



**WL-0002 "LOTEK"**  
**TECHNICAL MANUAL**

# LOTEK

user guide + reference documentation



Lotek is a two-stage distortion effect based on a popular circuit. A salvaged infrared LED is used instead of a normal LED or schottkey diode in the second clipping stage. The input is switchable between the input jack and a contact microphone inside the pedal enclosure, directly below a strip of 60 grit sandpaper.

## SPECIFICATIONS

- 1590BB-style enclosure in “cast iron” finish
- true bypass 3PDT
- uses 9v **CENTER NEGATIVE** power supply, One-Spot or similar
- two-stage discrete transistor distortion effect
- contact mic or input jack, switchable
- standard volume, tone, gain controls
- internal status LEDs behind mesh
- stencil-painted 60 grit sandpaper affixed above contact mic
- very loud



## CONTROLS

- **GAIN**  
overall gain of transistor distortion. higher values very “Velcro-y”
- **VOLUME**  
output volume. surprisingly uncomplicated.
- **FILTER**  
passive low-pass filter. left = low, right = high. good for taming the contact mic at higher gain.

- **MODE**

switch to toggle between input jack audio source or contact mic audio source.

## TIPS AND TRICKS

- at higher gain, the contact mic can produce **microphonic** feedback. this can be sort of controlled with the sandpaper. experiment.
- the sandpaper works best with harsh objects. try: flat files, screwdrivers, screws, nails, barbed wire, etc. note that it'll probably dull the tool but it'll be worth it.
- the volume control on guitars is helpful for getting more subdued overdrive sounds. that's not exactly what it's made for, however.

## CONTACT + SUPPORT

Please do not hesitate to reach out to us with questions, comments, repair requests, returns, parables, assembly opcodes, and general support. You can reach us via:

EMAIL - [wildfirelaboratories@gmail.com](mailto:wildfirelaboratories@gmail.com)

INSTAGRAM - [instagram.com/wildfire\\_laboratories](https://www.instagram.com/wildfire_laboratories)

WEBSITE - [wildfirelaboratories.com](http://wildfirelaboratories.com)

## RETURN + WARRANTY INFO

All Wildfire Laboratories devices have a 5-month warranty from time of purchase. This covers manufacturing + assembly issues. **Incorrect power connections (power supplies with wrong polarity, too much power, etc), wear and tear from normal use, and issues due to modifications** are not covered by said Warranty (although you should absolutely email us with any mods you do).

We will repair, replace, or refund depending on the circumstances. Shipping will be paid by the buyer.

*Thank you for your support, and as always, Wildfire wishes you an easy listening.*