

Feedback Organ Manual

Hello and thank you for supporting Magpie Pedals by getting a Feedback Organ!

It works on a single 9V battery (not included) or with a 9V(DC) center negative power supply (2.1mm).



Feedback Organ also comes with a 15mm (5m long) tube that you get to cut yourself (shipped separately).

1. Info:

The feedback organ is the result of some of my wild experiments with no input techniques and talk boxes that I have performed over on youtube. The idea is simply to try and tame the sounds of connecting a microphone to an amplifier and pointing it at the speaker.

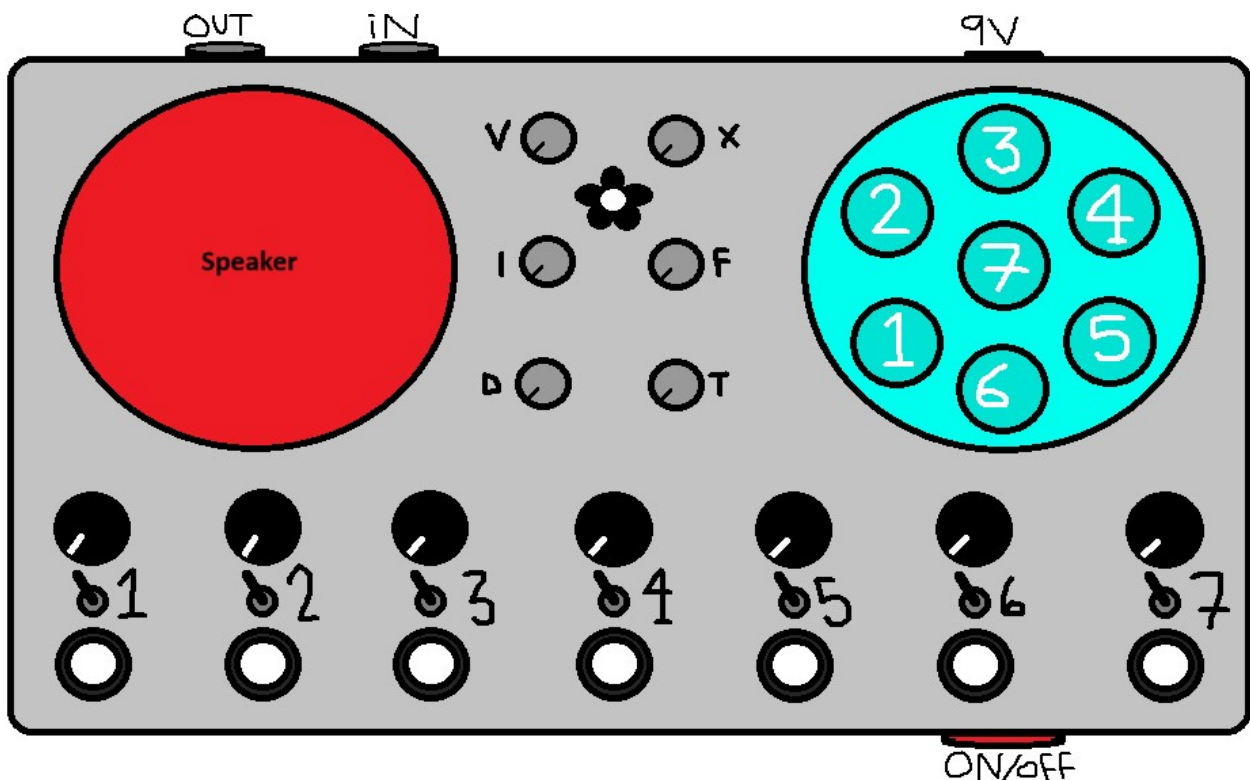
I decided to make a very visual design with two 3D printed covers full of holes. These holes are on the one side covering a 2W speaker, and on the other side covering individual microphones. Meaning that you simply connect a microphone to the speaker with a tube of preferred length and then play around with the feedback.

Each microphone has its own volume knob and button+switch to either play (kinda lika a keyboard) or latch.

Furthermore I decided to also implement electronic feedback loops in the circuit together with a classic PT2399 delay and drive circuit for the speaker. Even with a dedicated external input where you can play whatever you want into your feedback organ and completely destroy that signal through pvc tubes.

2. Controls:

Each button is a momentary connection for a corresponding microphone hole, and the switches are latching connectors. Above each button/switch there is a dedicated volume knob per microphone. The layout goes like this:



Grey Knobs:

V: Output Volume. Happens before the delay circuit. Meaning that it will also have an effect on "I" that is routed after the delay circuit.

I: Internal feedback knob. Think of it as one of the bottom volume knobs, but for the entire instrument. Sending the output signal back into itself. So expect it to just go completely wild! This also makes the delay

go to the speaker and echo through the tubes.

D: Drive knob. This knob overdrives the speaker circuit. Make it scream!

X: Delay Mix knob. From 100% dry feedback loops, to introducing delay, to slight overdriving of the delay lines.

F: Delay Repeats/Feedback knob. Since the feedback organ already has the possibility to self oscillate. This knob is for the feels.

T: Delay Time knob. Counter clockwise for shorter delay times and clockwise for longer delay times. It gives new dimensions to move in time while everything is echoed out through the speaker and back into the delay and back out through the speaker again. Feedback inception.

Input Jack: Lets you input an external signal into your feedback organ. Goes directly into the part of the circuit that drives the speaker. And after that moves on through the rest of the circuit.