

# *Aurora*

ANALOG FLANGER

## User Manual





The Aurora is an analog BBD flanger with a focus on sound quality and flexibility. Exploring the controls of the Aurora will reward the user with several shades of flange, vibatro, chorus, phase, and filtery spatial effects. Setting the Aurora apart from the pack is not just the inclusion of creature comfort controls, like dedicated VOLUME and MIX, but also five distinct modes of modulation ranging from classic to experimental. Plug in and slip into the ephemeral night. Let your imagination coast across the neon sky.

**VOLUME** - Unity gain is roughly at noon, and a moderate boost of 6dB is possible at maximum.

**MIX** - Full control over wet/dry blend. This dramatically increases the utility of the Aurora by opening up subtler and more extreme tones.

**REGEN** - The staple jet sound maker. This control feeds a portion of the output signal back into the input for exaggerated resonant, robotic, or swooshy effects.

**MODE** - Five modulation modes are available: LFO 1, TAPE 1, LFO 2, TAPE 2, and COMB; each with their own unique attributes. See the tables for a more in depth coverage of each mode.

**WIDTH** - This is the main depth control of the modulation. It sets how wide the sweep is by controlling how much of the total delay time is modulated.

**RATE** • ↑ - Controls the speed of the modulation in LFO 1 & TAPE 1 modes. In LFO 2 & TAPE 2 modes it controls the RISE time. Sets the static delay time in COMB filter mode.

**RANGE** • ↓ - Controls which portion of the delay time is modulated in LFO 1 & TAPE 1 modes. In LFO 2 & TAPE 2 modes it controls the FALL time of the modulation. Sets a secondary static delay time in COMB filter mode.

**TRIG** Footswitch - Multi-function footswitch for use with the modulation bus. See the tables for a more in depth coverage of its usage in each mode.

**BYPASS** Footswitch - True-bypass soft-touch relay switching to engage and disengage the effect.

The Aurora requires external power of 9V DC, negative center (⚡⚡) via the 2.1mm jack. The Aurora has a high 1M ohm input impedance and a maximum current draw of 58mA when the effect is engaged. Please contact Spaceman if you are unsure about your DC adapter.

For user guides and recommended settings visit [spacemaneffects.com/aurora](http://spacemaneffects.com/aurora)  
All Spaceman pedals are covered by a Limited Lifetime Warranty.



## Modulation Bus

The Aurora is capable of multiple types of modulation. Here is an in-depth description of the functionality of each mode.



# Aurora Modulation Bus

## LFO 1 – Classic Flange/Chorus/Vibrato

(triangle waveshape)

This works just like traditional flanger pedals. The RANGE control functions like a Manual or Delay time control, the only difference is that it is always active while on most flangers, it is only active when width is not set at max. This is the best mode for dialing in phase/chorus sounds using the WIDTH and RANGE knobs.

<b>TRIG Footswitch</b>	Tap: Reset LFO to bottom of sweep Hold: Reset and hold LFO off at bottom of sweep
<b>RATE • ↑</b>	Speed of the LFO modulation
<b>RANGE • ↓</b>	How high the modulation sweeps
<b>WIDTH</b>	How wide the sweep is (how low it goes)

## TAPE 1 – Tape mode using the control layout of LFO 1

(triangle waveshape)

This mimics the action of putting your finger on the tape flange to create the classic tape deck flange effect. The sweep has symmetrical RISE & FALL with variable RANGE (height).

<b>TRIG Footswitch</b>	Hold: Sweep rises at the speed set by the Speed knob Release: Sweep falls at the speed set by the Speed knob
<b>RATE • ↑</b>	Rise and Fall speed of the modulation
<b>RANGE • ↓</b>	How high the modulation sweeps
<b>WIDTH</b>	How wide the sweep is (how low it goes)

## COMB - Comb filter mode

(static filtering/no sweep)

This emulates a fixed comb filtering effect by utilizing a short non-swept variable delay time. This Haas Effect can thicken and add dimension to your sound. REGEN will make it very metallic and intense.

<b>TRIG Footswitch</b>	Tap: Toggles between the RATE & RANGE filter settings
<b>RATE • ↑</b>	Sets the Frequency of the filter effect (fixed delay time # 1)
<b>RANGE • ↓</b>	Sets the Frequency of the filter effect (fixed delay time # 2)
<b>WIDTH</b>	Fine control of the filter frequency



## Technical Specifications

<b>Width:</b>	3.68 inches / 93.5 mm
<b>Depth:</b>	4.73 inches / 120 mm
<b>Height:</b>	2.25 inches / 57 mm
<b>Weight:</b>	14.6 ounces
<b>Input Resistance:</b>	1M Ohm
<b>Bypass Current Draw:</b>	24mA
<b>Engaged Current Draw:</b>	58mA
<b>Input Voltage:</b>	9-12V DC, negative center via the 2.1mm jack

Please contact Spaceman if you are unsure about your DC adapter.

# Aurora Modulation Bus

## LFO 2 - Flange/Chorus/Vibrato - variable rise & fall times (triangle/ramp up/ramp down waveshape)

This works like LFO 1, except you get control over RISE & FALL times separately. The RATE & RANGE controls have an effect on the speed AND waveshape of the modulation.

<b>TRIG Footswitch</b>	Tap: Reset LFO to bottom of sweep Hold: Reset and hold LFO off at bottom of sweep
<b>RATE • ↑</b>	Rise speed of the modulation
<b>RANGE • ↓</b>	Fall speed of the modulation
<b>WIDTH</b>	How wide the sweep is (how low it goes)

## TAPE 2 - Tape mode using the control layout of LFO 2 (triangle/ramp up/ramp down waveshape)

This mimics the action of putting your finger on the tape flange to create the classic tape deck flange effect. The sweep has user controllable RISE & FALL speeds with RANGE (height) fixed at maximum.

<b>TRIG Footswitch</b>	Hold: Sweep rises at the speed set by the Speed knob Release: Sweep falls at the speed set by the Range knob
<b>RATE • ↑</b>	Rise speed of the modulation
<b>RANGE • ↓</b>	Fall speed of the modulation
<b>WIDTH</b>	How wide the sweep is (how low it goes)



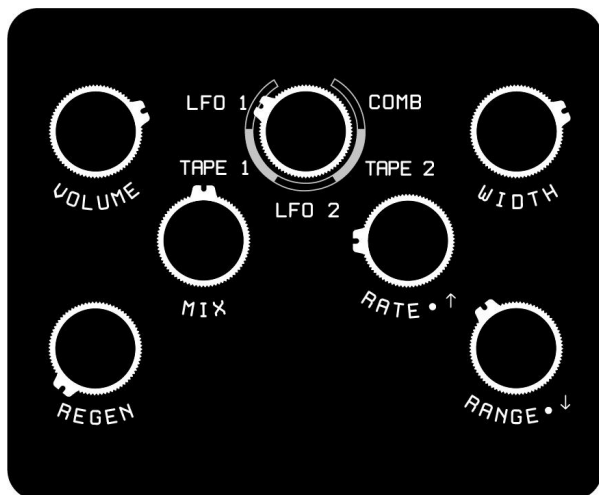
## Suggested Settings

On the following pages you'll find a collection of carefully crafted settings to get your started on your journey.

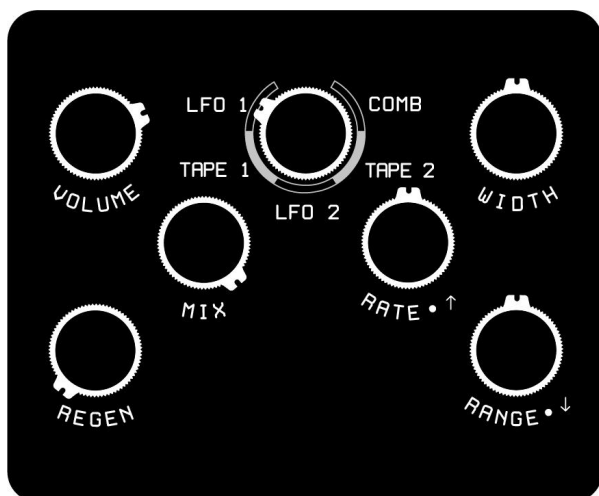




# Aurora Suggested Settings

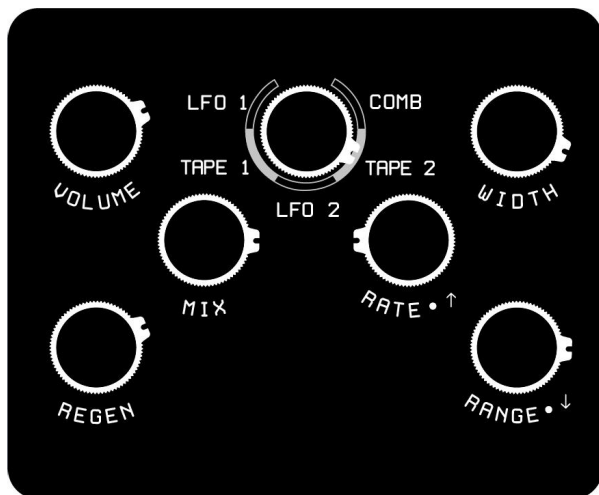


## Chorus

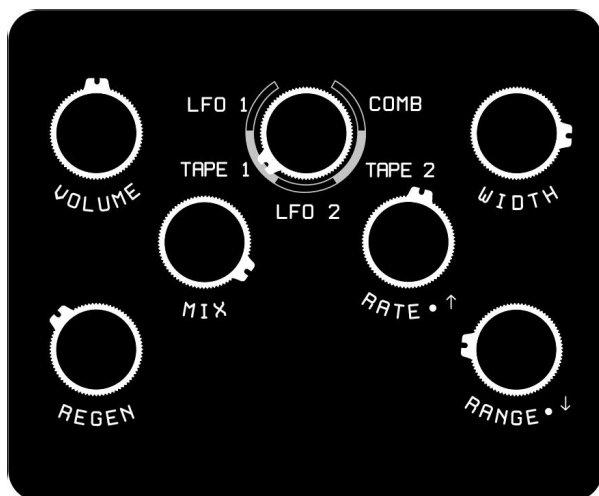


## Vibrato

# Aurora Suggested Settings

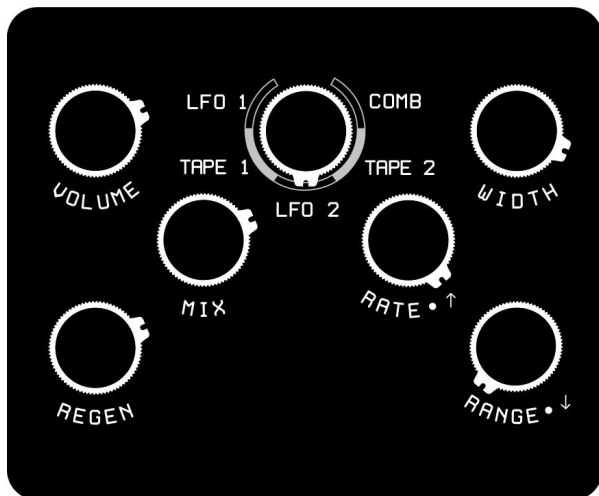


## Slow Tape Flange

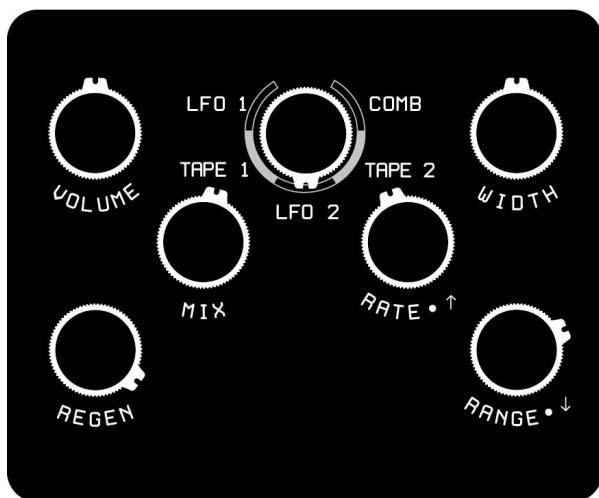


## Thicc

# Aurora Suggested Settings

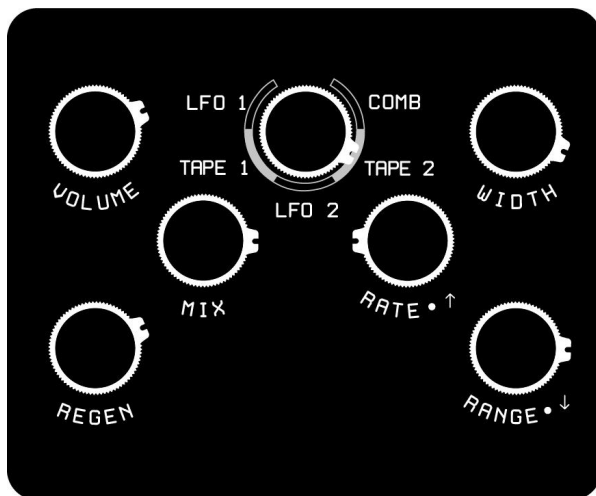


## Down Sweep Flange

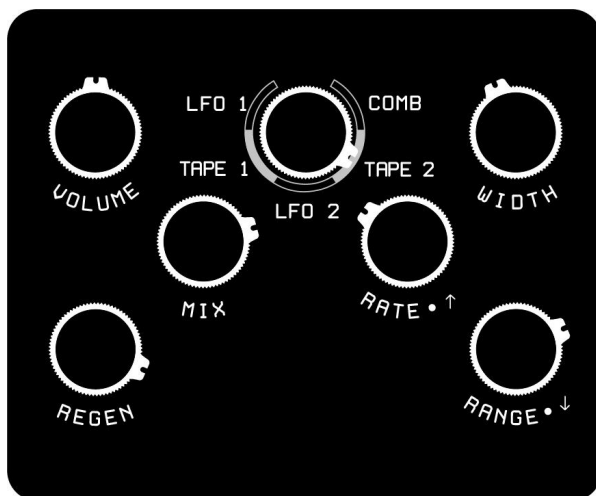


## Woozy

# Aurora Suggested Settings

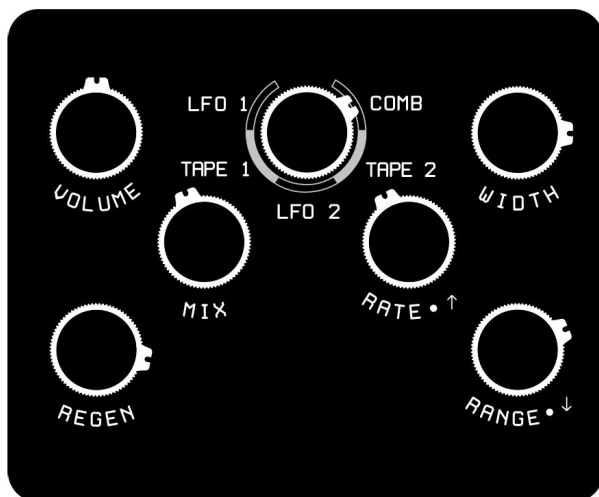


## Asymmetric Tape Flange



## Jangle Canyon

# Aurora Suggested Settings



## Jet Fuel