units into one device to create complex, evolving modulation that stays musical and organic

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The Story of Phasers

AUTOPHASER

In the 1970s, MXR Innovations, defined the sound of electric guitar and keyboard modulation with their line of rugged, colorful pedals. While the Phase 90 became a legend, its more sophisticated siblings, the M110 AutoPhaser rack device and M101 Phase 45 pedal, offered unique sonic signatures that studio producers prized.

AutoPhaser faithfully recreates the OTA (Operational Transconductance Amplifier) core of these units, including the specific high-pass pre-filter and Emphasis/De-emphasis EQ curves that give them their characteristic bite and warmth.

We've combined both units into one RE and added the controls the originals lacked: Wet/Dry Mix, independent Depth and Rate for the LFO, and modern connectivity. Furthermore, we've implemented the M110's unique operational logic where the LFO and Envelope Follower work simultaneously, summed together to create complex, evolving modulation that stays musical and organic.

FRONT PANEL



PARAM	DESCRIPTION
MODE (AUTO / TH45)	Switch between the core phaser circuit: - AutoPhaser : 6-Stage OTA design. Dramatic, wide swoosh with a percussive attack. - TH45 (Phase 45 pedal style): 2-Stage OTA design. Subtle, warm, vocal-like thickening.
MANUAL	Sets the base frequency around which the All-Pass Filters operate (100Hz - 10kHz or 100 Hz - 1000 Hz). This also determines the "center" of the sweep.
SWEEP DEPTH	Determines the intensity of the internal LFO modulation applied.
SWEEP RATE / SWEEP BEATS	Sets the speed of the internal LFO. - Free Hz Mode: 0.1 Hz to 10 Hz. - Synced Beats mode: 8/4 to 1/64D.
SYNC	Toggles the Sweep Rate between free-running Hz and Tempo-Synced musical values (e.g., 1/4, 1/8, etc).
MIX	Blends the dry input signal with the wet phased signal. 0% is fully dry, 100% is fully wet.
PHASE (LFO OFFSET)	Active only in Manual Mode. Adjusts the phase offset of the LFO wave (0° - 360°). Useful for creating stereo width effects when routed creatively.
ENV FOLLOWER MODES	Stock (Default): Locks the Envelope Trim to the fixed calibration in style of the vintage hardware. Manual: Enables the front panel Envelope Trim knob for user control.
ENV TRIM	Active only in Manual Mode. Acts as the sensitivity control for the Envelope Follower, determining how much your playing dynamics affect the phase
INPUT, OUTPUT levels	Sets the gain staging entering and exiting the 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 hardware. 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 phaser only triggers when the signal exceeds the threshold aggressively.
ATTACK	Set the ballistics of the envelope follower to form the signal attack time. Fast attack (low ms) makes the phaser snap open on hits
RELEASE	Set the ballistics of the envelope follower to form the signal release time. Slow release creates a long, smooth decay
THRESHOLD	The level the incoming signal must reach to trigger the envelope follower.
ANALOG HISS	Adds a very low-level modeled analog noise floor for vintage authenticity when desired. Keep at 0% for pristine modern mixes.
PHASE INVERT	Flips the polarity of the envelope. Instead of sweeping up in frequency when you play louder, it will sweep down.
DESTINATION	Selects which parameter is modulated by the Envelope Follower. - Manual (Delay Time - Default): The classic AutoFlinger 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

- 1. Insert AutoFlngr:** Place it after an instrument (guitar, synth, E.P.) or on an FX send.
- 2. Basic Setup:** Start with Mix at 50%, Mode set to AutoMode, Sweep Depth at 50%, and Sweep Rate slow (approx 0.9 Hz).
- 3. Engage the "Auto" Effect:**
 - By default, the device is in "Stock" mode, meaning the Envelope Trim is internally fixed for authenticity. Play your instrument harder. You should hear the phaser "jump" or "quack" on the transients.
 - For adjustable control, set Env. Follower mode to Manual. Now, use the front panel Envelope Trim knob to set the intensity of this dynamic response.
- 4. Select Voicing:** Flip the Mode switch to TH45 (Phase 45 pedal-style mode) for a subtler, warmer, more syrupy phase effect that sits deeper in the mix. Note that TH45 mode has internally fixed lower depths and slower default rates to match the vintage hardware.
- 5. Tweak:** Use Sync for tempo-locked rhythmic pulsing, or adjust the Manual knob to find the perfect frequency range for the effect to "sit."

TIPS & TRICKS

The AutoPhase "Quack": In Auto mode, set Mix to 50%, Sweep Depth (LFO) to 0%, and use the Envelope Follower (Stock or Manual mode) to control Manual knob. Play staccato funk guitar or percussive synth lines to get a percussive, envelope-controlled filter "quack" that is distinct from a standard auto-wah.

Phase 45 Pad Thickness: In TH45 mode, use a very slow Sweep Rate and high Sweep Depth. Set Mix to about 40%. Play sustained pads or Rhodes chords for a thick, chewy, slow-motion swirl that doesn't get glassy or harsh.

Stereo Width: Set Env. Follower Destination to Phase. Send a fast, rhythmic CV signal (like a gated LFO or Matrix pattern) into the Phase CV input on the rear panel. This will make the LFO center point jump around in the stereo field in sync with your track.

The "Cocked" Phaser: Set Sweep Depth (LFO) to 0% and Env. Follower Mode to Stock (or Manual with Trim at 0). Now use the front panel Manual knob to find a static, hollow "cocked wah" tone that sits perfectly in a dense mix.

CV Overdose: Patch the output of the RPG-8 Arpeggiator CV out into the Rate CV input. Set AutoPhaser to TH45 mode, Sync to ON, and play chords. The arpeggiator will now control the speed of the phaser swoosh rhythmically as it plays notes.

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

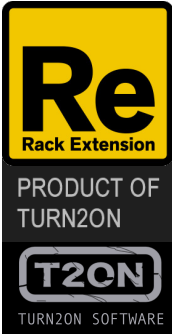
TRUE STEREO SPREADING



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Reason Studios Add-on Shop



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Rack Extension Developer

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Thanks to all beta-testers



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