

## Liquid Sunshine – Trim pot jfet bias.

The Liquid Sunshine uses multiple jfet transistors as amplifiers to produce a nice tube like gain. Much like tubes they must be biased for optimal performance. There are two trim pots in your Liquid Sunshine used to bias the two jfets which create most of the gain.

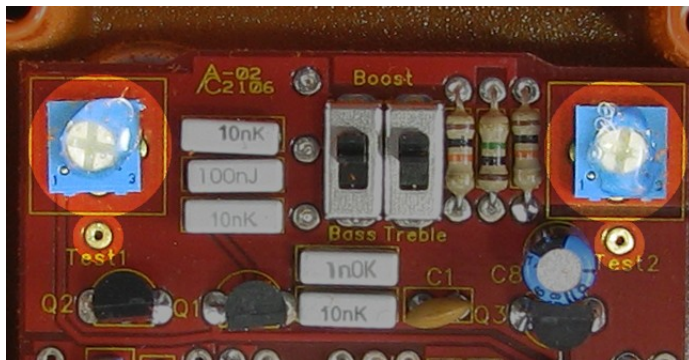
Most newer model's trim pots are sealed with a small amount of glue to prevent tampering, but older versions were not. If you purchased your Liquid Sunshine used and suspect a previous owner has fiddled with the trim pots, this document will explain how to restore your pedal to factory settings.

### What you will need:

- A reliable power supply (output should be 9.6 volts)
- A digital multimeter
- A micro screwdriver

### What to do:

First, open up your Liquid Sunshine and take a look inside. For all Liquid Sunshines made after 2006 you should see a red circuit board with two trim pots in the upper corners and a test point below each. Highlighted in picture below.



Second, plug the power supply in to the pedal. (some versions of the Liquid Sunshine will also need to have the input jack plugged in to power up.)

Set your digital multimeter to measure DC voltage.

Place the black lead of the digital multimeter at a ground point. Using the screw holes that hold on the back plate usually works well. It may take some pressure to ensure proper electrical contact.

Place the red lead of the digital multimeter on one of the test points.

Use the micro screwdriver to adjust the trim pot until the voltage is between 4.75 and 5 volts.

Repeat the process for the other trim pot.

**If you have other questions or are having problems biasing your Liquid Sunshine please contact us through our website. Select the support option on our contact form.  
[www.subdecay.com](http://www.subdecay.com)**