CANVAS
VOLUME

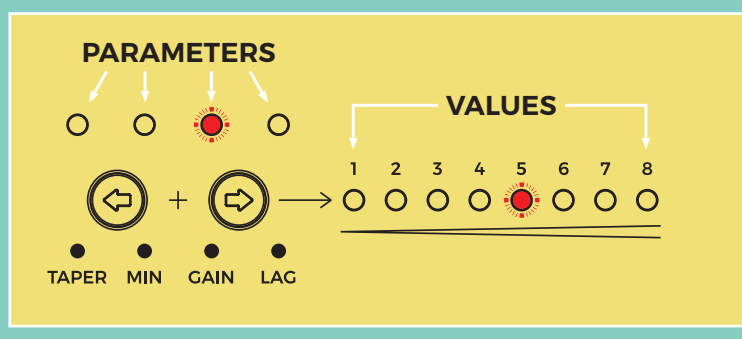
Thank you for choosing the Canvas Volume for your loudest (or softest) volume output needs! There are no strings, pots, or gears to wear out, get scratchy, or fail mid-set, so hit those volume swells with confidence. Take a peek at the controls under the treadle (foot pedal) and begin to shape the feel and response of Canvas Volume to fit your playing style.

Got questions or need a repair?
Email help@walrusaudio.com to talk with a real live human about your Walrus gear!

This product comes with a limited lifetime warranty.
Click Here for more info.

CONTROLS

The user interface on Canvas Volume is tucked up under the heel of the pedal. There are two buttons (arrow denotes direction) with four parameter LEDs above them. These four LEDs indicate which parameter is currently selected and can be edited. The four parameters are TAPER, MINIMUM ON, GAIN, and LAG. Each parameter has eight possible settings indicated by the eight value LEDs to the right of the buttons.



To edit a parameter:

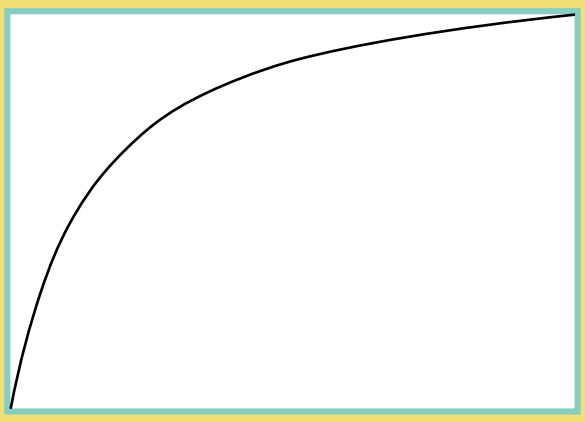
1. Press the right or left buttons to select the desired parameter. As you move through the parameters, the current setting for each is displayed with the value LEDs.

2. To increase the value of the selected parameter, press and hold the left button while clicking the right button.

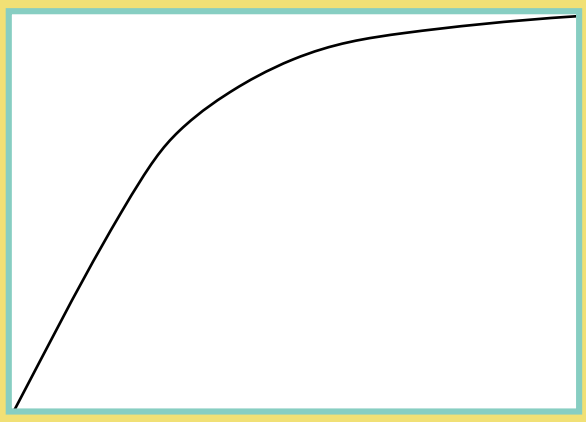
3. To decrease the value, press and hold the right button while clicking the left button.

TAPER

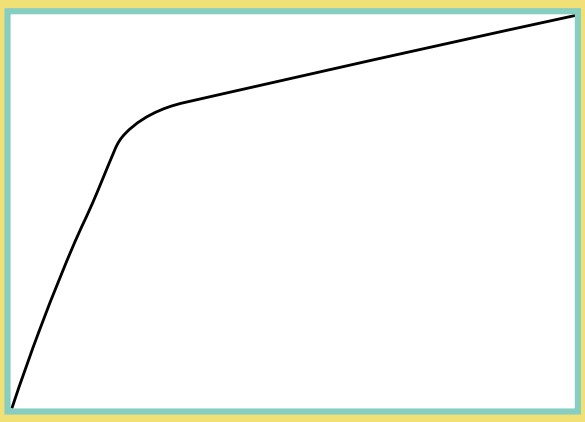
The taper of a volume pedal refers to the curve of how your signal level changes through the sweep of the pedal. This is the most important parameter to dial in the “feel” of how the volume changes as you move the pedal. There are eight tapers to choose from on Canvas Volume. Each taper is a model of a real-world volume pedal and provides a different response from the pedal sweep. Taper 1 is custom-designed specifically for the Canvas Volume, aiming to provide an ultra-smooth response for guitar players. Tapers 2-6 provide more traditional audio tapers modeled after popular volume pedals. Tapers 7 and 8 feature models from pedals with a more linear response favored by pedal steel players:



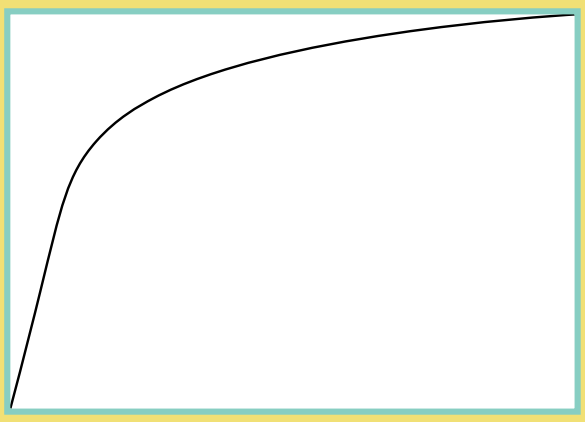
TAPER 1
Canvas Taper



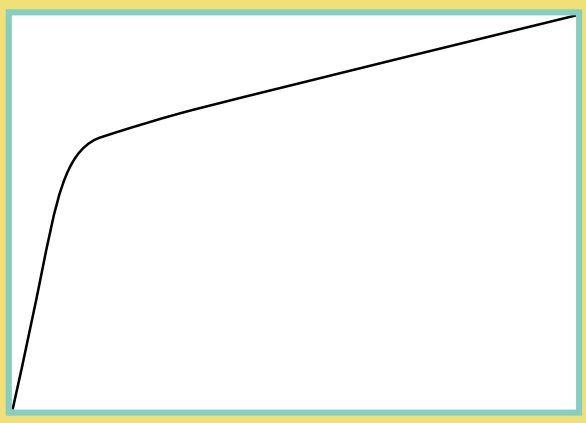
TAPER 2
Lehle® Model



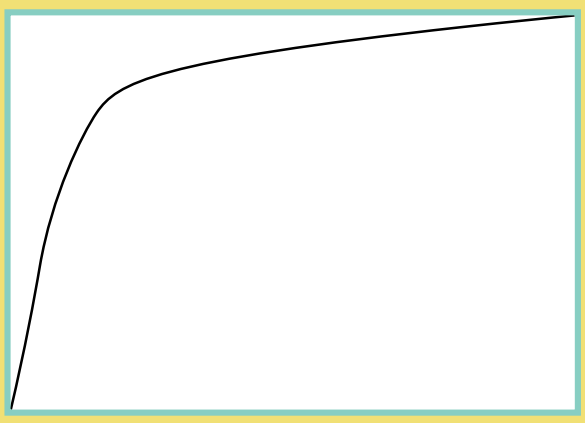
TAPER 3
Boss® Model



TAPER 4
Dunlop® Model

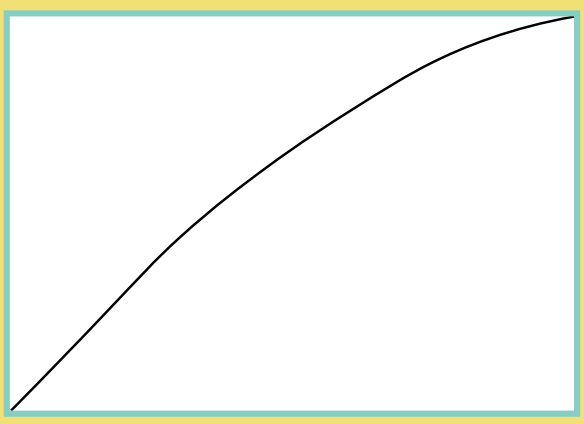


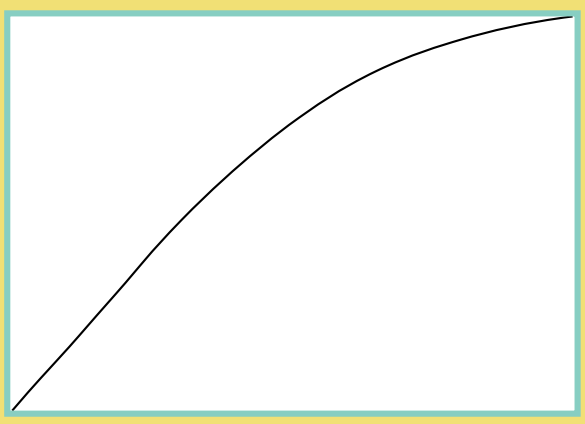
TAPER 5
Ernie Ball® VP Jr Model



TAPER 6
Hotone® Model

TAPER 7
Hilton® Model





TAPER 8
Goodrich® Model

MINIMUM ON
By default, this parameter is set to its lowest setting, offering the highest level of attenuation at heel down, about -90dB. As you increase this setting, you reduce the maximum level of attenuation, therefore raising the volume and letting some signal still pass through at heel down. Increasing this setting means you will get to a louder signal quicker as you start to move the pedal, since you will be starting from a place of less attenuation.

GAIN
This parameter sets the volume when the pedal is in the toe-down position. By default, it is set to Position 5, which is unity gain (0dB).

- Settings lower than 5 will cause the maximum volume to be lower than unity when at toe down
- Settings above 5 raise the maximum volume at toe down, in 3dB increments, up to +9dB at Position 8.

Tech Tip: Decreasing gain is useful when your input signal is too loud for the rest of your signal chain, causing distortion or other issues. Increasing gain is useful if you want to boost lower signals above unity gain.

LAG
The Lag parameter enables the user to introduce a delay to the volume response of the pedal, thereby further smoothing the overall feel and sound when using the pedal. By default, it is set to Position 1, which is the fastest response time. At Position 8, the volume response is delayed by 2000ms behind the actual pedal position, creating a smooth lag effect when increasing or decreasing your signal level. This can be used creatively for things like auto volume swells and interesting “envelope effects.”

SIGNAL ROUTING

Canvas Volume offers different signal routing options to best fit the needs of your particular application and desired signal flow:

Mono In, Mono Out, Tuner Out: Connect your instrument to the IN L jack, your amp to the OUT L jack, and your tuner to the Tuner jack. The Tuner Out is a buffered signal held at full volume to send to a tuner.

Stereo In, Stereo Out: Connect your left and right input signals to the IN L and IN R jacks, respectively. Connect your next stereo device’s inputs to the OUT L and OUT R jacks for full stereo signal path volume control.

Mono In, Dual Mono Out: Use this mode to split your signal to send to two different sources or to start a stereo effects chain. Connect your instrument to the IN L jack, and that signal will be present on both the OUT L and OUT R jacks with volume control applied to both. To learn how to configure the pedal for this mode, see the Utility Menu section.

UTILITY MENU

To enter the Utility Menu, press and hold both buttons upon powering up the unit and release when all 8 value LEDs light up a single color. The four parameter LEDs indicate four different utility functions that can be performed. Press the left and right buttons to scroll and select the utility function you would like to perform.

Factory Reset - Purple

To perform a factory reset, enter the Utility Menu, scroll to the purple LED and press and hold the left button until the purple LEDs start to blink, then release. The pedal will reboot with all settings put back to their factory defaults. **Note: Anytime a factory reset is performed, the pedal will need to be recalibrated.**

Sensor Calibration - Red

To calibrate the pedal position sensor, enter the Utility Menu, scroll to the red LED, and press and hold the left button until the red LEDs begin to blink, then release. On a stable surface, gently sweep the pedal between full heel down and full toe down position two to three times. Then long-press the left button until the LEDs begin to flash. The pedal will then reboot and use the newly saved calibration.

Mono Mode - Yellow

By default, the right output jack is held at unity gain volume and serves as a tuner out when the pedal is connected in a mono configuration. To change the behavior of the right output jack in a mono configuration, enter the Utility Menu and scroll to the yellow LED. The first and second value LEDs indicate which mode it is currently in.

Value 1: OUT R (Right Out) = Tuner Out when configured in Mono.

Value 2: OUT R (Right Out) = Dual Mono Out when configured in Mono.

Use the left and right buttons to move the LED to the desired mode. Once the selection has been made, the LEDs will flash, and the pedal will reboot and use the newly selected mono mode when connected in a mono configuration.

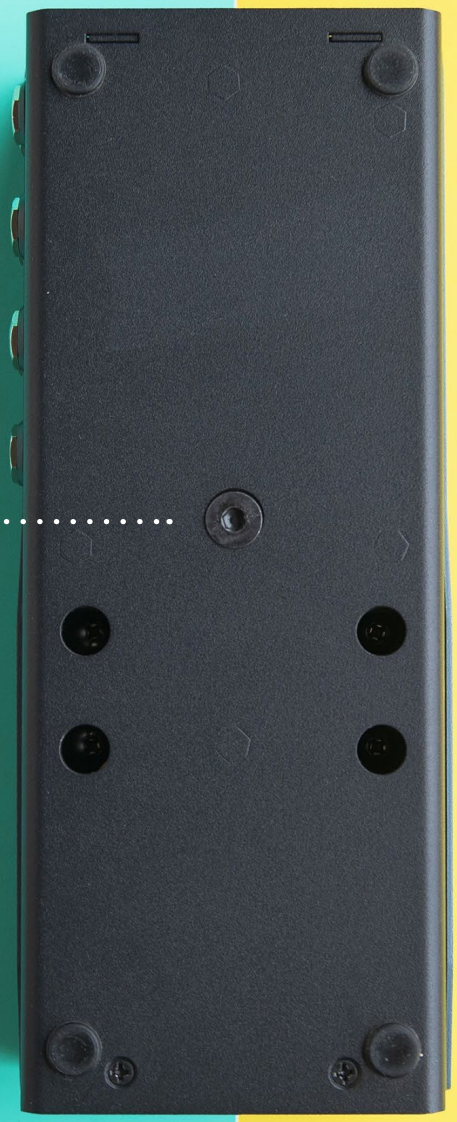
DFU - Blue

To enter DFU mode, enter the Utility Menu, scroll to the blue LED and press and hold the left button until the blue LEDs start to blink, then release. The pedal is now booted into DFU mode.

Note: **Entering DFU mode should only be done if instructed by Walrus Audio customer support.** If this is done by accident, simply disconnect and reapply power to the pedal, and it will boot up for normal operation.

DRAG ADJUSTMENT

Canvas Volume allows you to adjust the tension, or drag, of the treadle to increase or decrease the friction you feel when moving the pedal. To adjust the drag, locate the 4mm hex screw on the bottom of the pedal. Using a 4mm Allen wrench, turn the screw clockwise to increase drag and counterclockwise to decrease drag. When making these adjustments, only turn the drag adjustment screw in half-turn increments.



SPECS

Input Impedance: 1M Ω

Output Impedance: 330 Ω

Frequency Response: 20Hz to 20kHz

Inputs: 2, 1/4” unbalanced TS

Outputs: 2, 1/4” unbalanced TS

USB-C: For firmware updates via walrusaudio.io

Power Requirement: Isolated 9VDC, center-negative, 300mA minimum

Size:
Height: 1.9” / 48mm
Width: 3.6” / 91mm
Depth: 8.9” / 225mm

Weight: 2.2 lbs

WALRUSAUDIO.IO

Walrusaudio.io is a simple interface to update your pedal’s firmware.

Connecting a USB-C cable to your Canvas Volume allows you to access firmware updates using your computer with a Chrome-based web browser.

Click the Canvas logo to display the firmware version currently installed on your pedal. Follow the on-screen instructions to begin the update process.