

## SCI-FI FLANGER

Alien mojo meets military tech, circa 1958. The F.13 Neo is our take on space junk stolen from Area 51 and put into the service of rock 'n' roll.

Equal parts science, art, weapon and instrument, the F.13 Neo generates interplanetary flange never heard in this galaxy or any other.

The sonic scientists at Alexander Pedals have been working overtime to cram the most pedal into the smallest box, and we now present the Neo Series! Each Neo Series pedal incorporates an advanced 32-bit microcontroller adding presets, expression, and MIDI capability.

**NEO  
SERIES**

### GETTING TO KNOW YOUR NEO

USB Mini-B  
MIDI or firmware update

DC 9V  
80mA, center negative

MultiJack  
Expression, Footswitch, or MIDI

Output  
Stereo output on ring



Select Button  
Hold to access ALT knobs

Input  
Instrument or line level

Foot Switch  
Tap to bypass, hold for next preset

### CONTROLS

**Rate (ALT1):** Controls the speed of the flanger low-frequency oscillator. In DYNA mode, this knob controls the sensitivity of the envelope detector. Hold the Select button and turn this knob to set the ALT1 parameter, which varies by effect mode.

**Dept (ALT2):** Controls the level of the flanger's low-frequency oscillator. In DYNA mode, this knob controls the direction and maximum sweep of the flanger. Hold the Select button and turn this knob to set the ALT2 parameter, which varies by effect mode.

**Mix (Volume):** Controls the amount of effected signal. Turn fully clockwise to "kill" the dry signal. Hold the select button and turn this knob to set the Volume of both wet and dry signals.

**Regen:** Adjusts the amount of flanged signal that is fed back into the flanger. Center this control for no regeneration, or rotate it away from the center for more regeneration. Counter-clockwise adds negative regeneration, clockwise adds positive regeneration.

### EFFECT MODES

Tap the Select Button to move to the next mode.

**Auto:** Traditional flanging sounds live here. The rate and depth knobs adjust the F.13N's hypertriangular oscillator, which drives the flanger delay line. Set the Rate knob at zero for manual flanging, the Depth knob adjusts the flanger with no sweep for classic "filter matrix" tones. ALT1 controls the delay time of the flanger, sometimes also called "manual." The maximum flanger sweep is found with ALT1 at minimum settings.

**Step:** This mode replaces the smooth sweep of the Auto mode with a jagged and gnarly stepped pattern generator. Adjust ALT1 to select the flanger pattern from the following:



**Dyna:** This one is kind of unusual, even for us! The flanger delay time is set by the volume of the input signal. The Rate knob adjusts the sensitivity, to allow for different pickups or effects before the F.13 Neo. The Depth knob controls which direction the flanger will sweep when it hears the input signal. The F.13 Neo now features an envelope speed control on the ALT1 knob. Set this to the fastest speed for a more excentrifugal experienz. Don't say we didn't warn you.

**Echo:** This one is for all you radio friendly unit shifters out there looking to become the genius of love. We couple a fierce flanger with an exceptional echo for a very interesting take on time delay effects. The ALT1 and ALT2 knobs control the delay time and feedback of the echo, while the Rate, Depth, and Regen knobs control the flanger side. You can set either side to a very short delay for maximum comb filtering, or you can create spiraling soundscapes.

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## CONFIGURING YOUR NEO PEDAL

Power on the pedal while holding the Select button to enter configuration mode. Release the button when the main LED turns violet.

Tap the Select button to choose the MultiJack function. The upper program LED will change colors to indicate the function. Green = Expression Pedal, Orange = Foot Switch, Red = MIDI

Connect a MIDI controller to the EXP port and send a program change to set the Neo Pedal's MIDI channel.

Turn the lower left knob to set the Ramp Morph speed. The lower program LED will change colors to indicate the speed setting. Green = slow, Orange = medium, Red = fast.

Turn the lower right knob to set the main LED brightness.

Hold the Select button to save the configuration and exit.

## BYPASS AND PRESETS

Tap the foot switch to toggle the pedal between bypass and active. The bypass signal is buffered and 100% analog. The dry signal path is routed through the DSP to maintain time and phase alignment with the effect signal.

Hold the bypass footswitch to move to the next preset. The Neo Series pedals have 16 presets, four of which are accessible on the pedal itself. The main LED will blink one, two, three, or four times to indicate the current preset.

Hold the select button down, then hold the footswitch down to save. The pedal will save the current settings to the active preset. The main LED will blink to indicate the preset has been saved.

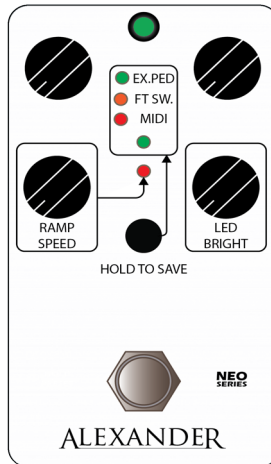
## EXPRESSION AND RAMP MORPH

The Neo Series feature a comprehensive expression control setup. Connect an expression pedal to the Neo pedal MultiJack (red) and sweep its treadle until the heel is down. Turn the knobs to your desired setting. Now sweep the expression pedal until its toe is down, and turn the Neo pedal's knobs to a new setting. You should now be able to sweep the expression pedal and hear the change in the Neo pedal! Please note that the Neo pedal's physical knobs won't move when you sweep the expression pedal but the pedal settings will change internally. The main LED will fade in and out to indicate the expression pedal position.

If you set up the EXP port on the Neo pedal for use with a foot switch, you can use it in the same way as the expression pedal. Tap the foot switch to make the Neo pedal Ramp down, then tap again to Ramp up. You can adjust the knob positions at these two settings and the Neo pedal will ramp between them at the speed you selected in setup. Neat!

If you prefer to use MIDI commands to control your pedal, both Expression and Ramp are accessible using MIDI continuous controller (CC) messages. Please consult the MIDI Control section for more details.

Please note that both the main AND alternate knob functions may be controlled by the expression or ramp controls!



## MIDI CONTROL

Connect a compatible MIDI controller to the Neo pedal to access its full feature set!

The Neo pedal can accept MIDI over USB from a computer or mobile device, or from a MIDI controller using a 1/4" cable. The Neo pedals are compatible with interface converters made by Disaster Area Designs and Empress.

The following commands are accepted by the Neo pedal:

### MIDI Program Change: Load Presets 0-15

0-3 are the four Red presets on the pedal itself.  
4-7 are the Green bank  
8-11 are the Blue bank  
12-15 are the White bank

### MIDI Continuous Controller 93: Tap Tempo

(supported pedals only)

### MIDI Continuous Controller 97: Ramp

Send value 1-8 to set the ramp speed  
Send any other value to trigger the ramp

### MIDI Continuous Controller 100: Expression Pedal

Value 0 = Heel down, Value 127 = toe down

### MIDI Continuous Controller 102: Bypass

Value 0-63 = Bypass, Value 64-127 = Engage

### MIDI Continuous Controller 50-57: Pedal Knobs

Value 0 = CCW, Value 127 = CW

CC 50 = Lower right main	CC 54 = Lower right alt
CC 51 = Upper left main	CC 55 = Upper left alt
CC 52 = Upper right main	CC 56 = Upper right alt
CC 53 = Lower left main	CC 57 = Lower left alt

### MIDI Continuous Controller 59: Mode Select

Accepts values 0-7 to select modes 1-8.  
(Not all Neo pedals support the full 8 modes.)

### MIDI Channel Assignment:

Set the Neo pedal to Config mode by holding Select at boot, then send a MIDI program change on your desired MIDI channel to set the Neo pedal's MIDI channel. Hold the Select button to save the MIDI channel assignment.

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